



MARCH 26-29, 2012 • MGM GRAND • LAS VEGAS, NV

Take the Journey into 2012 with Microsoft and Industry Experts as New Technologies & Products Release

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DevConnections and Microsoft will team up to deliver the DevConnections conference at MGM Grand in Las Vegas, Nevada

KEYNOTES



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MICROSOFT
CORPORATE VICE PRESIDENT, SERVER & TOOLS BUSINESS



SHAWN BICE
MICROSOFT
DIRECTOR OF PROGRAM MANAGEMENT OF THE DATABASE SYSTEMS GROUP



STEVE FOX
MICROSOFT
DIRECTOR, MICROSOFT CONSULTING SERVICES



SCOTT HANSELMANN
MICROSOFT
PRINCIPAL COMMUNITY ARCHITECT FOR WEB PLATFORM AND TOOLS

Check online for speaker bios and additional keynotes to be announced.



BONUS:

We are excited to host one of the SQL Server 2012 Launch events!

2012 LAUNCH CONFERENCE AND EXPO

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Make CONNECTIONS the CONFERENCE you bring your whole team to this year!

For over 10 years, DevConnections and Microsoft have collaborated to bring you the premiere developer and IT events in our industry.

SCHEDULE AT A GLANCE

SUNDAY, MARCH 25, 2012

9:00am - 4:00 pm Pre-Pre-conference Workshops

MONDAY, MARCH 26, 2012

7:30 am Registration Opens

9:00am - 4:00 pm Pre-conference Workshops

6:30pm - 8:30pm Keynotes

TUESDAY, MARCH 27, 2012

7:00 am - 5:00 pm Conference Registration

7:30 am - 8:30 am Continental Breakfast

8:30 am - 10:00 am Keynote

11:00 am - 12:15 pm Conference Sessions

12:15 pm - 1:45 pm Lunch

1:45 pm - 6:15 pm Conference Sessions

6:15 pm - 7:45 pm Expo Hall Reception

8:00 pm - 10:00 pm Special Evening Events

WEDNESDAY, MARCH 28, 2012

7:00 am - 5:00 pm Conference Registration

7:00 am - 8:00 am Continental Breakfast

8:00 am - 9:15 am Keynote

10:15 am - 1:00 pm Conference Sessions

1:00 pm - 2:30 pm Lunch

2:30 pm - 5:15 pm Conference Sessions

5:30 pm - 6:30 pm Vendor Sessions

7:00 pm - 10:00 pm Open Spaces at Connections

THURSDAY, MARCH 29, 2012

7:00 am - 8:00 am Continental Breakfast

8:00 am - 1:00 pm Conference Sessions

1:00 pm - 2:30 pm Lunch

2:15 pm Cruise Raffle

2:30 pm - 3:30 pm Conference Sessions

4:00 pm - 4:30 pm Closing Session & Prize Drawing

FRIDAY, MARCH 30, 2012

9:00 am - 4:00 pm Post-conference Workshops

KEYNOTES



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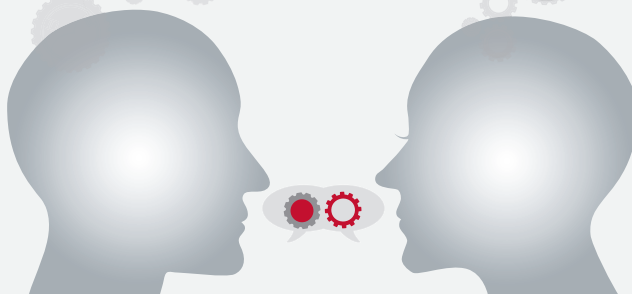
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PLATFORM AND TOOLS

THE CONVERSATION BEGINS HERE

QUESTIONS ANSWERED
STRATEGY DEFINED
RELATIONSHIPS BUILT



Conference
Highlights!

- Celebrate ten years of INETA and Microsoft building our community
- Find new products and services in our partner expo hall
- Learn the strategies for building successful applications at keynotes, panels and technical sessions
- Train with 150+ Microsoft & industry experts
- Over 250 In-depth sessions
- Exciting networking party opportunities

Take the Journey into 2012 with Microsoft and Industry Experts as New Technologies and Products Release

The Journey starts here, March 26 at MGM Grand, with Microsoft and Industry Experts as we enter a new era for developing applications. SQL Server Connections is one of the premiere launch events this season for Microsoft SQL Server 2012. Plus, Visual Studio Connections will be one of the first opportunities developers will have to learn more about the next version of Visual Studio.

Our March Connections conference is one of the premiere SQL Server 2012 launch events. We'll have almost twice as many SQL Server sessions. If your team members include SQL Server DBAs, SQL Server system architects, SQL Server technical decision makers, BI information workers or SQL/BI developers, you and your team should attend this conference.

The buzz for the next version of Visual Studio will be building throughout 2012 as Microsoft readies the next release of Windows. You can bet that the next version of Visual Studio will help developers build Metro style apps using technologies such as HTML5 and JavaScript. You will learn from Microsoft and industry experts how to build Metro style apps, how corporations can move to the cloud (entirely or with a hybrid scenario) with Windows Azure, plus learn about technologies you'll use in the future including WinRT, asynchronous programming, Kinect, and find out enhancements coming for Visual C# 5 and Visual Basic 11, and more. You will keep your competitive edge and be among the first developers who will learn more about the next version of Visual Studio at the March conference. This event will offer an experience to remember with in-depth content during the day and parties in the evening featuring the dev cook off, the INETA 10-year celebration party, Open Spaces sessions, panel and Q&A sessions and an opportunity to win a cruise.

Compare us to other events. We have more sessions and industry experts, and you can attend co-located sessions at no extra charge. This is why Connections is your best choice. Take advantage of this opportunity to get the insider's scoop with the launch of Microsoft SQL Server 2012, plus see how programming will change for the next several years with the next releases of Windows and Visual Studio. Your journey to new technologies and products starts at DevConnections.

Enter the contest in the Expo Hall
to WIN a 1 week
Caribbean Cruise for two!



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ASP.NET, Silverlight & HTML5 Sessions

KEYNOTE SESSION

KEYNOTE: VISUAL STUDIO DEVELOPER PREVIEW: DEEP INSIDE THE WEB STACK OF LOVE

SCOTT HANSELMAN

Building web applications on the Microsoft stack continues to evolve. There's lots of great tools to leverage but it can be difficult to keep up with all the options. We'll look at ASP.NET MVC 3 and 4, MvcScaffolding, Entity Framework Code First (Magic Unicorn Edition), mobile development, HTML5, NuGet, jQuery, the next version of Visual Studio and more. You'll leave this session with a clear understanding of the technology options available on the Microsoft Web Stack. What direction is the web stack going? Does it snap together like LEGO? Let's see what you can build TODAY and tomorrow on the Microsoft Web Platform.

SESSIONS PRESENTED BY TEAMS FROM MICROSOFT

AMS04: ASP.NET 4.5 LOVES HTML5, CSS3, AND JAVASCRIPT

MATTHEW OSBORN

AMS02: BIGGER, FASTER, STRONGER: OPTIMIZING ASP.NET 4 AND 4.5 APPLICATIONS

MADS KRISTENSEN

AMS01: HIDDEN TIPS & TRICKS ANY WEB DEVELOPER MUST KNOW ABOUT ASP.NET AND VISUAL STUDIO

MADS KRISTENSEN

AMS03: NUGET: ADD REFERENCE | AWESOME

MATTHEW OSBORN

AMS06: OCCAM'S "RAZOR" - INSIDE THE ASP.NET RAZOR SYNTAX

SCOTT HUNTER

AMS05: PRACTICAL WEB FORMS 4.5: REPORTS OF MY DEATH ARE GREATLY EXAGGERATED

SCOTT HUNTER

AMS07: USING ASP.NET MVC 4, WEB API, JQUERY MOBILE TO CREATE AN ENGAGING WEB APP TARGETING MODERN TABLETS AND MOBILES

SCOTT HANSELMAN

AMS08: IIS EXPRESS: PRESENT AND FUTURE

ROBERT MCMURRAY

Sessions will be added and updated that are currently under wraps. Check the website for final session titles, abstracts and speakers.

WEB FORMS AND CONTROLS

AFR201: WEB FORMS GETS MODEL BINDING PAUL LITWIN

The use of the Data Source control, introduced back in ASP.NET 2.0, is certainly workable, but it sure seems like the data binding story in ASP.NET MVC is easier. Fortunately, ASP.NET Web Forms adds a MVC-style model binding to its repertoire with the upcoming version 4.5 release of ASP.NET. Come to this session to learn how this new form of data binding works and how best to take advantage of it to make your Web Forms application development experience more efficient.

WEB SERVICES

AWS201: EXPOSING RESTFUL ENDPOINTS USING WEB API

JOEL NEUBECK

Applications are evolving. It's common to have a single application that will have clients that live on the web, a mobile device as well as on our desktop. Exposing your applications functionality to the web doesn't have to be difficult. In this session we will learn how use the WCF Web API to expose your applications data and services over HTTP. We will build web-friendly endpoints, using RESTful constraints that make consuming your data simple and extremely flexible.

PERFORMANCE AND SCALABILITY

APF202: LIGHTNING FAST ASP.NET WEB SITES CHRISTIAN WENZ

A website that loads and responds quickly has many potential benefits: higher conversion rates, a better rank in search engines, and less bandwidth being used. This session will discuss and demonstrate several techniques that can be used to make a website faster: asynchronous loading of script code, optimal usage of concurrent connections, various ways to compact data to decrease the required bandwidth, code optimizations, and much more. We will also have a look at how ASP.NET can help to speed up a website using the techniques shown, including built-in features and third-party software.

APF201: TEN WEB PERFORMANCE TUNING TRICKS IN 75 MINUTES

RICHARD CAMPBELL

Join Richard Campbell as he opens up his web performance tuning toolkit and walks you through ten different techniques for im-

proving web performance, rating each by difficulty, risk and reward. You'll learn about a variety of techniques for reducing payload size, latency, server and client compute times. Some techniques are easy, like utilizing compression, and some are complex, like implementing MHTML. But each technique has the potential for improving the performance of your website - and Richard will talk about the cost of that performance as well as the benefit. Have you plucked all the low hanging performance tuning fruit on your website? Don't miss this session!

MVC FRAMEWORK

AMV201: ASP.NET MVC 3 IN 75 MINUTES

PAUL LITWIN

Are you trying to come up to ASP.NET MVC in a hurry? The session will begin with a brief introduction to ASP.NET MVC 3. During the remainder of the session, Paul will present a series of step-by-step demos, building a data-driven ASP.NET application utilizing the Razor View Engine, LINQ and the Entity Framework. The demos will cover creation of a data model with Entity Framework 4.1, the population of select controls, the incorporation of input validation, unobtrusive JavaScript, jQuery, remote validation and more.

AMV203: ASP.NET MVC 4: FROM THE GROUND TO THE CLOUDS

JOHN V. PETERSEN

In it's 4th major release, ASP.NET MVC continues to improve, solidifying it's position as a best of breed development tool. New features in ASP.NET MVC 4 include: default project enhancements, jQuery Mobile integration, Azure integration, and many more. This session introduces you to the major features in MVC, with focus on what's new in version 4. By the end of this session, you will have a comprehensive overview of ASP.NET MVC's capabilities so that you can add it to your developer toolbox.

AMV204: ASP.NET MVC VALIDATION IN-DEPTH STEPHEN WALTHER

ASP.NET MVC provides you with several different options for validating form data before submitting the data to a database. In this session, Stephen Walther discusses these different options and provides recommendations on when it makes sense to use each approach. In particular, he discusses the difference between View Model Validation and Domain Model Validation. He demonstrates how you can perform validation in both the presentation layer and the domain layer.

AMV302: BUILDING ENTERPRISE ASP.NET MVC APPLICATIONS

STEPHEN WALTHER

In this session, Stephen Walther discusses how you can structure larger ASP.NET MVC applications in such a way that they can be more easily maintained over time. In particular, he discusses the FOUR LAYER ARCHITECTURAL pattern and how to apply this pattern to ASP.NET MVC applications. You learn how to divide an ASP.NET MVC application into Presentation, Service, Domain, and Infrastructure layers and the type of logic appropriate to each layer.

AMV301: EXTENDING ORCHARD THROUGH BUILDING CUSTOM MODULES

JOEL NEUBECK

Orchard is a simple to use, free, open source .NET-based CMS application that allow users to rapidly create content-driven websites. Its extensibility allows developers the ability to easily customize these applications through the development of custom MVC modules and Themes. In this session we will learn how to build one of these MVC Area-based modules that is packaged into a clean reusable component you can use in other Orchard sites. We will explore the module structure as well as how a module taps into routing, security and the content pipeline.

AMV401: MVC EXTENSIBILITY FOR CODE REUSE

KATHLEEN DOLLARD

ASP.NET MVC offers a fantastic extensibility model that you can leverage for reuse code across different websites, as well as better organizing complex websites. You'll learn how to use dependency injection (DI) to componentize tasks following single responsibility principle for more robust and testable applications. You'll see custom model binders, value providers, validators, and filters. You'll see these techniques used to pull almost all code out of the website project, giving you full flexibility in how you organize your website's code. You'll also see generic base classes that allow extensive reuse of controller logic and reuse of page elements. You'll leave this session armed to battle against the chaos that can creep in as the complexity of your website, or multiple websites within your organization, increases.

AMV202: WHY CODE FROM SCRATCH WHEN YOU CAN SCAFFOLD?

PAUL LITWIN

Steve Sanderson and Microsoft have created an amazing NuGet package called MVC Scaffolding. This package with a very unassuming name is packed with features to help you develop ASP.NET MVC applications rapidly. This session will get you started using MVC Scaffolding with a series of demos that illustrate the scaffolding controllers, views, data models, tests, and lots more. During this session, you'll learn how to scaffold various parts of your MVC apps, change scaffolding defaults, and even modify the scaffolding templates used by MVC Scaffolding.

XAML

CXA301: BUILDING AN MVVM FRAMEWORK IN AN HOUR

CHRIS KLUG

There are lots of really good MVVM-frameworks available and most of them will get you up and running with MVVM quickly. Have you ever considered what they do? Or maybe run into a client who says no to external libraries? Have you ever wondered what part of the functionality is available "out of the box" with your technology, and what part of it is handled by the framework? In this session, Chris Klug will build a simple yet very functional MVVM-framework which offers lots of features you expect from an MVVM framework. It is not intended to replace MVVM Light or Caliburn, but looking at the inner workings of a framework explains a lot about the pattern and technology you are working with. Re-inventing the wheel offers very little business value, but often a lot of experience. Letting someone else do it, while you watch, gives you a lot of that experience without wasting billable hours.

CXA302: BUILDING CUSTOM CONTROLS IN SILVERLIGHT

CHRIS KLUG

Most of the functionality we need when building applications in Silverlight are met by the built-in controls. There are, however, times when building your own control can help, or is required. Understanding how to do this correctly will cut the time required to do this into a fraction. In this session, Chris Klug, a Silverlight MVP from Sweden, will explain the "inner workings" of how to create a custom control. Everything from defining a template and using the Visual State

ASP.NET, Silverlight & HTML5 Sessions

Manager, to what attributes should be used to get extra support in Expression Blend.

CXA401: BUILDING EXTENSIBLE XAML CLIENT APPS

BRIAN NOYES

Designing an extensible XAML client application with WPF, Silverlight and Metro involves a lot more than just knowing how to load a plug-in interface to invoke some functionality. You need to be able to add whole new sets of functionality including a data model, logic, and views for presentation. And if you do it right, you should be able to do all that without disturbing or even changing any of the core application logic or other views. This session will show you how you can achieve that with a combination of the Managed Extensibility Framework (MEF), the MVVM design pattern, and a little bit of help from the Prism Framework. You will learn how to set up a little bit of base class infrastructure in the core application that can then be easily built upon with extensions. You'll see how you can plug in views and view models and model objects and still have those integrated with existing parts of the application they are plugged into, but in a loosely coupled way. You'll walk away with a baseline architecture and sample code for achieving it that will let you grow and extend your WPF and Silverlight client apps over time without needing to constantly crack open the core code and do surgery to add new features. You'll also see what the path to building similar applications in Metro looks like.

CXA201: DEVELOPER/DESIGNER WORK FLOW - A PRODUCTIVITY UTOPIA?

CHRIS KLUG

Imagine a world where developers and designers can work together. A world where the developer can focus on the code and functionality, without caring too much about the UX end of things, and the designer can focus on getting the user experience perfect. A world where these two can easily combine both of their talents and creativity into a great application. Utopia you might say. It is possible says Chris Klug, a Silverlight MVP with a passion for design. He will even tell you that he can get them working like this in parallel, getting the application done faster. During the session, Chris will share his

ASP.NET, Silverlight & HTML5 Sessions

thoughts and experiences on how we can bring this kind of work flow into your office.

