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SHAREPOINT**

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SharePoint Performance & Capacity Planning Essentials

Speaker:

*Eric Shupps, President, BinaryWave,
The SharePoint Cowboy*

Attendee Audio: Dial 1 773 945 1010

Access Code: Enter 314-928