JQUERY

CJQ201: USING JQUERY TO INTERACT WITH THE SERVER THROUGH AJAX

STEPHEN WALTHER

In this session we'll compare three alternatives to retrieving data from the server. You learn how to use jQuery to interact with ASP.NET MVC controller actions, WCF Services, and WCF Data Services. You learn about the alternative methods of serializing and de-serializing data into JSON provided by each approach. We also tackle the tricky problem of passing dates and times across the wire in JSON.

CLIENT SIDE

ACS301: BUILDING YOUR FIRST JQUERY PLUG-IN

JOHN V. PETERSEN

If you are writing web applications, at one point or another, you have needed to rely on JavaScript and jQuery. jQuery's extensibility model is predicated on plug-ins, and while there are thousands to choose from today, you may very well find yourself in a position where you will want to write your own plug-in. You may also find you have the need to extend an existing plug-in. jQuery plugins are a great way to achieve reusable/testable JavaScript code. In this session, John teaches you the essentials of building your own jQuery plug-ins.

ACS203: DOING MORE WITH LESS FOR CSS

TODD ANGLIN

As CSS3 adds support for rich styling in standards-based web applications, style sheet markup can quickly get out of control! Many CSS effects today require repetitive rules to cover the proprietary browser CSS prefixes. LESS for CSS is an open source framework that makes modern CSS more manageable. With support for variables, mix-ins, nested CSS rules, and operations, LESS finally makes complex CSS easy to maintain. In this session, you will discover how LESS can be easily adopted in any ASP.NET project and learn about tools that make it easy to work with LESS in Visual Studio 2010.

ACS202: JAVASCRIPT TESTING

JOHN V. PETERSEN

This session focuses on how to employ testing principles in your JavaScript code. In this session, John will review the basics of the three A's of testing: Arrange, Act and Assert, and how they can apply to JavaScript tests. John will introduce attendees to the QUnit testing framework which is maintained and used by the jQuery team. John will work from practical examples of untestable code that are refactored toward a SOLID testable foundation.

ACS201: JSONRESULT AND JQUERY AJAX: AN UNSTOPPABLE COMBINATION

JOEL NEUBECK

In this session we will learn how to design MVC3 sites that expose JSON to jQuery. Through smart use of jQuery it's easy for developers to enhance a user experience by leveraging the power of Ajax. Learn how to asynchronously validate control values, refresh content and improve a page's performance by combining JsonResult and a simple AJAX call.

ACS302: USING THE MVVM PATTERN WITH JAVASCRIPT VIEWS

STEPHEN WALTHER

In this session, you learn how to take advantage of the Model-View-ViewModel (MVVM) pattern when building client-side views. You learn how to implement the MVVM pattern by leveraging the open-source jQuery library, KnockoutJS library, and jQuery Templates library. You learn how to use the KnockoutJS library to create observable objects and bind a view to a view model. You learn how to use jQuery Templates in combination with KnockoutJS to display an observable in a view.

HTML5

CHT201: DEVELOPING AN HTML5/JQUERY APPLICATION - END TO END

DAN WAHLIN

HTML5 is all the rage these days but where do you look to find robust examples of using it along with jQuery, jQuery templates, AJAX calls, data access technologies, and more? In this session, Dan Wahlin will walk through an application called Account at a Glance that demonstrates how key HTML5 technologies can be integrated and used to present data to users in different ways. Topics covered include exposing data to the client using Entity Framework Code First and RESTful

services, using jQuery templates to render data, JavaScript techniques for structuring code, the role of HTML5 semantic tags, as well as how technologies such as the canvas, SVG, and video can be used. If you want to learn HTML5 techniques and strategies from a real app, then this session is for you.

CHT301: HTML5 FOR BUSINESS: FORMS AND INPUT VALIDATION

TODD ANGLIN

Most talk about HTML5 generally revolves around the fun and exciting technologies like geolocation, video, and the powerful styling CSS3 brings to the party. But how useful is HTML5 for business apps? HTML5 promises a number of new features in browsers that will make data entry and validation easier for developers and end-users. In this session, you will learn how HTML5 is helping business developers simplify working with data and input validation, and see practical techniques for leveraging these features across all browsers, old and new. You will learn:

- How to use HTML5 Forms and input validation
- Techniques for bridging the gap to older browsers that lack HTML5
- How to customize the default browser HTML5 Forms experience

PANELO1: BUILDING WEB APPS IN 2012: WEB FORM VS. MVC VS. SINGLE-PAGE JS APP

PAUL LITWIN, STEPHEN WALTHER, DAN WAHLIN, JOEL NEUBECK, TODD ANGLIN, CHRISTIAN WENZ, RICHARD CAMPBELL, JOHN PAPA

Today more than ever, you have a choice when building a web application on the Microsoft stack: do you use the latest that trustworthy old ASP.NET Web Forms has to offer, jump whole hog into ASP.NET MVC, or do you ditch it all and use JavaScript, AJAX, jQuery, HTML5, and web services to create a killer one-page app? What about maintainability and the use of third-party libraries? Come hear a lively discussion of the options and some opinions on which road you might want to take when building that next web app.

CHT202: HTML5 JAVASCRIPT APIS: ALL YOU NEED TO KNOW

CHRISTIAN WENZ

It may be called HTML5, but the main functionality of the upcoming web standard can be found in the JavaScript APIs and DOM interfaces involved. In order to get a good understanding of the major new features, this session will feature several live code

demos of what is coming. Topics covered include geolocation, canvas, offline storage, multimedia APIs, history manipulation, and a drag & drop rant. We will also discuss which features can (and should) be used already today, and which browsers still have some issues.

CHT302: MAKING HTML5 WORK EVERYWHERE
TODD ANGLIN

One of the great promises of HTML5 is that you can create software that runs everywhere. In many ways, HTML5 lives-up to this promise, but as with any evolving standard, support across different browsers and devices is inconsistent. To effectively adopt HTML5 today, developers must master the skills that fill-in the gaps and minimize the differences between HTML5 runtimes. In this session, you will learn the essential techniques needed to create HTML5 sites and apps that truly work everywhere.

CHT303: RICH HTML5 CLIENT DATA APPLICATIONS WITH WCF RIA SERVICES
BRIAN NOYES

WCF RIA Services paved the way for a rich data client interaction with services for Silverlight. Now that support has been extended to HTML/JavaScript clients as well. In this session, you will learn about the basic structure of a WCF RIA Service, and more so how to leverage that in JavaScript client code in a HTML5 browser application. You'll see how to make the service calls, work with strongly typed data entities, data bind to them with jQuery, leverage rich validation and security support that all comes "for free" with WCF RIA Services and the jQuery client.

WINDOWS 8

CWI202: FUNDAMENTALS OF WINDOWS 8 HTML/JAVASCRIPT METRO STYLE APPS
DAN WAHLIN

Heard the buzz about Windows 8 Metro style apps but don't know where to start? In this session, you'll learn how your existing HTML, JavaScript, and CSS skills can be used to build Windows 8 Metro style apps. Learn about different Visual Studio 11 project templates, built-in scripts, and Windows Runtime (WinRT) calls that you can make to build robust applications that will be capable of targeting millions of Windows users on the desktop and on tablets in the near future.

CWI201: FUNDAMENTALS OF WINDOWS 8 XAML METRO STYLE APPS

JOHN PAPA

Heard the buzz about Windows 8 Metro style apps but don't know where to start? In this session you'll learn how to build Windows 8 apps using XAML and take advantage of the native Windows 8 features. Walk through the fundamentals of Windows 8 and then learn about styling, animations, invoking the Windows Runtime (WinRT), the intrinsic controls, and more that will help prepare you to develop Windows 8 Metro style apps.

CSS

CCS201: TIPS TO SPICE UP YOUR HTML5 APPS (EVEN IF YOU ARE NOT A DESIGNER!)

PAUL D. SHERIFF

Most programmers are not artists; but you do not need to be one in order for your HTML5 applications to look professional. Just a few little touches such as the appropriate styles, color gradients, pictures, animation and a few other UI design tips and your application will look great! This session will present you with a collection of tips that will spice up your desktop or web applications in no time at all. The best thing is you can do all of these in Visual Studio; no need to learn an artist's tool such as Photoshop or Expression Blend! This session will show you how to create a library of re-usable styles, colors, gradients, color palettes, descriptive buttons and many other techniques that will take your applications from drab to fab! You will walk away with a set of styles and resources that you can put to use in your applications immediately!

JAVASCRIPT

CJS201: HTML5 AND JAVASCRIPT FUNDAMENTALS WITH MVVM AND KNOCKOUTJS

JOHN PAPA

Do you write a lot of HTML and JavaScript code to push and pull data? In this session you will learn popular techniques to use data binding to bind your data to your target controls in HTML writing less code, but gaining more power. See how to consume JSON data, use JSON objects in JavaScript, use declarative binding, using KnockoutJS. You will also see how to use the MVVM pattern to write data-centric Javascript code that follows good separation patterns and creates highly maintainable code.

ASP.NET, Silverlight & HTML5 Sessions

CJS301: TECHNIQUES, STRATEGIES, AND PATTERNS FOR STRUCTURING JAVASCRIPT CODE

JOHN PAPA

DAN WAHLIN

Are you writing a lot of JavaScript code and trying to apply good practices to make it more maintainable and flexible? In this session, learn about common practices to avoid problems such as polluting the global namespace and code that executes inconsistently, by using patterns such as separation and the Revealing Module Pattern. You will leave this session with several tips on how to write clean, more maintainable, and consistent code.

CJS202: TEMPLATING AND DATA BINDING FOR HTML5 APPLICATIONS WITH JSRENDER AND JSVIEWS

DAN WAHLIN

JOHN PAPA

Interested in using the latest JavaScript libraries for templating and data binding your HTML5 app? In this session you will learn how to simplify JavaScript development using JsRender and JsViews (the replacements for jQuery templates). Learn how JsRender brings a new templating library to HTML5 development that has a code-less tag syntax, high performance, no dependency on jQuery nor a DOM, supports creating custom functions, and uses pure string-based rendering. You will also see how JsViews compliments JsRender by providing data binding features through observability of changes that work with plain old JavaScript objects (POJO).

Visual Studio Sessions

SESSIONS PRESENTED BY TEAMS FROM MICROSOFT

THE ALM VISION

WHAT'S NEW IN VISUAL STUDIO IDE

VISUAL STUDIO TIPS & TRICKS

IMPROVING SOFTWARE QUALITY USING VISUAL STUDIO

WORKING ON AGILE TEAMS WITH VISUAL STUDIO AND TEAM FOUNDATION SERVER

WRITING MODERN C++ CODE

CREATING NEXT GENERATION WEB APPS

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LANGUAGE AND TECHNIQUES

VLA309: APPFABRIC CACHING: HOW IT WORKS AND WHEN YOU SHOULD USE IT SHY COHEN

Caching is a key technology for improving application performance and scale. It does so by taking the load off your database and moving frequently used data into a distributed memory storage that resides close to the application components accessing it. This session focuses on Microsoft's AppFabric Caching technology and provides a technical view of how developers can take advantage of it. We will first discuss the three types of data that exist in any type of system and how to best cache each one of them. We will then cover the caching offers in both Windows Server AppFabric and Windows Azure AppFabric, and examine the key differences between the two. If you want to really, really understand caching and how to use it in the most optimal manner, this is the session for you!

VLA311: BUILDING LOOSELY COUPLED XAML CLIENT APPS WITH PRISM BRIAN NOYES

Prism is a toolkit from Microsoft patterns and practices for building loosely coupled composite applications that had over 50000 downloads in the last year. It scales well from small apps to very large client apps, and you can pick and choose which of its features make sense in your applications. In this ses-

sion, you will learn how to ramp up with Prism, starting with the smallest and easiest to use parts such as commands, events, and behaviors in Prism. You will also get a quick intro into the large-scale app features of modularity and regions. This session will set you up to use Prism in either a "light-touch" way - just extracting a few bits of pre-built but very useful functionality, or fully embracing it and building full-blown Prism apps from scratch.

VLA412: EMBRACE ASYNC BRIAN NOYES

Async is the new sync. Face it, no one likes to write asynchronous, multithreaded code. Well, no one in their right mind anyway. But more and more we need to do it, especially on the client side. Silverlight and WinRT make us do just about anything that doesn't involve the UI itself using asynchronous APIs. With the new async keywords being added to C# and VB, as well as the async patterns of JavaScript, we have the tools to make async a bit easier to deal with. This session will start by presenting the new async keywords and the way you can write sequential discontinuous code. Then you will learn some of what is going on under the covers and how you can address more advanced and optimized scenarios by working with Tasks directly. You will also get a brief exposure to the Parallel class and PLINQ for dealing with collections in an async way. After this session, you will be able to approach asynchronous programming with calm confidence that the code you write will be readable and easy to understand, while still non-blocking and performant.

VLA402: GETTING GEEKY WITH THE .NET FRAMEWORK

KATHLEEN DOLLARD
Each version of the .NET Framework has presented significant language and framework improvements. This session explores advanced details of key features and how to use them more effectively. .NET 2.0 introduced generics and the familiar use of generic lists. Powerful and often overlooked features include generic base classes to avoid semi-redundant code, static fields on generic classes, and the effect of generics on overloading rules. 2.0 also introduced anonymous methods and the interesting effect closures

have on local variables. .NET 3.5 introduced LINQ with the familiar selection and filtering syntax. A deeper dive reveals powerful set manipulation tools, data transformations, and improved XML techniques. You can even write LINQ-friendly extension methods. .NET 4.0 is the current framework version. It introduces a host of new features; this session will touch on the most important and overlooked. You'll see how code contracts improve reliability of code and how tuples can simplify complex lists and arrays. You'll also see how to use dynamic variables to simplify accessing external libraries, along with ways dynamic might surprise you. A quick introduction to MEF will clarify its intent and use. This session will close with an explanation of covariance and contravariance.

VLA408: IDENTITY NOW: SECURING A NEW GENERATION OF .NET APPLICATIONS MICHELE LEROUX BUSTAMANTE

Identity federation has evolved significantly these past years. Today, there are numerous protocols for identity federation in browser-based scenarios, as well as client to service scenarios, including WS-Trust, WS-Federation, SAML 2, OAuth2 and Open ID. But you don't want to know about these details...you just want to effectively secure your applications using the protocols that make sense for the scenario. Sometimes this means granting access to users that log in to their favorite social networking application such as Google Apps, FaceBook and Twitter. Sometimes this means allowing external partners that belong to another Windows domain access. Sometimes a combination of internal and external users is ideal. Fortunately, along with the growth of protocols there has been a growth of tools and services to simplify working with identity in these ways, including Windows Identity Foundation (WIF) and Windows Azure AppFabric Access Control. This session will provide practical insight into the application of identity federation for your applications including Windows clients, mobile apps, web applications and HTML5, Metro style apps and WCF services. You'll learn some common architectural scenarios and how to set up these scenarios with the available tools. Protocol knowledge absolutely not required!

Visual Studio Sessions

VLA206: IMPLEMENTING THE MVVM PATTERN IN WPF **MIGUEL CASTRO**

In our never-ending quest to put as many letter variations as possible behind "MV" we have MVVM. Model-View-ViewModel is binding-oriented pattern that is crucial to WPF and Silverlight development and in this session I'll teach you all about it, and how to implement it properly. I'll cover binding, intent and implementation of ViewModels, Commanding and Unit Testing techniques. Come on in, and leave your code-behind at the door.

VLA310: LEVERAGING WCF WEB API TO REACH MANY CLIENT PLATFORMS **BRIAN NOYES**

The Web API lets you easily build HTTP web services that can be called from any platform. In this session you will learn how to expose services with the Web API that support REST-style architecture, multiple encoding formats, and easy to use APIs. You'll see what the client code looks like in .NET, Silverlight, and Metro, as well as what it looks like from iOS. You'll learn how to secure the services and get the most out of the platform with minimal coding and hosting complexity, while still having a great deal of flexibility for handling advanced scenarios.

VLA307: UNDERSTANDING DEPENDENCY INJECTION AND THOSE PESTY CONTAINERS **MIGUEL CASTRO**

Dependency injection is one of those terms that advanced programmers throw out with an expectation and assumption of full understanding on the part of the receiver. However, I constantly get asked by attendees, students and clients to please recommend a good DI product and show them how to use it; and when I proceed to start talking about the subject, it becomes immediately apparent that many don't even know what they're asking about. It's easy to get infatuated by a cool buzz phrase, especially when you hear so many others using it. But to truly understand something you need to start by understanding the problem spaces that it is trying to solve. So let's bring you totally up to speed. In this session, I'll explain dependency injection from concept to implementation, and use raw code samples to show you how it works and what problems it solves. Then I'll get into what a DI container is and some of the characteristics of the ones that are out there.

VLA201: VISUAL STUDIO TIPS - GETTING SOME TIME BACK **KATHLEEN DOLLARD**

You spend hours every day in Visual Studio. If you save just a few minutes every day, you'll save many hours each year. This session offers a boatload of Visual Studio tips aimed at the primary operations you perform every day - particularly navigation, editing, evaluating code and many different types of searching. There are several flavors of Visual Studio available and this session focuses on the current release - Visual Studio 2010 with and without the Productivity Power Tools. The Productivity Power Tools includes many features that will be included in the next version - Visual Studio 2012. This session will improve your productivity with Visual Studio today and prepare you for Visual Studio 2012.

UI DESIGN

VUI321: DESIGNING FOR TOUCH IN WINRT, WPF, SILVERLIGHT, AND WINDOWS PHONE **BILLY HOLLIS**

With touch-enabled devices becoming more common, many developers need to become familiar with what touch can do, and how touch interface designs differ from mouse-based interaction designs. For healthcare, imaging, kiosk applications, and many other fields, touch can be the ideal interface. This session goes over the basics of touch, including gestures and how they fit into typical UI design, touch-associated events, controls available to quickly develop touch interfaces, and pitfalls to avoid. Variations in touch support in WinRT, WPF, Silverlight, and Windows Phone 7 are also summarized.

VUI322: IMAGINATION WORKSHOP FOR SILVERLIGHT AND WPF DEVELOPERS **BILLY HOLLIS**

Why must so many Silverlight and WPF applications have such prosaic user interface designs? Most often, developers are just happy to produce a XAML-based interface at all, and merely apply some cosmetics to hoary old UI designs from the 1990s. This session features a set of interactive exercises alternating with discussion, challenging you to break out of your old habits and create more innovative interfaces that offer new benefits to your users. Come ready to sketch and imagine, alone or in teams, and free up your right brain for some new ways of looking at application interface design.

VUI313: THE NEXT GENERATION OF SOFTWARE: LEVERAGING NATURAL USER INTERFACE TECHNOLOGY TO DELIVER IMPROVED USER EXPERIENCE

TIM HUCKABY

For more than 30 years developers have been building software for small computers like the PC. Now a reinvigorated focus on user experience with rich client and rich internet application (RIA), developer technologies have created even greater opportunities for the creation of awesome applications. When you couple that with the advent of multi-touch capable hardware at consumer prices and the high level .NET APIs to leverage multi-touch capabilities, we have the start of the new age of software focused on the Natural User Experience (NUI). NUI applications manifest in "new" platforms and developer technologies such as Windows 7, Surface, WPF, the Windows 7 Mobile phone and Silverlight, and all can leverage innovative capabilities like Multi-touch, Cloud and Parallel computing. But, NUI is more than just multi-touch. NUI is also gesture-based interfaces using the Kinect tracking full body movement, facial expressions, and voice recognition with precision. And within the decade NUI will be Neural-based interfaces (both conscience and non-conscience). This demo-focused session will take an amusing look at the past and take an impressive look at some of the best software being built today and into the immediate future that leverages the Natural User Interface. This session will demonstrate how multi-touch enabled applications can be used in multiple vertical industries to improve the communication, education, collaboration, and experience overall across the software continuum.

Visual Studio Sessions

VUI319: THE SCIENCE OF GREAT UI, PART 1: MEASURING QUALITY AND INTERACTIONS

MARK MILLER

Explore the how and why of great UI. If you believe you're not an artist, that UI is merely subjective, or that a great UI is not worth the effort, then these two-part sessions are for you. This session will shatter the popular myth that UI is subjective. We'll see that the quality of user interfaces can actually be quantified and a winner can be selected based on agreed-upon criteria. We'll look at ways to measure physical and mental effort, irrespective of the physical device. We'll find ways to "widen the path" for your users, and look at shortcomings in today's controls. We'll cover layered UIs, navigation, size and precision, predicted assistance, and discover-ability.

VUI320: THE SCIENCE OF GREAT UI, PART 2: PRESENTING WITH CLARITY AND THE BUSINESS CASE FOR GREAT UI

MARK MILLER

Learn how to how to present information effectively. We'll cover information relevance, proximity, information in parallel, emphasis, smallest effective difference, contrast, size, color, text, fonts, borders, and signal & noise. We'll show how existing user interfaces can be improved. If you don't have a graphic artist on your team, this session will show you how to fake it, and if you do, this session will show you how to communicate with them persuasively. We'll also present a compelling business case for great UI. Regardless of whether you're building applications for the web, desktop, or mobile, you'll learn how to reduce visual noise, lower barriers to entry, enhance clarity and make your applications a pleasure to use. It's all about making customers happy, and this session will show how you can make a big difference with small changes.

VUI323: TIPS TO SPICE UP YOUR APPLICATIONS (EVEN IF YOU ARE NOT A DESIGNER!)

PAUL D. SHERIFF

Most programmers are not artists; but you do not need to be an artist in order for your applications to look professional. Just a few little touches such as the appropriate styles, color gradients, pictures, animation and a few other UI design tips and your application will look great! This session will present you with a collection of tips that will spice up your desktop or web applications in no time at all. The best thing is you can do all of these in Visual Studio; no need to learn an artist's tool such as PhotoShop or Expression Blend! You will be shown how to create a library of re-usable styles, colors, gradients, color palettes, descriptive buttons and many other techniques that will take your applications from drab to fab! You will walk away with a set of styles and resources that you can put to use in your applications immediately!

PANNELS AND Q&A SESSIONS

PANELO2: CLOUD COMPUTING: THE GOOD, THE BAD AND THE UGLY

MICHELE LEROUX BUSTAMANTE

Join us for a frank discussion with Microsoft and other industry experts what the good, bad and ugly facts are around cloud computing today. Bring your toughest questions and enjoy the discussion!

SESSIONS PRESENTED BY TEAMS FROM MICROSOFT

VMSAZ01: A LAP AROUND WINDOWS AZURE (PART 1 AND 2)

VMSAZ03: CONNECTING TO ON-PREMISE DATA FROM WINDOWS AZURE

VMSAZ06: MOBILE DEVELOPMENT WITH WINDOWS AZURE

VMSAZ04: STORAGE AND DATA OPTIONS WITH WINDOWS AZURE

VMSAZ05: WEBSITE DEVELOPMENT WITH WINDOWS AZURE

Sessions will be added and updated that are currently under wraps. Check the website for final session titles, abstracts and speakers.

WINDOWS AZURE

VAZ303: BUILD SPEEDY AZURE APPLICATIONS WITH HTML 5 AND WEB SOCKETS TODAY

RICK G. GARIBAY

In the world of HTML5 development, interoperability is king. Unfortunately, sometimes interoperability can be at the expense of performance. With support for bi-directional, full-duplex messaging simply out of the reach of the HTTP protocol, messaging support in HTML5 can be severely limited. Fortunately, standards groups including the W3C and IETF are hard at work on a standard specification called WebSockets which aims to bring these much needed capabilities to the masses. Come learn how Microsoft is leading the innovation behind this exciting capability with an interactive presentation covering Microsoft's implementation of the HTML5 WebSockets API and how you can provide the performance and functionality required to deliver great user experiences with HTML5, WCF and Windows Azure today.

VAZ305: CLOUD SOLUTIONS FOR A MOBILE WORLD

MICHAEL COLLIER

The Windows Azure Platform is well-suited to provide the scalable compute and storage services for mobile applications. With a friendly REST-based API, a comfortable development environment, easy to leverage services such as Access Control Services and the AppFabric Service Bus, and ready-to-go toolkits, the Windows Azure platform provides a wealth of opportunities for mobile application developers. In this demo-heavy session, we will explore how easy it is to leverage these services for Windows Phone 7 applications. Coming away from this session we will have a solid understanding of ways to leverage the Windows Azure platform as a component of a mobile application.

VAZ304: HTML5 AND WINDOWS AZURE: BETTER TOGETHER

DAVID PALLMANN

Modern web application design is being heavily influenced by HTML5 on the front end and cloud computing on the back end, and they are best considered jointly as there are combined effects. Come to learn the role Windows Azure plays in the era of “connected devices, continuous services”. You’ll see how Windows Azure services can be combined with HTML5, JavaScript and the Microsoft web platform to create web solutions that run anywhere and everywhere with ubiquity of device and location. We’ll be exploring winning combinations of HTML5 and Windows Azure that bring out the best of both. Considerations will include hosting, state management, storage, performance, and global presence along with examples.

VWA02: INTRODUCING THE AZURE APPFABRIC SERVICE BUS

JUVAL LOWY

The services bus is arguably the most accessible, ready to use, powerful, and needed piece of cloud computing. The service bus allows clients to connect to services across any machine, network, firewall, NAT, routers, load balancers, virtualization, IP and DNS as if they were part of the same local network, and doing all that without compromising on the programming model or security. The service bus also supports callbacks, event publishing, authentication and authorization and doing all that in a WCF-friendly manner. This session will present the service bus programming model, how to configure and administer service bus solutions, working with the dedicated relay bindings including the available communication modes, relying on authentication in the cloud for local services and the various authentication options, and how to provide for end-to-end security through the relay service. You will also see some advanced WCF programming techniques, original helper classes, productivity-enhancing utilities and tools, new features such as pub/sub and queues, as well as discussion of design best practices and pitfalls.

VAZ201: MAKING CRAZY MONEY WITH GAMES AND THE CLOUD

BRIAN PRINCE

Everyone seems to be working on a game these days. And why not? You can make some great money, have fun building something, and become famous. Many new games, especially casual games, are using the cloud. Not just to reduce their startup costs, but to innovate. Come see how you can build a modern game that uses the cloud to startup and scale. Real-world gaming scenarios included, fame not guaranteed.

VAZ307: MASTERING NOSQL WITH AZURE TABLE STORAGE

SHY COHEN

Storage is one of the key ingredients of Cloud Computing! Azure offers several types of storage mechanisms - from the familiar relational SQL Azure to the non-relational Table Store. While SQL Azure may provide a familiar environment, to reap the full benefits of the cloud you should really use the infinitely scalable, highly distributed, and aggressively priced Table Store. In this session Shy Cohen will explain the ins and outs of Table Store, sharing his experience from implementing cloud solutions based on this storage technology, and offering deep insight into ways by which you can reduce cost and increase the scalability of your cloud applications.

VAZ308: SECURITY ARCHITECTURE IN THE CLOUD

MICHELE LEROUX BUSTAMANTE

Cloud computing offers a number of useful services including Software as a Service (SaaS), Infrastructure as a Service (IaaS) and Platform as a Service (PaaS). Companies can leverage these services in different ways: they can go all-in hosting their applications and data in the cloud; they can leverage infrastructure services to compliment on-premise and cloud systems; and there are many hybrid solutions for combining on-premise and cloud services. The decision as to which assets are trusted to the cloud is highly dependent the risk assessment for placing the asset in the cloud. Companies need to maintain adequate control and protection over each asset no matter where it is hosted. The architecture and design phase is also critical to determining where assets will be hosted (on-premise or in the cloud) and how each asset will be secured. You need a clear picture as to how each asset is accessed both from an administration and

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usage perspective, a risk assessment for those usage patterns, and options for mitigating those risks and securing your assets. This session will lay out popular architectural scenarios for leveraging the Windows Azure Platform including Windows Azure, Windows Azure AppFabric, and SQL Azure and for each scenario discuss security concerns at each tier - on-premise or in the cloud - and recommended techniques for securing relevant assets. Among security concerns to address will include identity and access management, transfer protection, data and content protection, key management, and infrastructure security.

VAZ306: THE INS AND OUTS OF WINDOWS AZURE APPFABRIC CACHING

SHY COHEN

AppFabric Cache is a distributed, out-of-process, in-memory caching service. It has the potential to dramatically improve the performance of your applications, if used correctly. If you want to fully understand caching, this is the session for you! Armed with practical experience implementing caching with some of the world’s largest websites, deep knowledge of the platform, and unparalleled insight, Shy Cohen will explain caching starting with basic concepts and ending with advanced techniques.

.NET FUNDAMENTALS

VFN06: A GENTLE INTRODUCTION TO ODATA

STEPHEN WALTHER

The OData protocol is an open protocol developed by Microsoft which enables you to perform LINQ queries across the Internet. Netflix, Stack Overflow, SharePoint, and Windows Azure all use OData to expose data. In this session, you are introduced to the OData protocol and you learn how to use WCF Data Services to expose your data using OData.

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VFNO4: ALL YOU NEED TO KNOW ABOUT JQUERY IN 75 MINUTES CHRISTIAN WENZ

Since Microsoft decided to ditch their own JavaScript library in favor of jQuery, ASP.NET developers need to familiarize themselves with the open source project. This session will guide you through the first steps with jQuery, covers essential techniques like element access, event handling and AJAX calls, and also provides a glimpse into advanced topics like plug-in authoring. We will also discuss how to integrate jQuery nicely into ASP.NET applications and how to get rid of the Microsoft AJAX Library.

VFNO7: EFFECTIVE PATTERNS FOR BUSINESS RULES AND VALIDATION JOHN A. KUHN

Every application uses validation and business rules, but not every application takes advantage of the most effective approaches to implementing business requirements. In this session, you will learn how to design business rule and validation strategies using effective design patterns that enable your applications to be testable, flexible and easier to maintain.

VFNO8: INTRODUCTION TO WEB APPLICATION SECURITY CHRISTIAN WENZ

Most of the high-profile security vulnerabilities in websites of the last few months were caused by sloppy code. This session gives a thorough introduction of the most common (and dangerous) security vulnerabilities, and discusses how ASP.NET itself and your own code can protect against these attacks. We will also cover common best practices on writing safe code for the web.

VFNO3: MULTI-THREADING: IT'S NOT JUST FOR PROPELLOR HEADS

MIGUEL CASTRO

Threading is one of those topics that is both a little complicated and very misunderstood. It seems it is a topic of extremes. Developers either don't use threading at all or overuse it completely. Adding multi-threading capability to your application is not for the faint of heart but it's also not always useful. This session will introduce you to threads in .NET and how to probably use them and more importantly when to properly use them. There are plenty of code samples here showing you various threading techniques and hopefully demystifying what is otherwise a pretty advanced topic.

VFNO5: REST IS IN, SOAP IS (ALMOST) OUT. LET'S TALK WCF

MICHELE LEROUX BUSTAMANTE

This session will introduce the trend to REST, then focus on the guts of how to build a system using REST-based WCF techniques today with a practical spin on when to do this.

VFNO1: UNIT TESTING BASICS AND ARCHITECTING APPS FOR TESTING

PAUL D. SHERIFF

Everyone knows that they should be writing unit tests for their applications, but how many of us really do it? In Visual Studio, unit testing is an integrated part of the development environment. There is no longer any reason to avoid not doing test-driven development and automated unit testing. In this session you will be introduced to the basics of unit testing, how to run tests and how to reduce the number of tests by taking advantage of data-driven tests. You will then see an example of how to architect your applications to make testing quicker and easier. At the end of this session you will walk away with the knowledge you need to start automating the testing of your applications.

VFNO2: WCF SECURITY DEMYSTIFIED

MIGUEL CASTRO

Security is the most confusing topic in WCF, at least for me it was. In fact, security was my unicorn (you know, like Elanor was to Memphis Raney in *Gone in 60 Seconds*). When I got it though, I got it. It was like a moment of clarity that hit me in the chest and made total sense. I've since tweaked the techniques I use to teach it in classes so that I can share that moment of clarity with others. If this topic has been a bit of an enigma to you, come to this session and let me help you shine a light on it once and for all.

DESIGN AND PROCESS

VDE418: APPLICATION ARCHITECTURE IN A DISTRIBUTED WORLD

ROCKFORD LHOTKA

Without a consistent and well-defined architecture, even the best developers have a hard time achieving success. Today's distributed, parallel, and asynchronous software projects require the use of reliable architectural principles at their core. In this session you will learn the value of a layered architecture for applications, and a loosely coupled, message-based architecture for broader systems. This session will provide you with a common language and thought model for discussing n-tier and SOA architectures, enabling you to identify and use an appropriate architecture for your project.

VDE305: SERVER FORTUNE TELLING

JUVAL LOWY

As indicated by the recent announcements at BUILD, big changes are heading our way to the client, from Metro to tablets and amazing connectivity. But what about the server side? If you use .NET for your server and services, you are utilizing a technology that is already older than COM, VB6 or old C++ ever were when .NET retired them in 2002. This begs the questions: why has .NET persisted for so long on the server side, what will come after .NET and when? In this highly speculative and provocative session, Juval Lowy will analyze the current situation, and try to extrapolate the future from past trends in software engineering in general and Microsoft server technologies in particular. While lacking a crystal ball, Juval will point out the common driving forces behind all adoptions of new technologies and their timelines, and provide a reasonable picture of the future platform and even when it will come about. The session aims at enabling senior developers and deci-

sion makers to avoid the all-too-familiar and cyclical deer-in-the-headlight syndrome at major technological inflection points that catches most unprepared, and align early their current roadmap and technology roadmap with what will come after .NET.

VDE304: THE ARCHITECT
JUVAL LOWY

The software industry is in a deep crisis. Projects suffer from low quality; schedule slips and cost overrun are common. But this is hardly ordained, since there are plenty of examples of projects done on schedule, on budget, on quality in a repeatable manner. The key for solving the crisis is to practice software development as an engineering discipline, just like it is done in mechanical or electrical engineering. That is exactly the responsibility of the modern software architect, which must address software systems from an engineering standpoint, applying age-old engineering practices to software development. Armed with that crucial observation, Juval will share his perspective on what is the key set of skills required of the architect, the role architects have to plan in order for the project to succeed, what it implies both to companies and to individual architects, and how should architects navigate and manage their own career path and personal growth.

KINECT DEVELOPMENT

VKN314: GESTURE-BASED SOFTWARE INTERFACES: KINECT-A NEW GENRE OF UX
TIM HUCKABY

One of the coolest and most exciting things to come out of Microsoft Research in recent years is The Kinect for Windows SDK. Currently in beta format, it is a programming toolkit that enables .NET application developers to build software that is driven by gesture and voice. This session is an intro session to building (Natural User Interface) NUI solutions that will get you over the learning curve and well on your way to building gesture and audio-based interfaces. This session will also focus on the design of NUI applications which have to pay particular emphasis on usability and user experience. This session was designed to show you real and futuristic application suites based in NUI whose services and structured storage are aggregated in the cloud and emphasize how they are architected.

VKN325: THAT'S NOT KINECT PROGRAMMING!

CARL FRANKLIN

Carl Franklin shows you how to use his Franklin's Kinect Gesture Recorder (free beta) to record yourself making gestures and then receive an event notification in your app when one of your gestures is recognized. All without programming! Along the way you'll learn about how the Kinect does what it does and how you can use the Microsoft Kinect SDK and the FKGR in your applications.

DEVELOPING FOR WINDOWS 8

VW8317: FROM WINDOWS FORMS TO WINRT
ROCKFORD LHOTKA

So you have a big investment in Windows Forms, but it is clear that the future is a XAML UI, with asynchronous server/data access, and no client-side DataSet. What strategies can you use to salvage at least some of your existing code over the next few years?

VW8315: THE ROAD TO WINDOWS 8: ARCHITECTING APPLICATIONS FOR TODAY AND TOMORROW
MARKUS EGGER

"The only constant is change." This statement was never more applicable than it is for the world of technology and especially the current state of UI technologies. Windows 7, Web apps, Phone apps, slates, and now Windows 8 with its Desktop and Metro modes, are all viable contenders for the user's attention and investments. New client-side technologies come and go at a very rapid pace, and support for all these technologies is expensive. So how do you cope with these demanding needs? It starts with solid architecture! The way you build your applications should support all these needs with changes being confined to the UI layer (a goal that becomes achievable through the principles of SOA). And even in the UI layer, you need to support as high a level of reuse across platforms and technologies as possible. This session provides a good overview of many of these principles and uses many real-world examples to illustrate the individual points.

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VW8316: THE ROAD TO WINDOWS 8: CONVERTING WPF AND SILVERLIGHT APPLICATIONS TO "METRO"
MARKUS EGGER

Windows 8 Metro is new and different. But it is still based on familiar concepts, languages, and techniques, such as C#, VB, and XAML. This means that investments made into various versions of Silverlight and WPF will have a natural path forward into Metro. But it by no means is an automatic process. Some things will translate into Metro very well, while others may not work or won't be supported at all. This session provides an in-depth overview of what to expect when moving forward into Metro and how to convert existing applications. It also shows techniques you can use today to ensure your current investment will be as safe as possible for a future move into Metro and even other technologies.

VW8303: WHAT'S NEW IN .NET 4.5?
KATHLEEN DOLLARD

.NET 4.5 offers a new approach to asynchronous programming, support for Windows 8 development, and a few other features and improvements. This session will clarify the distinction between asynchronous and multi-threading, when each is appropriate and the extra complexity of multi-threading. C# 5 and Visual Basic 11 include the concept of continuations at a language level, allowing massively simplified coding of both asynchronous and multi-threaded programs. Windows 8 provides support for both a desktop framework and a smaller framework for Metro style apps. You'll get an overview of this design and learn how to target either framework and how to isolate code that can run on both frameworks. The session will also give an overview of other changes within the framework, such as changes to the Managed Extensibility Framework (MEF) and garbage collection.

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VW8224: WINRT/METRO FOR SILVERLIGHT DEVELOPERS

CARL FRANKLIN

Carl Franklin explains WinRT from both a technical and strategic perspective, and gives you a good idea of what you are up against if you plan to re-use Silverlight code or XAML in a WinRT Metro-style app for Windows 8.

MIGRATION

CHOOSING BETWEEN ASP.NET WEB FORMS AND ASP.NET MVC

JOHN A. KUHN

Microsoft provides two great approaches to developing web applications: ASP.NET Web Forms and ASP.NET MVC. In this session, you will learn the advantages and disadvantages of using ASP.NET Web Forms or ASP.NET MVC for different application scenarios, as well as what both approaches have in common. In addition, you will get an overview of how to architect web applications to minimize these differences. Whether you are new to ASP.NET development, or have been developing web applications for a while, this session will help you decide which approach to use on your next project.

VM104: FROM ZERO TO HTML5 IN 75 MINUTES

PAUL D. SHERIFF

Confused about how to move from your current technology such as ASP.NET, Windows Forms, WPF, or Silverlight to HTML5? This session will focus on HTML5 for the business application programmer. Learn the new keywords and the new attributes that make HTML5 a great addition to your web applications. This session teaches you the basics of HTML5 focusing on form layout for business applications. You will learn how to use styles and attempt to make HTML5 generic across the widest possible collection of browsers that are out there. You will walk away with a set of samples that you can use to build your own HTML5 web applications.

VM103: INTEROPING WINDOWS FORMS AND WPF: TIPS AND TRICKS

MIGUEL CASTRO

So you're having a hard time convincing your boss to let you jump into WPF. How about one piece at a time? You do know that Windows Forms and WPF can coexist in the same application, and even communicate with each other, don't you? In this session I'll give you ins and outs of having these two technologies talk to each other. I'll start by giving you a rundown on the key differences in the programming paradigm of WPF. I'll show you how to get into the mindset of writing XAML code, then we'll jump in and see how you can start adding WPF components to your existing Windows Forms applications. Maybe then your boss can let you take the leap into total XAML immersion.

VM102: INTRODUCTION TO JAVASCRIPT FOR C#/VB.NET DEVELOPERS

STEPHEN WALTHER

JavaScript can seem like a weird and mysterious language to C# and Visual Basic developers. The goal of this session is to provide a brief introduction to JavaScript for non-JavaScript developers. You'll learn about the difference between object and class inheritance. You'll also learn about many of the new features introduced in the latest version of JavaScript such as support for true properties, new mechanisms for inheritance, and strict mode.

PROFESSIONAL DEVELOPMENT

Many people who find themselves working on software development projects have had professional training in technology but not professional training in the soft skills required to make projects successful. After a hugely successful launch in fall 2011, DevConnections is back in spring 2012 with our professional development track. Whether you work on a team that does desktop, web or mobile development, and whether you work at a small company or a very large company, and regardless of the software technology you use or your technical proficiency, the soft skills you need to be a better team participant and to make more of your projects successful can be learned in this special track.

PRODEV01: PROJECT MANAGER'S SURVIVAL GUIDE - 24 TIPS TO SURVIVE ANY PROJECT

MICHAEL KRASOWSKI

Are you having difficulty managing your projects? Are you about to enter the uncharted territory of project management? Do you know how to communicate effectively to your customer, teammates and your management? Come early, sit close and get some common sense, experienced-based tips and pointers on how to improve your skills. Discover how to find the "right" people for your team. Learn the practical elements of working with customers, people, technology, process, and "connecting" them successfully to be more effective at your job. You will leave with demonstrable actions that you can apply at your next day back at work.

PRODEV02: BEST PRACTICES FOR REQUIREMENTS GATHERING

MICHAEL KRASOWSKI

Have you wondered...why your applications just don't seem to match your customer's expectations? How do you manage the "moving target" of requirements? Learn key, common sense, concepts to provide an improved foundation to your skill set. Today's economic conditions have helped drive the need for new tools and methods for requirements

gathering. Discover approaches to matching requirements and customer's expectations. Understand the intricacies of balancing scope, schedule and budget. Learn how to balance the need for rigor and the need for speed and efficiency in gathering your requirements. Grasp how to embrace uncertainty that is inherent and inevitable in software development projects. These best practices presented to you will enable you to leverage what you learned at your first day back at the office.

PRODEV03: BEST PRACTICES FOR ESTIMATING YOUR PROJECTS
MICHAEL KRASOWSKI

Are you afraid of making estimates? You are not alone! Do you know why making quality estimates AND tracking actuals is so important? Can you really estimate how long a football game will be? Learn the importance of accurate estimating and how that skill will help you define and manage your customer's expectations. Discover the difference between "ideal time" and "elapsed time" and why your estimates need to encompass both. Join others in learning the anatomy of an estimate and lean techniques to make your life easier. Come learn some great tips you can begin using your first day back on the job.

PRODEV04: THE ZEN OF ARCHITECTURE
JUVAL LOWY

Wonder about architecture best practices, guidelines and pitfalls? Wonder how to design world-class systems? You understand the concepts but not how to apply them? In the first half of this fast-pace session, Juval will explain his original approach to large system analysis design. Then, he will discuss logical tiers, security, interoperability, scalability, transactions, and other aspects of a modern application. You will see how to approach rarely discussed topics such as allocation of services to assemblies, allocation of services to processes, transaction boundaries, identity management, authorization and authentication boundaries and more.

SESSIONS PRESENTED BY TEAMS FROM MICROSOFT

HMS02: BE A NO-CODE JUNKIE: EASY-TO-BUILD SOLUTIONS FOR SHAREPOINT

HMS06: GETTING BEYOND THE SANDBOX RESTRICTION: DEVELOPING CLOUD-BASED SOLUTION FOR OFFICE 365

HMS01: GETTING STARTED WITH JQUERY AND SHAREPOINT

HMS03: GETTING STARTED WITH SHAREPOINT ONLINE DEVELOPMENT

HMS04: IMPRESS YOUR BOSS WITH GREAT, NO-CODE BUSINESS INTELLIGENCE SOLUTIONS FOR SHAREPOINT

HMS05: OVERVIEW OF SQL SERVER 2012 AND SHAREPOINT INTEGRATION: TAKING YOUR BUSINESS INTELLIGENCE TO THE NEXT LEVEL

HMS08: SHAREPOINT AND WINDOWS AZURE FOR THE DEVELOPER

HMS07: SHAREPOINT AND WINDOWS AZURE FOR THE IT PRO

Sessions will be added and updated that are currently under wraps. Check the website for final session titles, abstracts and speakers.

SHAREPOINT ADMINISTRATION

HAD206: BUILDING A SHAREPOINT 2010 EXTRANET
MICHAEL NOEL

Organizations planning for Extranet access to SharePoint 2010 or faced with providing access to an intranet from multiple internal authentication platforms often find it challenging to properly architect SharePoint for extranets, to isolate content, and to manage identities across disparate systems. The complexity involved in understanding how to isolate content from a security perspective but still provide for a collaborative space for end users is complex, and if not done correctly can lead to security breaches and confusion. This session focuses on understanding the various extranet models for SharePoint 2010 and providing real-world guidance on how to implement them. Covered are extranet content models and extranet authentication options, including claims-based authentication and also covering advanced options using tools such as Microsoft's Forefront Identity Manager (FIM) 2010 to centralize identity management to SharePoint 2010 farms, allowing for better con-

SharePoint Sessions

trol, automatic account provisioning, and synchronization of profile information across multiple SharePoint authentication providers.

- Review Extranet design options with SharePoint 2010
- Understand the need for identity management across SharePoint farms
- Examine real-world deployment guidance and architecture for SharePoint environments using multiple authentication providers

HAD305: END TO END SECURITY FOR SHAREPOINT FARMS
MICHAEL NOEL

One of the biggest advantage of using SharePoint as a Document Management and collaboration environment is that a robust security and permissions structure is built into the application itself. Authenticating and authorizing users is a fairly straightforward task, and administration of security permissions is simplified. Too often, however, security for SharePoint stops there, and organizations don't pay enough attention to all of the other considerations that are part of a SharePoint security stack, and more often than not don't properly build them into a deployment. This includes such diverse categories including Edge, Transport, Infrastructure, Data, and Rights Management Security; all areas that are often neglected but are nonetheless extremely important. This session discusses the entire stack of Security within SharePoint, from best practices around managing permissions and ACLs to comply with Role Based Access Control, to techniques to secure inbound access to externally-facing SharePoint sites. The session is designed to be comprehensive, and includes all major security topics in SharePoint and a discussion of various real-world designs that are built to be secure.

- Understand how to use native technologies to secure all layers of a SharePoint environment, including Data, Transport, Infrastructure, Edge, and Rights Management.
- Examine tools and technologies that can help secure SharePoint, including AD Rights Management Services, Forefront Unified Access Gateway, SQL Transparent Data Encryption, and more.
- Understand a Role-Based Access Control (RBAC) permissions model and how it can be used to gain better control over authorization and access control to SharePoint files and data.

SharePoint Sessions

HAD308: HEAVY METAL POWERPIVOT **JASON HIMMELSTEIN** **CORNELIUS J. VAN DYK**

PowerPivot is the shiny new toy in the SharePoint toolbox, but installing and configuring this powerful new addition can be a daunting task. This session will help you navigate through the pitfalls and traps to a successful implementation. We'll show you the best practice for configuration and discuss some implementation choices and the reasoning behind them. When it's all said and done, you'll see some flashy examples of PowerPivot in action.

HAD309: PAIN FREE SHAREPOINT UPGRADES AND PATCHING **JASON HIMMELSTEIN** **CORNELIUS J. VAN DYK**

In the modern SharePoint environment, administrators and developers are all too aware of the perpetual cycle of updates and service packs. SharePoint has a bi-monthly upgrade cycle known as the Cumulative Updates or CUs for short. Unfortunately, as every battle scarred admin can attest, there is NO undo functionality with these patches. Unlike Exchange, SharePoint patches and updates cannot be uninstalled which means if the patch didn't work, or worse yet, broke something in your environment, you're in for a world of hurt. Having lived through such experiences multiple times, we've developed a method that takes the pain out of the SharePoint upgrade process. Come and let us share our battle-tested approach to upgrading your farm without the pain, hassle and most importantly, without the risk that is usually associated with SharePoint upgrades.

HAD202: SHAREPOINT GOVERNANCE, PART I: BUSINESS, PEOPLE AND PROCESS **DAN HOLME**

SharePoint Governance is a buzzword, but why? Governance itself is not new. SharePoint, however, is a platform for delivering business solutions. As such, SharePoint shines a spotlight on everything that's good and bad about your business processes, project management, change management, information management policies, and IT service delivery. SharePoint forces organizations to realize that governance—from the business strategic to the technical level and everywhere in between—is critical.

In this comprehensive discussion of business and service governance, SharePoint MVP Dan

Holme brings together elements of respected management, project and development frameworks, informed by his experience with and lessons learned from enterprises around the world. Dan identifies the critical factors for successful governance, including vision, roles & responsibilities, accountability, measurability, process, and iteration. You come away with messages you can use to understand and communicate the role of SharePoint to your organization, an invaluable framework with which to translate requirements to design, guidance for avoiding requirement gathering spin-cycles, and an understanding of the strategic, cultural and procedural components of a successful SharePoint implementation.

HAD303: SHAREPOINT GOVERNANCE, PART II: ARCHITECTING SHAREPOINT FOR SCALABILITY AND ENFORCEABLE GOVERNANCE **DAN HOLME**

You've read the white papers, you've "Binged" governance. But how, exactly, do you design a SharePoint implementation that allows you to enforce your governance policies for IT assurance, information management, and information architecture? What is the relationship between architecture and governance? How can you ensure that your architecture will scale with the growing and changing needs of your business without becoming unmanageable? In this session, SharePoint MVP and governance thought leader Dan Holme explores the technical side of governance, and shares the secrets for creating a logical and physical SharePoint architecture that effectively supports the information and service management requirements of your governance plan. You will learn how to enforce your governance policies with the optimal model of SharePoint farms, Web applications, site collections, and other components. You will gain a deeper understanding of the intricacies and challenges of designing the logical and physical structure of SharePoint. And you will take away practical, blueprint-like guidance to what a governable SharePoint model might look like in your enterprise.

HAD207: SHAREPOINT LOGGING & DEBUGGING: THE TROUBLESHOOTER'S BEST FRIEND **JASON HIMMELSTEIN** **CORNELIUS J. VAN DYK**

Troubleshooting and debugging issues in Enterprise SharePoint farms is a daunting task at best. SharePoint 2010 provides the tools to tackle the task, but not the roadmap. Come and join us as we lift the veil on the new and excit-

ing features in SharePoint 2010, providing the roadmap to save you a ton of time every time you troubleshoot or debug an issue in SharePoint. Reclaim your evenings and week-ends once and for all by taming the SharePoint debugging beast!

HAD304: USING SQL SERVER 2012 DATABASE MIRRORING FOR SHAREPOINT CONTENT DATABASES **MICHAEL NOEL**

SQL Server 2012, known previously as code-name "Denali" includes some major improvements in Database mirroring concepts, allowing for up to four copies of SharePoint databases to be created on local or remote SQL Servers. In addition, SQL Server 2012 allows for those copies to be a mixture of both synchronous and asynchronous replicas, allowing for SharePoint administrators to utilize both high availability and remote disaster recovery at the same time. These incredibly powerful features allow SharePoint architects the ability to have unprecedented flexibility in designing a disaster recovery plan for SharePoint. This session focuses on a discussion of the changes in SQL Server 2012 Database mirroring and how they can be used to build more redundancy into a SharePoint environment. Covered are functional implementations steps and best practices for implementation, as well as any caveats associated with the process.

- Understand the new Database mirroring options with SQL Server 2012, including advanced multi-copy synchronous and asynchronous models
- Examine Best Practice architecture and detailed design options for SharePoint databases with SQL Server 2012
- Gain prescriptive advice on the specific steps required to enable database mirroring for SharePoint databases with SQL Server 2012

HAD201: WISH I'D HAVE KNOWN THAT SOONER: SHAREPOINT INSANITY DEMYSTIFIED **DAN HOLME**

After years of helping organizations around the world to deploy and implement SharePoint, Dan Holme has found that there are certain pain points that almost everyone encounters. Some are confusing concepts. Some are bad decisions driven by Microsoft's UI and documentation. Some are due to unnecessarily complex terminology. And some because there are things that SharePoint should do, but can't. In this session, Dan will share the most common and problematic scenarios, and their solutions, with the goal of saving you pain, time, and money. Think of

this session as “Lessons Learned,” “Best Practices,” or “From the Field” on steroids. Whether you’re new to SharePoint or a seasoned veteran, in this grab-bag session there will be treasures for you! Among the topics in this session: Remote BLOB Store, managed accounts, claims-based authentication, alternate access mappings, and application pools.

SHAREPOINT DEVELOPMENT

HDV311: BUILDING CUSTOM APPLICATIONS (MASHUPS) ON THE SHAREPOINT PLATFORM

TODD BAGINSKI

Custom applications that combine components from several different systems, services, and data sources are more commonplace in today’s world than ever before. And they are usually the most fun to build! This session shows how to combine Business Connectivity Services, the SharePoint client object model, SharePoint Search, Silverlight, Bing Maps, Twitter, the Digital Assets Library (Images & Videos), SharePoint list data, and even SharePoint’s new rating functionality to create a “mashup” application that provides a wide variety of functionality. You will learn how to combine all of these components to create eye-catching applications built on the SharePoint framework.

HDV307: CORE SHAREPOINT LIST DEVELOPMENT

WOUTER VAN VUGT

The SharePoint List is a remarkable piece of technology. Using its multi-layered design you can easily define interesting new ways for people to interact with data. Given its pervasiveness there are many different ways you can trick out a list for users, IT pros and developers. This session is all about using Visual Studio to provide impressive new views and business-driven forms using out-of-the-box technology. Meaning, no InfoPath or other forms designers, but pure C&C (Code and CAML, the breakfast of champs) to provide the most tuned integration into your user’s world. You will leave this session able to create the very best LOB integrated forms using rich dynamic pickers without the need for BCS. You will also be able to enhance views to a degree you didn’t think possible using the example of a Bing maps integrated list view Web Part. Complete with Fluent Ribbon support. All in all, SharePoint Lists will never be a boring topic for you again.

HDV310: CREATING INTERNET FACING WEBSITES WITH SHAREPOINT 2010

TODD BAGINSKI

This session will demonstrate how to create compelling Internet facing websites with SharePoint 2010. In this session, you will learn how to use the web content management capabilities SharePoint provides, as well as custom components built on the SharePoint framework, to create unique user interface and navigation components. You will also learn how to optimize page load performance, enable anonymous users to rate content in your websites, and fine tune your sites for maximum search engine optimization. This session will showcase techniques used on the official Microsoft SharePoint, Visio, and Lync marketing websites.

HDV308: ENTERPRISE DEVELOPMENT WITH SHAREPOINT

WOUTER VAN VUGT

One of the many mistakes for a new SharePoint developer to make is misunderstanding the common deployment scopes for projects. Apart from the apparent need for sharing code because of this site collection deployment scope, commonly sound software design principles also move you towards sharing code versus copying it (hopefully). The difficulty then becomes how to facilitate this code sharing. Code sharing is not easy. It creates headaches related to versioning, building your products, installation, and upgrades without breaking stuff. Basically, in this session we will show you how to share code the right way. Based on real-world examples, this session will show you how to structure projects, how to build them and how to keep developers happy with useful new tools and scripts.

HDV312: GETTING STARTED WITH BCS DEVELOPMENT

TODD BAGINSKI

In this session, developers will learn what Business Connectivity Services (BCS) is, why they would want to use it to build line-of-business applications, and the common components that make up a BCS solution. This session shows how to use External Content Types, External Lists, Associations, Business Data Web Parts, .NET Assembly Connectors, and SharePoint Search integration to create line-of-business application functionality with the BCS. This session also demonstrates how to brand user interface components and shows how all of the BCS and SharePoint APIs may be used to build custom user interfaces that integrate with the BCS.

SharePoint Sessions

HDV306: MAXIMIZING THE BENEFITS OF IN-PLACE RECORDS MANAGEMENT

JOHN HOLLIDAY

SharePoint 2010’s In-Place records management features offer users great flexibility to declare records wherever they are without having to move or copy them to a separate Records Center site, but these features can create headaches for IT when it comes to managing record storage. It can also be problematic for professional records managers who need finer control over record classification, security and e-discovery. In this session, we’ll explore ways to extend the out-of-the-box records management architecture to build custom in-place records management solutions that are extensible and fully scalable.

HDV309: REAL WORLD SANDBOXED SOLUTIONS

WOUTER VAN VUGT

You’ve been hearing about the various ways that the SharePoint Solution Sandbox limits your ability to develop software. Things like lacking support for the SPGridView, no SPWebPartManager and hey, you can’t create Web Part connections either. That is not the full sandboxed picture. Come learn the many ways in which the SharePoint Solution Sandbox enables you to build software capable of reaching the masses. Explore interesting ways to build multi-page wizard-like forms. Learn how to build rich master-detail views using connected Web Parts. Find ways to handle sending emails with grace. And best of all, provide the infrastructure for timer-based operations similar to the SharePoint timer jobs. When this session is over, you will have the tools necessary to build the sandboxed software your client wants.

SHAREPOINT NO-CODE SOLUTIONS

HNC301: DATA VISUALIZATION MADE SIMPLE

PAUL J. SWIDER

One key factor driving the self-service BI market is the growing volume and complexity of data. As a result, enterprises will adopt new interactive reporting tools designed to put more data analytics capabilities into the hands of business users. In this session you will learn what self-service reporting tools are available in SharePoint and how they can be used to create business solutions.

SharePoint Sessions

HNC302: BUSINESS PROCESS MANAGEMENT USING CONTENT TYPES, INFOPATH AND WORKFLOW

PAUL J. SWIDER

Organizations tend to have many business processes. Discovering and automating business processes can be useful to organizations for a number of reasons including better overall process management and maintenance. In this session you will learn how to extend the content type, InfoPath and workflow features of SharePoint to automate real-world business processes.

HNC303: DOCUMENT MANAGEMENT SOLUTIONS

PAUL J. SWIDER

Do you know how to fully leverage the rich set of tools SharePoint provides for building document management solutions? Lists, Web Parts and Features can be used to extend the functionality and create customized document management solutions. In addition, SharePoint 2010 introduces the Managed Metadata store as the enterprise tool for managing taxonomy. In this session you will learn how to add rich document management functionality to your SharePoint sites using the managed metadata service and document management Features.

HNC304: SHAREPOINT IN THE CLOUD: NO-CODE SOLUTIONS FOR SHAREPOINT ONLINE

CRAIG YELICK

What can you accomplish when it's not your server and you can't write code? Despite being in the cloud, individuals or Site Managers still have ample opportunities to develop solutions involving lists and workflows. In this session you can learn how, in just a few minutes, you can start from nothing and have a SharePoint site collection up and running in a Microsoft datacenter, for just a couple of bucks per user per month. Even if you do in fact control your own server, being able to develop, deploy and test no-code solutions is a great skill to master.

SHAREPOINT DEVELOPMENT / IT PRO

HDV305: RECORD CLASSIFICATION, ROUTING AND GROUPING STRATEGIES

JOHN HOLLIDAY

Like it or not, manually setting up a Records Center to process records requires a lot of steps. Wouldn't it be easier to use a PowerShell script? Even with a script, there are lots of ways to slice and dice your file plan to get the configuration just right. In this session, we'll explore the ins and outs of Records Center configuration using a variety of tools (including PowerShell) to setup content types, retention formulas and routing rules correctly.

SEARCH

HDV304: LEVERAGING SHAREPOINT SEARCH FOR RECORDS MANAGEMENT

JOHN HOLLIDAY

Search applications are all the rage nowadays, and they are particularly useful when designing records management solutions. Whether enabling records managers to quickly find and declare records, or providing litigation support and e-discovery tools, SharePoint search technologies offer a powerful platform for enhancing the records management user experience. In this session, you'll learn how to integrate the out-of-the-box search components with the full range of records management capabilities provided by the SharePoint platform.

FUNDAMENTALS OF SHAREPOINT DEVELOPMENT

HDV203: CUBES, SCORECARDS, CHARTS, AND DASHBOARDS START TO FINISH IN SHAREPOINT 2010

SCOT HILLIER

SharePoint has many powerful business intelligence features that help display and analyze data. However, SharePoint assumes that all of the data storage structures are created already. In this introductory session, we'll examine business intelligence from start to finish. We'll go over the basics of data warehouse design and cube creation. Then we'll use that data to create beautiful dashboards in SharePoint. Attendees will leave the session with a good understanding of the process for creating the artifacts found in a BI solution.

HDV202: DATA ACCESS START TO FINISH IN SHAREPOINT 2010

SCOT HILLIER

SharePoint has many different sources of data that you can access in your solutions. These sources include list data, document libraries, databases, and Web services. In this introductory session, we'll take a tour of all the different available data sources and show how to perform basic CRUD operations against them. Along the way, attendees will learn the basics of server-side data access, client-side data access, and Business Connectivity Services. Attendees will exit with a good overview of the various data sources and data access techniques.

HDV201: PAGES AND NAVIGATION START TO FINISH IN SHAREPOINT 2010

SCOT HILLIER

SharePoint is built on top of ASP.NET, which means it makes use of the ASP.NET page model when processing. In this introductory session, we'll examine and explain the ASP.NET page model and then leverage it to understand how to create custom pages and navigation systems. Along the way, we'll learn a little bit about branding SharePoint sites. Attendees will exit the session with a good overview of how page processing and navigation are handled in SharePoint sites.

SHAREPOINT ONLINE

HSO201: LIGHTNING STRIKES - MOVING GROUND TO CLOUD WITH OFFICE 365 AND SHAREPOINT ONLINE

CHRIS MCNULTY

Microsoft's cloud-based version of SharePoint 2010, Office 365, can present a challenge to traditional SharePoint implementers. In this session, we'll review the major strategic pros and cons in moving to the cloud. Office 365 simplifies infrastructure planning but also constrains traditional solution techniques used for on-premises SharePoint. In this session, we'll review:

- Overview, capabilities and weaknesses of Office 365
- Planning and techniques for content migration
- Development best practices for Office 365
- How to administer a cloud solution

Afterwards, you'll have a roadmap for what to do in cloud, how to get there, and what NOT to do.

CSP12: IN THE CLOUD: INFORMATION ARCHITECTURE MATTERS
JASON BATCHELOR

Clouds are everywhere, everyone sees them, and eventually most people will be using them – but can you retain their cost savings? “Outsourcing” to the cloud makes financial sense, but just because you are moving your technical architecture to the cloud does not remove the liability placed upon the organization to have a thoughtful Information Architecture in place. In this session we will go over key design considerations that must be made when developing a cloud-based Information Architecture.

CSP13: SHAREPOINT ONLINE: DATA AND APPLICATION INTEGRATION STRATEGIES
CRAIG YELICK

Every organization has important transactional data, like customers, sales, accounting, manufacturing and so on, that can't be migrated to SharePoint. Each of these data sources is served by a line of business application that probably knows nothing about SharePoint. Attend this session to discover the many options you have for integrating data and applications with SharePoint Online. You'll be pleasantly surprised to find that being “in the cloud” doesn't mean isolation and separation. With varying degrees of effort, SharePoint Online can be integrated with your existing data sources and applications.

CSP15: HYBRID SHAREPOINT ENVIRONMENTS: KEEPING YOUR FEET ON THE GROUND WHILE BEING IN A CLOUD
JASON BATCHELOR

Hybrid environments are a reality, often driven by technology and business drivers, but what about the Information Architecture, is it business driven? If not, it should be. Utilizing a hybrid environment might make sense for your organization, both technically and financially. However, information fragmentation is a realistic problem that if not planned for appropriately will turn the “black” to “red”. In this session we will review real-world examples that have proven successful in hybrid environments with design considerations towards eventually moving completely into the cloud.

SESSIONS PRESENTED BY TEAMS FROM MICROSOFT

SMS07: BUILDING THE PERFECT BI SEMANTIC MODEL FOR CRESCENT

SMS01: DATABASE DEVELOPMENT WITH SQL SERVER DATA TOOLS (PROJECT JUNEAU)

SMS05: DEEP DIVE INTO THE NEW FEATURES OF POWERPIVOT IN SQL SERVER 2012

SMS04: STREAMINSIGHT: ADDING A REAL-TIME TOOL TO YOUR BELT

SMS08: INTRODUCING SQL SERVER 2012 DATA QUALITY SERVICES

SMS03: LEAVE THE 90S BEHIND: NEW WAYS TO DEVELOP, DEPLOY, UPGRADE AND MIGRATE YOUR DATABASE

SMS09: SQL SERVER 2012 ALWAYSON SOLUTION OVERVIEW

SMS10: SQL SERVER 2012 DATABASE ENGINE IMPROVEMENTS FOR THE DBA

SMS11: SQL SERVER 2012 INTEGRATION SERVICES OVERVIEW

SMS12: UPGRADING TO SQL SERVER 2012

SMS02: WHAT'S NEW FOR APPLICATION DEVELOPERS IN SQL SERVER 2012 AND SQL AZURE

SMS06: WHAT'S NEW IN SQL SERVER 2012 REPORTING SERVICES

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KEYNOTE

KEYNOTE: SQL SERVER 2012: THE CLOUD-READY INFORMATION PLATFORM
SHAWN BICE

SQL SERVER TRACK

SQL307: DEADLOCKING FOR MERE MORTALS
JONATHAN KEHAYIAS

While troubleshooting deadlocking in SQL Server has gotten easier in SQL Server 2005 and 2008, it continues to be a constant source of questions in the forums online. This session will look at the most common deadlocks asked about on the forums, and how to troubleshoot them using the various meth-

SQL Server Sessions

ods available to DBAs in SQL Server 2005 and 2008; including Trace Flags, SQL Trace, Event Notifications and Extended Events.

SQL302: DMV EMERGENCY ROOM!
GLENN BERRY

If you have ever been responsible for a mission critical database, you have probably been faced with a high stress, emergency situation where a database issue is causing unacceptable application performance, resulting in angry users and hovering managers and executives. If this hasn't happened to you yet, thank your lucky stars, but start getting prepared for your time in the hot seat. This session will show you how to use DMV queries to quickly detect and diagnose the problem, starting at the server and instance level, and then progressing down to the database and object level. Based on the initial assessment of the problem, different types of DMV queries will help you narrow down and identify the problem. This session will show you how to assemble and use an emergency DMV toolkit that you can use to save the day the next time a sick database shows up on your watch in the database ER!

SQL335: ENRICHING THE DESIGN OF A SQL SERVER 2008 R2 ANALYSIS SERVICES UDM
PETER MYERS

Join Peter Myers as he describes and demonstrates how to enrich the design of the Unified Dimensional Model (UDM) beyond the data itself. In the most basic way, the UDM combines the best aspects of traditional OLAP analysis and relational reporting. In doing so it presents a "single version of the truth" that can satisfy multidimensional analysis and relationship reporting. But that's just the tip of the iceberg! The UDM can also define server-side calculations, Key Performance Indicators (KPIs), actions, perspectives, and translations to provide a richer experience than just querying for results from a database. So beyond storing your data, the UDM can store information about how your data is represented and how it should be delivered and presented to the business user. This presentation is targeted at IT professionals with experience developing UDMs and equally for non-IT professionals interested to understand and evaluate the UDM.

SQL Server Sessions

SQL321: FILTERED INDEXES AND FILTERED STATISTICS: THE GOOD, THE BAD AND THE UGLY

KIMBERLY L. TRIPP

SQL Server 2008 introduced a new type of index/statistic that has some unbelievable power. However, it also has some troubles. In this session, I'll show you when, why and how to leverage this powerful feature on SQL Server 2008 and higher. And, I'll also show you where they're a bit problematic with regard to updates. I'll give you solutions you can use to eliminate the problems! I'll focus on SQL Server 2008 and higher and give some insight into any new features/changes that are available.

SQL218: FOLLOW THE RABBIT: WRAP-UP Q&A

**KIMBERLY L. TRIPP
PAUL RANDAL**

Now a conference staple, Kimberly and Paul come loaded with slides and highlights from all of their sessions of the conference. If attendees don't ask questions, they'll start adding to the content discussed previously by diving deeper and tying in discussions they've had in breaks, after their sessions and with your questions. This is really YOUR time to ask questions! This session seems unfocused but is often not only informative but highly interactive and fun.

SQL303: HARDWARE 301: DIVING DEEPER INTO DATABASE HARDWARE

GLENN BERRY

Making the right hardware selection decisions is extremely important for database scalability. Having properly sized and configured hardware can both increase application performance and reduce capital expenses dramatically. Unfortunately, there are so many different choices and options available when it comes to selecting hardware and storage subsystems, it is very easy to make bad choices based on outmoded conventional wisdom. This session will give you a framework for how to pick the right hardware and storage subsystem for your workload type. You will learn how to evaluate and compare key hardware components, such as processors, chipsets, and memory. You will also learn how to evaluate and compare different types of storage subsystems for differ-

ent database workload types. This session will give you the knowledge you need to make sure you get the best performance and scalability possible from your hardware budget!

SQL219: PERFORMANCE TUNING THROUGH INDEXING

KIMBERLY L. TRIPP

Nonclustered indexes are the key to a server's overall health and performance, but how do you create them? Do you trust the tools to tell you which indexes to create? What do they tell you? And, are they always right? Moreover, why isn't SQL Server using a nonclustered index on a column that you have in the WHERE clause? Why does SQL Server choose one index (or one strategy) over another? How does all of this come together and how can you make the best of it? I'll start with a list of base table best practices but quickly move into how the optimizer chooses certain strategies as well as discuss how to get the most out of the tools. Finally, I'll end with demos that show how to best decide what types of indexes to create along with index consolidation best practices.

SQL226: SCALABLE APPLICATION DESIGN WITH SERVICE BROKER

ALLEN WHITE

How your business applications interact with the corporate database directly can have a dramatic impact on how successful you are, and one of the biggest issues is performance with large databases. By designing the application to use asynchronous messaging for non-critical updates you can focus performance concerns to where the timeliness is critical. SQL Server Service Broker handles the asynchronous requests quickly and efficiently, and minimizes the conflicts with your critical updates. This session will walk you through the steps to get Service Broker up and running and providing a consistent delivery of your business data.

SQL301: SCALING SQL SERVER 2012

GLENN BERRY

How can you scale SQL Server 2012? Scaling up is relatively easy (but can be expensive), while scaling out requires significant engineering time and effort. If you suggest hardware upgrades you may be accused of simply "throwing hardware at the problem," and if you try to scale out, you may be thwarted by a lack of development resources or 3rd-party

software restrictions. As your database server nears its load capacity, what can you do? This session gives you concrete, practical advice on how to deal with this situation. Starting with your present workload, configuration and hardware, we will explore how to find and alleviate bottlenecks, whether they are workload related, configuration related, or hardware related. Next, we will cover how you can decide whether you should scale up or scale out your data tier. Once that decision is made, you will learn how to scale up properly, with nearly zero down-time. If you decide to scale out, you will learn about practical, production-ready techniques such as vertical partitioning, horizontal partitioning, and data dependent routing. We will also cover how to use middle-tier caching and other application techniques to increase your overall scalability.

SQL320: STATISTICS: WHAT, WHY AND HOW THE OPTIMIZER USES THEM

KIMBERLY L. TRIPP

Even if you have the right indexes that doesn't mean that SQL Server's going to use them. Regardless of whether we're talking about adhoc queries, prepared statements or stored procedures – every system has to have accurate statistics in order to function. In this session, I'll explain what statistics are, how they get created, why you might want to add more and how statistics are updated. We'll also look at and understand what is stored with statistics and why it might become out of date as well as how to keep it up to date. I'll focus on SQL Server 2008 and higher and give some insight into any new features/changes that are available.

SQL104: T-SQL: BAD HABITS TO KICK

AARON BERTRAND

Bad habits: we all have them. SELECT * is the obvious one; but in this session you will learn about various other habits and why they can be bad for performance or maintainability. Come learn how these habits develop, what kind of problems they can lead to, and how you can avoid them. Eliminating these habits will lead to more efficient code, a more productive work environment, and - in a lot of cases - both.

SQL131: TUNING T-SQL BY ANALYZING THE PROCEDURE CACHE

BRENT OZAR

SQL Server stores tons of data about SQL statements and execution plans in memory, but unfortunately a lot of it is hard-to-query XML. I've got the fix: we'll treat it like a BI project. We'll build an ETL process to get the data out, normalize it into a reporting structure, and then make smart tuning decisions based on the aggregated findings. You'll step off the boat armed with ready-to-go scripts to do consultant-style analysis right away.

SQL322: VISUAL REPORT DESIGN: BRINGING SEXY BACK

PAUL TURLEY

Do your users have the same old, mundane table reports they've been using for decades? Stop living in the past and make your reports pop. Learn to use design patterns, best practices and visuals that pack more usable information into fewer, more usable reports. Use Reporting Services and other Microsoft BI tools to create dynamic, browse-able reports that answer important business questions at a glance and then let them explore the details to gain business insight and take action. Sure, Business Intelligence is all the rage but you don't have to invest in an entire BI platform to have fresh, usable reports. These design techniques apply to enterprise analytic solutions and smaller-scale operational reporting.

SQL416: WAIT STATISTICS: AVOIDING "KNEE-JERK" PERFORMANCE TUNING

PAUL RANDAL

One of the first things you should check when investigating performance issues are wait statistics - because SQL Server has a good idea what the problem is. Unfortunately many people misinterpret what SQL Server is telling them and jump to conclusions about how to solve the problem - what Paul calls "knee-jerk performance tuning." In this detailed session, Paul will explain and demo many of the most common wait types and show you what they REALLY mean. After attending this session you'll be able to make proper use of this powerful performance tuning technique.

PERFORMANCE

SQL230: INTRODUCTION TO SQL SERVER PERFORMANCE ENGINEERING

THOMAS GROHSER

This session will show you the techniques and methods a performance engineer will use to improve the performance of a SQL Server infrastructure. Learn how to create a synthetic workload that mimics your own and how to reproduce this workload over and over again so that you can compare changes in your infrastructure or test environment using dynamic management views and performance counters.

SQL332: TOP 10 QUERY OPTIMIZER TOPICS FOR BETTER PERFORMANCE

BENJAMIN NEVAREZ

This session will show you how a better understanding of how the Query Optimizer works can help you to improve the performance of your queries. I will show you the top 10 Query Optimizer topics that can give you the most benefit by focusing both on the concepts and practical solutions. The SQL Server Query Optimizer is a cost-based optimizer and its job is to analyze the possible execution plans for a query, estimate the cost of these plans and select the one with the lowest cost. So a better knowledge of how the Query Optimizer works can help both database developers and administrators get better performance from their databases. Several areas of the query processor will be covered including troubleshooting query performance problems and identifying what information the Query Optimizer needs to do a better job to the extreme cases where, because of its limitations, the Query Optimizer may not give you a good plan and you may need to take a different approach.

REPORTING

SQL223: DATA VISUALIZATION CHOICES

PAUL TURLEY

PowerPivot, PowerPoint, PerformancePoint, Excel and Power View - geez, Louise! How do I choose among all the reporting options? Get the scoop behind Reporting Services, PowerPivot, Tabular Semantic Models, Report Builder, BIDS, SharePoint, PerformancePoint, Excel, Excel Services and the new Power View reporting tool. Which one should I choose and can they work together? What's the best choice now and later? Do I use data stored in

SQL Server Sessions

a relational ODS, data warehouse, SSAS cubes or semantic model? We will distill all these choices to simple selection criteria and help to make sense of it all.

SQL324: POWER VIEW AND POWERPIVOT: HIGH-OCTANE SELF-SERVICE REPORTING

PAUL TURLEY

The next-generation analytic, self-service reporting tools will knock your socks off! The Power View reporting experience in SQL Server 2012 and SharePoint 2010 takes user reporting to the next level and makes data exploration fun without writing queries and code. Come see the impressive performance capabilities of BI Semantic Tabular models used with high-volume, enterprise data. Two great things that go great together!

SECURITY

SQL231: SECURE YOUR WAY TO AN EASIER JOB

MIKE WALSH

Some may call it lazy, I call it efficient. Secure your environment, enforce standards and work fewer hours. In this session we'll talk about least privilege, group- and role-based security and learn to make the new fixed server roles in SQL Server 2012 work for us.

SQL228: TRANSPARENT DATA ENCRYPTION INSIDE AND OUT IN SQL SERVER 2012

BRADLEY BALL

Security is a very important part of your job and in how data is utilized. We have many tools to make data more secure, and starting in SQL 2008 we were able to add Transparent Data Encryption to that list. Find out what it does and what it doesn't do, how it effects read-only filegroups, performance, compression (backup and row/page), what the X.509 encryption standard is and why you should be careful of what you store and where, and other advance features as well as some tips on how to manage it.

POWERSHELL

SQL325: MAINTAIN SQL SERVER SYSTEM AND PERFORMANCE DATA WITH POWERSHELL

ALLEN WHITE

Maintaining a solid set of information about our servers and their performance is critical

SQL Server Sessions

when issues arise, and often help us see a problem before it occurs. Building a baseline of performance metrics allows us to know when something is wrong and help us to track it down and fix the problem. This session will walk you through a series of PowerShell scripts you can schedule which will capture the most important data and a set of reports to show you how to use that data to keep your server running smoothly.

SQL427: MANAGE SQL SERVER 2012 ON WINDOWS SERVER CORE WITH POWERSHELL ALLEN WHITE

Windows Server 2008 introduced Server Core, the operating system without the Graphical User Interface. SQL Server 2012 is the first version of SQL Server to support Server Core. To gain the maximum efficiency from your servers you want to make use of Server Core and with PowerShell you can effectively manage SQL Server in that environment. This session will demonstrate how to manage SQL Server 2012 on Windows Server Core and provide scripts to help you perform the common tasks you need to perform on that platform.

BUSINESS INTELLIGENCE AND SHAREPOINT

SQL334: CREATING SELF-SERVICE ANALYTIC BI APPLICATIONS WITH SHAREPOINT 2010 PETER MYERS

Join Peter Myers as he introduces how business users can be empowered to create self-service analytic applications by harnessing the power of SharePoint Server 2010. The session will include an introduction to the Chart and Status List Web Parts and the three SharePoint service applications: Excel Services, PerformancePoint Services and Visio Services. Numerous compelling demonstrations will explore how dashboards can be assembled using the Office productivity tools and designers, and SharePoint Web Part pages - and notably, without the need to produce any queries or code. This is truly a session that will appeal to business users and IT professionals alike looking to understand and evaluate SharePoint Server 2010 as a productive, self-service BI platform.

This session is targeted at IT professionals with an interest in data analysis and equally for non-IT professionals interested to under-

stand and evaluate the self-service BI capabilities of SharePoint Server 2010. There is no requirement to have any experience with the SharePoint Server.

TROUBLESHOOTING

SQL422: ADVANCED RECOVERY TECHNIQUES PAUL RANDAL

The best way to be able to recover from a disaster is to be prepared! This means you must have practiced some disaster-recovery techniques before being asked to help a customer who is struggling. In this session, Paul will go beyond the simple corruption examples you've already seen and look at some of the less frequently seen issues and advanced techniques, including showing examples of when SQL Server's tools fail.

SQL SERVER 2012

SQL333: DEVELOPING A TABULAR PROJECT BI SEMANTIC MODEL IN SQL SERVER 2012 ANALYSIS SERVICES PETER MYERS

Join Peter Myers as he presents the know-how required to develop and deploy a Tabular Project BI Semantic Model - a new data modeling approach made available to developers in SQL Server 2012 Analysis Services. SQL Server PowerPivot, first released with SQL Server 2008 R2, empowers business users to create their own tabular data models in Excel 2010. In this session you will learn how the features of PowerPivot have been enhanced to support the creation of more sophisticated data models, and that these and additional features are available to the developer to create and secure larger scale solutions. This session is targeted at IT professionals with an interest in data analysis and equally for non-IT professionals interested to understand and evaluate the new data modeling capabilities delivered in SQL Server 2012 Analysis Services. Those with a background in PowerPivot and/or developing Analysis Services Unified Dimensional Models will benefit from a comprehensive overview of the new data modeling capabilities, theory and discussion to understand when each modeling choice is appropriate. All theory and demonstrations will be based on the latest publicly available beta version of SQL Server 2012 which for Analysis Services is considered to be feature complete.

SQL208: DISTRIBUTED REPLAY IN SQL SERVER 2012 JONATHAN KEHAYIAS

Testing the impact of changes and upgrades for SQL Server has always been a complex problem for database administrators. This session will look at the Distributed Replay Utility in SQL Server 2012 and how it can be used to replay workloads to test changes to SQL Server in a scalable manner that exceeds the previous capabilities provided by SQL Server Profiler and the RML Utilities. Come learn how to replay workloads using multiple systems to better simulate mission critical workloads in SQL Server 2012.

SQL215: MYTHBUSTERS 3: EVEN MORE MISCONCEPTIONS ABOUT SQL SERVER PAUL RANDAL

It's amazing how many myths and misconceptions have sprung up and persisted over the years about SQL Server - after 10 years helping people out on forums, newsgroups, and customer engagements, Paul's heard it all. Building on the success of the first two DBA Mythbusters sessions, Paul brings another 75 minutes of myth debunking of a third new set of myths and misconceptions in this fast-paced session on how SQL Server operates and should be managed and maintained. Come and see how many YOU get right!

SQL314: SAN FEATURES FOR SENIOR DBAS BRENT OZAR

SAN snapshots and SAN replication can be the DBA's best friend. They bring one-click disaster recovery options to antiquated SQL Server 2000 instances, and one-minute backup options to even the largest data warehouses. In this session, we'll cover how my clients have saved time, money, and manpower with these features. We'll briefly dig into the "how" using NetApp as an example SAN, and then cover the SQL Server management techniques that work regardless of the SAN vendor.

SQL212: SCALING SQL WITH SOLID STATE BRENT OZAR

SSD prices are coming down and adoption is going up. My clients have used them to solve all kinds of performance problems, and we've found some surprising results. In this session, I'll explain the internals of these fast drives and show the pros and cons of the various connection methods (SATA, PCI Express, SAN). Then we'll switch over to the SQL Server world to see how to tell when and where you need SSDs. You'll even get real-world before-and-after metrics to help make the case to management.

SQL206: SQL SERVER 2012 HIGH AVAILABILITY ENHANCEMENTS

JONATHAN KEHAYIAS

SQL Server 2012 offers enhancements to the database engine that make it the most highly available version of SQL Server to date. This session will show you the new features used to build highly available SQL Server 2012 database systems using Availability Groups and Failover Clustering enhancements to provide a very predictable failover configuration for your critical line of business systems.

SQL329: WHAT? NO GUI? IMPLEMENTING SQL SERVER 2012 ON WINDOWS SERVER CORE

EDWIN SARMIENTO

SQL Server DBAs have relied so much on graphical user interface (GUI) to administer and manage database servers. So, why take away the GUI? If you're more into using the command-line and PowerShell to manage your servers, come to this session to learn how to implement SQL Server 2012 on Windows Server Core.

SQL104: WHAT'S NEW IN SQL SERVER 2012 – ENGINE AND TOOLS

AARON BERTRAND

SQL Server 2012 delivers many highly anticipated features that some feel are long overdue. In this session you will get a first-hand look at many of these new features relating to the engine (contained databases, AlwaysOn, and T-SQL enhancements), client tools (Management Studio, Books Online, and "Juneau"), and changes to setup and system requirements. You'll also learn about some features that will not be present in SQL Server 2012, deprecated functionality that will stop working, and how to submit feedback to Microsoft about bugs and feature suggestions for current and future versions of SQL Server.

SQL SERVER TDM TRACK

STDM201: KEY BENEFITS OF SQL SERVER 2012

This session provides an overview of the most important new features in SQL Server 2012. You'll learn how these features add value to your business operations as well as seeing how these features contribute to your ROI.

STDM202: MAXIMIZING SQL SERVER 2012 AVAILABILITY

This session covers the different availability features that are included in SQL Server 2012. You'll learn about all of the different SQL Server options and will learn which availability option is best suited for your own situation. You'll learn about failover clustering, database mirroring, log shipping, replication and the new AlwaysOn Availability Groups feature.

STDM203: EVALUATING SQL SERVER FOR THE PUBLIC AND PRIVATE CLOUD

SQL Server is typically thought of as a stand-alone server but SQL Server can also take part in both the public and the private cloud. This session explains the differences in the public and the private cloud and shows how you can incorporate SQL Server into the private cloud with VMM 2012. It will also discuss how you can use SQL Azure to give your applications global reach.

STDM204: MAXIMIZING DEVELOPER PRODUCTIVITY WITH SQL SERVER DATA TOOLS

The new SQL Server Data Tools revolutionize SQL Server database development. This session introduces the new SQL Server Data Tools. You'll see how SSDT can improve your developer productivity and application quality by enabling model-based database development and allowing developers to work with multiple project types using a single development environment.

STDM205: EMPOWER YOUR USERS WITH SELF SERVICE BI AND DATA VISUALIZATION

This session explains how self-service BI extends the reach of BI to users that might not normally have access to BI information. It will explain how PowerPivot for Excel can be managed by IT to enable collaboration and provide management for your important decision support spreadsheets. You'll also see how the new Power View feature can enable end-users to create their own graphical data driven reports and publish them to the web or the organization's SharePoint sites.

STDM206: SQL SERVER 2012 LICENSING SCENARIOS

This session introduces the new editions in SQL Server 2012 and it also discusses the new licensing changes. In addition, it explains how virtualization influences SQL Server in licensing. Different examples will

SQL Server Sessions

presented illustrating the licensing cost for multiple scenarios including small, medium and large businesses.

SQLPANEL01: RUNNING MISSION CRITICAL APPLICATIONS ON SQL SERVER 2012

In this panel, experts will field questions from the audience regarding using SQL Server as a relational database for mission critical applications. The panel will cover a range of topics including performance, scalability, security and availability.

SQLPANEL02: BI: TURNING DATA INTO INFORMATION

In this panel, experts will answer questions from the audience about using SQL Server Business Intelligence features. The panel will discuss topics ranging from Analysis Services and Reporting Services to PowerPivot and Power View.



SQLSERVERCENTRAL.COM TRACK

SSQ107: AN ENCRYPTION PRIMER FOR SQL SERVER

STEVE JONES

SQL Server has a number of encryption features that allow you to better secure your data. This session will examine the basics of encryption and cover the various ways in which you can encode and decode your data to protect it from unauthorized access. Cell level encryption, Transparent Data Encryption, and backup encryption will all be discussed. This session is designed for those who want to learn the basics of how to protect their data.

SSQ104: COMMON BACKUP PROBLEMS AND HOW TO DEAL WITH THEM

GRANT FRITCHEY

SQL Server backups can be burdensome to set up and maintain. All sorts of different problems can occur. This session targets the most common problems encountered while working with SQL Server backup and shows you how to identify these issues in your environment. In fact, I'll walk you through how to prevent these common issues from ever

SQL Server Sessions

cropping up within your systems in the first place. Be prepared for information you can take back to the office and put to work right away making your system backups more reliable. With backups running correctly all the time, you'll be protecting your systems better, and feeling a lot less stress when it times to perform an emergency restore.

SSQ203: HOW TO CONFIGURE DATABASE OPTIONS FOR OPTIMAL PERFORMANCE

BRAD MCGEHEE

Each database has a collection of individual properties, many of which can have a significant effect on a database's behavior, performance and availability. Most of the time you want to leave these settings at their defaults, but there are some cases where you might need to make some changes. As the DBA, you should be familiar with all of the settings and what they do. In this session, we will explore every database setting, spending extra time on those settings that are most critical to SQL Server databases. In addition, you will be provided with a script you can use to identify your current database settings, which can be used to help you determine if your database settings are optimally set for your environment. This session is designed for all DBAs who still have yet to master the specifics of database configuration settings.

SSQ202: HOW TO DEFRAGMENT INDEXES FOR PEAK PERFORMANCE

BRAD MCGEHEE

Over time, as indexes experience INSERTS, UPDATES, and DELETES, a normal process called index fragmentation typically occurs in OLTP databases. Index fragmentation takes two forms. First, it can cause gaps on data pages that waste disk and data cache space. Second, it can scatter pages throughout the database as the logical and physical order of the pages get out of synch. Added together, both of these can result in heavy index fragmentation which can reduce query performance. In this session you will learn the best ways to identify and correct index fragmentation. This includes learning how to identify which indexes need defragmentation using `sys.dm_db_index_physical_stats`, how to determine if rebuilding or reorganizing indexes is the best approach, and how to create index defragmentation jobs. The session will include

many demos to show how fragmentation occurs, how to detect it, and how to remove it. This session is designed for all DBAs who still have yet to master the fundamentals of index defragmentation.

SSQ205: TOP TIPS FOR WRITING BETTER T-SQL STORED PROCEDURES

GRANT FRITCHEY

T-SQL provides many different ways to accomplish the same task, and as you might expect, some ways are better than others. In this session, you will learn specific techniques, that if followed, will make you a better T-SQL developer. The session is jam-packed with practical examples and is designed for administrators and developers who want to bring their T-SQL skills to the next level. In fact, you will be able to immediately implement these tips in your current projects once you get back to your office.

SSQ101: HOW TO MONITOR YOUR SQL SERVER FOR PERFORMANCE AND HIGH AVAILABILITY

BRAD MCGEHEE

Is your phone ringing off the hook at the first sign of SQL Server performance or availability problems? Let's hope not. As a proactive DBA, it is your job to regularly and thoroughly monitor your servers. In some cases, close monitoring can help you detect small problems before they become big problems. In cases outside of your control, you will want to be notified immediately of the problem so you can take quick action to resolve it. In this session, you will learn what aspects of your SQL Servers you should monitor and how best to monitor them. In fact, you will be presented with a checklist that you can follow to help ensure that you are monitoring the right things in the most efficient manner. This session is designed for novice or accidental DBAs who are still learning how to best administer their SQL Server instances.

SSQ208: HOW TO TAKE ADVANTAGE OF CONTAINED DATABASES IN SQL SERVER 2012

STEVE JONES

One of the problems with databases in SQL Server is the dependency of the database on various parts of the host instance. In SQL Server 2012 there is an enhancement to the database format that allows for partial containment of your database, and will make the movement, migration, and management of the databases much simpler. This session, which includes many demos, introduces the new database structure and explains how it can be used in your environment.

SSQ209: HOW TO MANAGE UNSTRUCTURED SQL SERVER DATA

STEVE JONES

More and more of our data does not fit neatly into a structured, relational model of rows and columns of data. In this session, you will learn about how SQL Server stores unstructured data, with a special emphasis on how to use Filestream, which integrates SQL Server with the NTFS file system by storing varbinary(max) binary large object data as files stored within the file system. You will also learn about the new SQL Server 2012 filetable feature, which builds on Filestream and provides the ability to read, write, and update Filestream objects directly through the file system. This session is designed for DBAs and developers who need to learn how to manage large quantities of unstructured data.

SSQ206: T-SQL DEPLOYMENT AND CONTINUOUS INTEGRATION BEST PRACTICES

GRANT FRITCHEY

While most T-SQL developers focus on writing quality T-SQL code and efficient queries, what they often forget is how it should best be deployed. This includes deployment of new applications, as well as upgrades and bug fixes. In this session, you will learn many best practices involving the principles of continuous integration, such as maintaining a code repository, automating builds, self-testing, auditing, automated deployment, and much more. This session is designed for both DBA administrators and developers who want to optimize their T-SQL deployment process.

PANNELS AND Q&A SESSIONS

SQLPANEL01: RUNNING MISSION CRITICAL APPLICATIONS ON SQL SERVER 2012

MODERATOR: MICHAEL OTEY

SQLPANEL02: BI: TURNING DATA INTO INFORMATION

MODERATOR: MICHAEL OTEY

CHECK ONLINE FOR ABSTRACTS AND SPEAKERS AS THEY ARE ADDED.



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Your attendance to the conference may be tax deductible. Visit www.irs.ustreas.gov. Look for topic 513 - Educational Expenses. You may be able to deduct the conference fee if you undertake to (1) maintain or improve skills required in your present job; (2) fulfill an employment condition mandated by your employer to keep your salary, status, or job.

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Registration & Cancellation Policy: Registrations are not confirmed until payment is received. Cancellations before February 24th, 2012 must be received in writing and will be refunded minus a \$100 processing fee. After February 24th, 2012 cancellations and no shows are liable for full registration; it can be transferred to the next Conference within 12 months or to another person. Microsoft, Microsoft .NET, ASP.NET, Visual Studio.NET, Microsoft SQL Server, Exchange and Windows are either trademarks or registered trademarks of Microsoft Corporation. All other trademarks are property of their owners.

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MGM Grand, Las Vegas

The MGM Grand is undergoing a \$200,000,000 room transformation and DevConnections attendees are the first to see it. If you are one of the first 1,500 to register for DevConnections and make your hotel reservation through our conference registration desk, you'll get one of the gorgeous renovated rooms.

Choose from over 30 restaurants at the MGM Grand, shows, the casino, the Grand Pool, the Grand Spa and Fitness Center, plus all that Las Vegas offers is just a short walk or cab ride or hop on the monorail to travel to some of the highest rated restaurants and best shows in the world. As you walk around the iconic MGM Grand, you're right in the heart of what's happening on the Las Vegas Strip.

The special conference rate will be honored starting two days before the start of conference through two days after the end of the conference, based upon availability. Space is limited so reserve your room early by calling the conference hotline at 800-438-6720 or 203-400-6121. All reservations must be guaranteed with a major credit card to confirm room.

ATTIRE

The recommended dress for the conference is casual and comfortable. Please bring along a sweater or jacket, as the ballrooms can get cool with the hotel's air conditioning.

Sponsorship/exhibit information For sponsorship information, contact Rod Dunlap 480-917-3527 or rod@devconnections.com See Web site for more details: www.DevConnections.com

Pre-Con Workshops

THE COST OF A WORKSHOP IS IN ADDITION TO THE REGULAR CONFERENCE FEE

VISUAL STUDIO WORKSHOPS SUNDAY, MARCH 25, 2012

9AM - 4PM



\$399 - VPR201: FROM ZERO TO XAML IN 1 DAY PAUL D. SHERIFF

Do you have old FoxPro, Access, VB6 or Windows Forms applications that you want to move to Silverlight or WPF? Do you want to learn XAML to prepare for writing Windows 8 applications? In this one-day workshop, you will learn the basics of XAML and how to create business application forms. You will start out learning the basics of XAML including the various controls, styles, resources and data binding. Next you will combine what you learn to create some navigation and business application forms that you can use right away in your own applications. Finally, we'll look at one of the most powerful XAML controls, the ListBox, which will show you the true power of XAML in the context of business applications. At the end of the day you will walk away with the skills you need to bring your old applications forward into Silverlight or WPF and to prepare for Windows 8.

The following topics will be presented in this one-day journey where we assume you know nothing about XAML (Silverlight or WPF). Along the way you will become very comfortable with the techniques you will need to know to create business applications.

1. From Zero to XAML in 75 Minutes
2. Styles, Resources and Templates, Oh My!
3. Eliminate Code Using Data Binding
4. Create Business User Interfaces
5. 10 Cool Ways to Use the XAML ListBox Control

SQL SERVER WORKSHOPS SUNDAY, MARCH 25, 2012

9AM - 4PM



\$399 - SPR301: ADVANCED DIAGNOSTICS WITH SQL SERVER 2012 EXTENDED EVENTS JONATHAN KEHAYIAS

Extended Events introduced a refreshing new perspective to diagnostic troubleshooting in SQL Server 2008, and the future of Extended Events in SQL Server 2012 is brighter than ever. This workshop will cover the changes that were made in Extended Events in SQL Server 2012 and demonstrate how you can leverage Extended Events to perform complex diagnostics of SQL Server with minimal impact to the system.



\$399 - SPR202: THE FOUNDATIONS OF A HEALTHY SQL SERVER DATABASE

PAUL RANDAL
KIMBERLY L. TRIPP

SQL Server is becoming more and more ubiquitous as it underpins many mission-critical enterprise applications like SharePoint, TFS, Dynamics and others. Whether you're using SQL Server as a true data tier or because it just happens to be the data store for an enterprise application, the same common problems can negatively impact database performance. In this workshop we will distill our over 30 years of combined SQL Server experience into a knowledge-packed day where you will learn how to ensure your SQL Server doesn't become your bottleneck. You'll take away a wealth of immediately-applicable prac-

tices that you'll be able to understand and use if you're a DBA, a SharePoint administrator, or any IT professional tasked with SQL Server responsibilities. Topics covered will include: data and log file configuration, index fragmentation, tempdb, statistics, integrity checking and more!

SQL SERVER WORKSHOPS

SUNDAY, MARCH 25, 2012 8:30AM - 4PM



\$550 - SPR306: SQL SERVER 2012 UPDATE FOR DEVELOPERS (HANDS-ON, BRING YOUR OWN LAPTOP) (8:30AM - 4:00PM)

ROGER DOHERTY
JOE HOMNICK

This is a two-day (March 25 and March 26), hands-on, BRING YOUR OWN LAPTOP, workshop developed by Microsoft and delivered by Roger Doherty from Microsoft and Microsoft Regional Director, Joe Homnick. You must attend BOTH days of the workshop, and there are only 50 spaces available in the workshop. Both days of the workshop include lunch.

The SQL Server 2012 Update for Developers Training Course (SQL11UPD) will help you understand how to build enterprise-grade solutions which exploit key improvements in SQL Server 2012. The training course is designed for solution developers responsible for application source code development, Database developers responsible for database programming, and Architects and IT Professionals who are familiar with solution development and want to understand how developers will exploit new features and capabilities in SQL Server 2012. The training course is not designed for sales, marketing and management professionals.

Attendees must have real-world SQL Server solution development experience, they must have operational familiarity with SQL Server Management Studio, they're encouraged to have .NET development experience, and they're encouraged to be familiar with Visual Studio.

Day One outline:

- Introduction to SQL Server 2012
- Introducing High Availability and Disaster Recovery with SQL Server 2012 AlwaysOn
- SQL Server 2012 AlwaysOn Availability Group Connectivity
- Introducing SQL Server 2012 AlwaysOn Readable Secondaries
- Introducing SQL Server 2012 AlwaysOn Failover Clustering
- Introducing SQL Server 2012 Table Partitioning Improvements
- Introducing SQL Server 2012 Columnstore Indexes
- Introducing SQL Server 2012 Security and Auditing Improvements
- SQL Server 2012 Database Engine Extended Events SQL Server 2012 Distributed Replay
- Introducing SQL Server 2012 Transact-SQL Improvements
- Introducing SQL Server 2012 Spatial Improvements
- Introducing Storing and Querying Documents with SQL Server 2012
- Using SQL Server 2012 Express Local Database Runtime as an Embedded Database

Day Two outline:

- Introducing SQL Server Data Tools for Visual Studio 2010
- Introducing SQL Server 2012 Data-Tier Application Improvements
- What's New in .NET 4.0 and SQL Server 2012
- Introducing SQL Server 2012 StreamInsight
- Introducing SQL Server 2012 Integration Services Improvements
- Introducing SQL Server 2012 Master Data Services Improvements
- Introducing SQL Server 2012 Data Quality Services
- Introducing the SQL Server 2012 BI Semantic Model
- Introducing SQL Server 2012 PowerPivot Improvements
- What's New in SQL Server 2012 Reporting Services
- Introducing SQL Server 2012 Power View

The first class will begin 30 minutes earlier than other co-located workshops so that attendees can configure their laptops. Once configured, the labs will be available to run on the Microsoft-hosted environment at any time for a few weeks after the conference ends, thereby giving attendees a lot of time to work through the labs, even if they don't complete them during the workshop.

Hardware / software requirements: ATTENDEES ARE REQUIRED TO BRING THEIR OWN LAPTOPS with adequate memory and processing speed to run a decent size VM. Wireless Network Adapter + Windows Remote Desktop (%windir%\system32\mstsc.exe).

VISUAL STUDIO WORKSHOPS

MONDAY, MARCH 26, 2012 9AM - 4PM



\$399 - VPR303: A MODULAR APPROACH TO DEVELOPMENT PROCESS JUVAL LOWY

Architects always strive for modularity to achieve extensibility, maintainability and reuse. The technology for the modules, the glue, changes over time, from objects, to .NET to WCF. And yet, all of these introduce inherit complexity. When you design a highly modular system, it would be naive of you to expect that the only things you will do differently will be limited to design and technology. The development process itself needs to be modular, accommodating the complexity of the modules as a system. In this intense pre-conference workshop, Juval will share his original techniques, metrics and ideas, all practiced in real life, allowing for a module-oriented development process. This workshop presents a battle-hardened development process that you can immediately apply to achieve robust applications, manage requirements and ensure faster time to market. You will also see how the various team members - the architect, the project manager and developers - should work in concert, and their respective task and responsibilities towards the modules.



\$399 - VPR204: END-TO-END AZURE: A WORKSHOP FOR DEVELOPERS MICHELE LEROUX BUSTAMANTE

The Windows Azure Platform supplies an operating system in the cloud - hosted in Microsoft data centers - where businesses small and large can deploy a wide variety of consumer and enterprise applications. In addition to application hosting, Windows Azure Platform supplies data storage and other infrastructure and application services. In this workshop, developers will get a top to bottom

view of the platform with a practical look at each of the platform features. We'll explore Windows Azure, Windows Azure Storage (tables, blobs, queues), look at Windows Azure AppFabric features and also SQL Azure. You'll learn how easy it is for developers to build and deploy applications and services to the cloud with familiar development tools; you'll learn about storage options offered by Windows Azure Storage and how that compares to SQL Azure; and you'll learn how to employ features of AppFabric including the Service Bus, Caching and Access Control. This workshop is intended to give developers a jump on Windows Azure with practical guidance and tips for each feature. It will get you up to speed with the platform and then some, while also preparing you for sessions at the conference that dive a little deeper into equally important aspects of the platform with a continued focus on practical guidance.

\$399 - VPR202: THE BASICS OF APPLICATION ARCHITECTURE FOR MULTIPLE UIS



PAUL D. SHERIFF

The techniques for building applications have changed dramatically in the last few years. Gone are the days of single-tier, battle-ship gray, boring user interfaces. Users demand that your applications (or portions) run on more than one device. This one-day workshop will take you on a tour of how you should be architecting your application by breaking it up into services. You will learn how to create your business rules and data layer as a service. This workshop will assume you have some knowledge of .NET but have been developing applications the old way and you are now looking to see how to use WCF and the Model-View-ViewModel (MVVM) design pattern to create applications that can be run on more than one user interface platform. In this one-day workshop you will learn to build a set of services that can be reused in WPF, Silverlight, Windows Phone and ASP.NET. The focus of the day is creating easy-to-use, easy-to-maintain and simple services that can be used and reused in many applications. At the end of the day you will walk away with the skills you need to bring your old applications forward into a Service Oriented Architecture.

ASP.NET, SILVERLIGHT & HTML5 WORKSHOPS

MONDAY, MARCH 26, 2012 9AM - 4PM



\$399 - APR302: BUILDING AJAX-ENABLED APPLICATIONS WITH JQUERY DAN WAHLIN JOHN PAPA

Building cross-browser AJAX applications can be a fun yet challenging proposition. In this workshop, you'll learn how to put the joy back into AJAX development using the jQuery script library. Learn how jQuery selectors can reduce code and simplify the process of finding DOM elements, how chaining can be used to accomplish multiple tasks with a single line of code and how cross-browser AJAX calls can be made using built-in jQuery functionality. Other topics covered include using client-side templates as well as built-in plug-ins. If you've wanted to learn jQuery but haven't made the time, this is the workshop for you since we'll take you from the ground floor all the way to the top.

Pre-Con Workshops

THE COST OF A WORKSHOP IS IN ADDITION TO THE REGULAR CONFERENCE FEE



\$425 - APR301: ON THE METAL: ESSENTIAL HTML5, CSS3, AND JAVASCRIPT FOR .NET DEVELOPERS

(HANDS-ON, BRING YOUR OWN LAPTOP)
TODD ANGLIN

HTML5 and CSS3 have arrived and they are redefining rich, standards-based web development. Effects previously the exclusive domain of browser plug-ins can now be added to web applications as easily as images. Understanding the new power that these standards define, as well as the rapidly increasing power and speed of JavaScript in modern browsers and devices is essential. In this full-day workshop, you will be guided through the new features in HTML5 and CSS3, with special attention to how these technologies can be used today in new and old browsers. Among the topics that will be covered:

- HTML5 fundamentals & elements
- HTML5 forms & validation, geolocation, offline applications, localStorage
- HTML5 "Polyfills"
- CSS3 fundamentals & browser support
- CSS3 styles (shadows, rounded corners, gradients) & animations
- HTML5 for mobile devices
- HTML5 & CSS3 browser support, tips, and tricks.
- JavaScript best practices for modern browsers

Leave this workshop with the knowledge you need to start using HTML5, CSS3, and JavaScript to build modern standards-based applications for the web and devices. Laptops are encouraged, but not required.

SQL SERVER WORKSHOPS

MONDAY, MARCH 26, 2012

9AM - 4PM



\$399 - SPR304: AUTOMATE AND MANAGE SQL SERVER WITH POWERSHELL

ALLEN WHITE

This soup-to-nuts all day workshop will first introduce you to PowerShell, after which you'll learn the basic SMO object model, how to manipulate data with PowerShell and how to use SMO to manage objects. We'll then move on to creating Policy-Based Management policies, work with the Central Management Server, manage your system inventory and gather performance data with PowerShell. We'll wrap up with a look at the new PowerShell cmdlets introduced for SQL Server 2012 and how you can use PowerShell to manage SQL Server 2012 in server environments including the new Always On technology and Windows Server Core. After this one day, you'll be ready to go to work and able to use PowerShell to make you truly effective.



\$399 - SPR203: LEVERAGING SQL SERVER 2012 FEATURES AND TOOLS

JONATHAN KEHAYIAS
KIMBERLY L. TRIPP

SQL Server 2012 offers a myriad of new features that improve high availability, security, performance analysis, and scalability that can be immediately leveraged for an immediate return on investment associated with upgrading. In this workshop, Jonathan and Kimberly will go through a huge list of problems solved by these new features and tools - and will demo them along the way! Some of the new features that will be discussed: partitioning enhancements, ColumnStore indexes, contained databases, distributed replay, server-level roles, predictable failover with failover policies, availability groups, multi-database failover, read-only secondaries, and... much, much more (including a few teasers for other topics/sessions offered throughout the conference)! If you want an information-packed workshop with practical reasons to upgrade and powerful tips and tricks for using the new release - this workshop is for you!



\$399 - SPR305: ZERO TO BI WITH SQL SERVER 2012

PETER MYERS

Join Peter Myers as he presents the know-how required to deliver state-of-the-art integrated reporting, analytic and performance management solutions using SQL Server Business Intelligence (BI). This pre-conference workshop will introduce the BI services of SQL Server 2012: Integration Services, Master Data Services, Data Quality Services, Analysis Services and Reporting Services. It will include numerous demonstrations to emphasize how to effectively produce and deliver back-end BI solutions. Topics covered will include data warehouse design and business cases to support their design. This will be followed by common design approaches to cleanse and transform data to populate data warehouse structures using Integration Services. Analysis Services topics will include dimension and cube design, and data mining. Data mining will be used to create models that permit the exploration of data patterns and support predictive analytics. Finally, Reporting Services topics will include report authoring, management and delivery. Note: All theory and demonstrations will be based on the latest publicly available beta version of SQL Server, which is likely to be pre-release, yet still feature complete.

This workshop is targeted at IT professionals with an interest in data analysis and equally for non-IT professionals interested to understand and evaluate Microsoft's BI strategy and platforms. Apart from a general understanding of relational database technologies, there is no requirement to have any background or experience with the topic.

Post-Con Workshops

SHAREPOINT WORKSHOPS MONDAY, MARCH 26, 2012 9AM - 4PM



\$399 - CPR203: BUILDING SOLUTIONS FOR SHAREPOINT ONLINE RANDY WILLIAMS

We all know that SharePoint is a great platform to build custom solutions, but how does the story change with SharePoint Online in Office 365? Come join us for this full-day workshop to quickly come up to speed on all the capabilities and limitations of building the next-generation of SharePoint apps. The session will start with an overview of SharePoint Online as a software platform. We'll then quickly move into the options you have using Office and SharePoint Designer to build cloud-compatible, no-code mashups. For the afternoon, we'll focus exclusively on Visual Studio-developed solutions and cover what your options are with sandboxed solutions and the latest support with BCS (Business Connectivity Services). You'll also learn how browser-side technologies such as jQuery, AJAX, Silverlight and HTML 5 let you deliver browser-rich applications even when running from SharePoint Online. As we wrap up the day, we'll cover how to consume services from Windows and SQL Azure. Expect to see lots of practical demos and code that you can take away to get a head start on your next SharePoint Online solution. Difficulty: 200 level (morning), 300 level (morning)



\$399 - HPR201: INTRODUCTION TO SHAREPOINT DEVELOPMENT ROBERT BOGUE ERIC SHUPPS

You want to start building solutions on SharePoint that require some code but you don't know where to start? Come and learn how to leverage your existing .NET skills to begin creating scalable, secure, and high-performance SharePoint 2010 applications. Take a quick tour through the creation of Web parts, discover how to extend SharePoint to remote applications using the client object model, get an overview of user managed solutions using the sandbox and receive a wealth of tips and tricks from real-world scenarios. In addition, you will learn how Visual Studio 2010 makes SharePoint development faster, easier, and more efficient than ever before.



\$399 - HPR302: REAL-WORLD INFORMATION ARCHITECTURE, ECM AND GOVERNANCE: DISCOVER, PLAN, DESIGN, AND DEPLOY BEN CURRY

If you are tasked with implementing SharePoint Server 2010 and/or Office 365, then this session is for you! Come see how to create an Information Architecture strategy that includes Enterprise Content Management, Social & Collaboration, and Business Process Automation. First, we'll talk about discovering actionable requirements - technical, cultural, and functional. In the planning portion of the workshop, you'll see real-world examples of different architecture choices and how governance choices affect the implementation of SharePoint Server 2010 and Office 365. We'll then take our attendee-driven requirements and put them into an actual SharePoint design! Last, we'll implement our design and

test our strategy in workflows, content management, records management, document management, social, and collaboration. This is a full day chocked full of real-world examples and lots of live demonstrations of application design. Attendee key takeaways: Attendees will get a good introduction to building URL taxonomies, noun taxonomies, and associated process discovery methods in a simple and straight-forward approach. They'll leave with confidence and direction on how to improve the odds of success in their environment. Last, they'll get a REAL-WORLD approach to designing and governing Managed Metadata Services and other enterprise content management product features.

VISUAL STUDIOS WORKSHOPS FRIDAY, MARCH 30, 2012 9AM - 4PM



\$399 - VPS301: UI DESIGN PRINCIPLES AND TECHNIQUES: AN INTERACTIVE WORKSHOP FOR DEVELOPERS

BILLY HOLLIS

Modern user interface technology stacks, such as XAML and HTML5, give us great freedom to design compelling user experiences. The missing ingredient is often expertise in general design principles and prototyping techniques. This highly interactive workshop will get you started. Discussion of fundamental design principles, such as progressive disclosure, biophilia, Hick's Law, Fitt's Law, and many others, is supplemented with individual and group exercises for hands-on exposure. You'll be challenged to try new approaches for creating more productive interfaces and satisfying users. You'll see new alternatives for prototyping, and examples of user interfaces done right and done wrong. Come ready to actively participate and have your mind opened to dramatically new ways to help you create great experiences for your users.

ASP.NET, SILVERLIGHT & HTML5 WORKSHOPS FRIDAY, MARCH 30, 2012 9AM - 4PM



\$399 - APS301: A LAP AROUND ASP.NET MVC 4

PAUL LITWIN

STEPHEN WALTHER

In this full-day workshop, you will learn to create enterprise quality ASP.NET MVC websites using ASP.NET MVC 4 (currently released as a Developer Preview). The workshop will begin with the basics of ASP.NET MVC and the Model, View, Controller design pattern and quickly pick up steam covering more advanced ASP.NET MVC topics with special emphasis on new features of the 4.0 release. Topics covered will include: Entity Framework 4.2 (both code first and database first approaches), use of repository classes, NuGet, scaffolding, validation, dependency injection, jQuery, JSON, HTML5, areas, viewmodels, unit tests, authentication/authorization, asynch controllers, mobile-friendly project templates, and related topics. This workshop is perfect for attendees with little or no ASP.NET MVC experience as well as those with experience building ASP.NET MVC 3 websites.

**NOTE: LUNCH IS INCLUDED WITH FULL DAY WORKSHOPS.
THE COST OF A WORKSHOP IS IN ADDITION TO THE
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Post-Con Workshops

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SQL SERVER WORKSHOPS

FRIDAY, MARCH 30, 2012

9AM - 4PM



\$399 - SPS202: OPTIMIZING PROCEDURAL CODE: UNDERSTANDING PLAN CACHE, PROCEDURAL CODE AND RECOMPILATION

KIMBERLY L. TRIPP

When you execute a statement you get one plan, you execute it at another time (possibly with different values, maybe not?) and you get another plan? Or, you move that statement into a stored procedure and it behaves differently? Then, you take out the statement and put it into a batch with a variable and it behaves differently again. What's affecting the plan? Can you control it? What are the symptoms, causes and resolution? And, can your stored procedure coding practices be adding to the problem? Can you do anything differently? In this session, Kimberly will cover statement execution, plan cache analysis, optimizing procedural code and how to solve all of your plan caching problems. If you execute statements against SQL Server (from adhoc to procedural) then this workshop is an absolute must! Kimberly will help solve a lot of your frustrations in working with plan cache, demystify and explain SQL Server's seemingly erratic (but NOT!) behavior and improve your performance!



\$399 - SPS201: VIRTUALIZATION AND STORAGE BASICS FOR DBAS

BRENT OZAR

These two technologies can make a very big - and very bad - difference in how your SQL Server performs. Wouldn't it be great if you could get the real, honest lowdown from a virtualization administrator, a SAN administrator, and a DBA? Wouldn't it be even better if one person had done all three, and could give you the pros and cons of each point of view? That person is Brent Ozar, a Microsoft Certified Master who's been there and done that. If you've seen (and liked) Brent's one-hour session on this topic, you'll like this post-conference workshop. He goes into more depth and detail, showing real-world examples to prove points about memory, storage, and CPU. You'll leave ready to challenge your SAN and VMware admins.

SHAREPOINT WORKSHOPS

FRIDAY, MARCH 30, 2012

9AM - 4PM



\$399 - HPS301: PROFESSIONAL SHAREPOINT DEVELOPMENT

ROBERT BOGUE

ERIC SHUPPS

Microsoft SharePoint 2010 provides a range of new features and functionality for building custom applications. In this intensive workshop, you'll learn how to build dynamic, scalable and secure solutions using proven real-world techniques. Covering the complete application lifecycle, from designing data architecture to packaging and deployment, topics include user experience design, artifact selection, information architecture, branding and customization, security, page and data access performance and application testing. This workshop delivers a deep-dive into enterprise SharePoint development and is ideal for mid-to-senior level developers, development team leads, and experienced Microsoft .NET developers interested in learning more about SharePoint programming.



\$399 - HPS302: SHAREPOINT DISASTER AVOIDANCE FOR LARGE SCALE ENTERPRISES

JASON HIMMELSTEIN

CORNELIUS J. VAN DYK

SharePoint best practices dictate that a proper disaster recovery plan should be in place before the launch of your SharePoint farm. Standard methodologies related to disaster planning in SharePoint deal with the traditional type of scenarios where your datacenter is a smoldering hole in the ground. Processes such as SQL Server database backups or STSADM backups for site collections are often employed to cater to such scenarios. When something seemingly benign like a Secure Store Service Application corruption strikes, architects and administrators often come to the sad conclusion that a complete farm rebuild is their only recourse. Additionally the risks associated with the application of regular bi-monthly SharePoint Cumulative Updates and periodic service packs, all of which have no uninstall or undo features, also serve to increase the probability of experiencing an complete emergency farm rebuild at some point in an architect/administrator's career. Long after a rebuild is completed and business has been restored to "almost" normal status, you'll still be troubleshooting server configurations and tweaking the environment to get back to your pre-disaster level. This workshop takes you through a dramatically new way of architecting your disaster plan. By applying the principles of this new methodology, you'll dramatically cut down your disaster response time to the point of almost avoiding them entirely.

**NOTE: LUNCH IS INCLUDED WITH FULL DAY WORKSHOPS.
THE COST OF A WORKSHOP IS IN ADDITION TO THE
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KEYNOTES

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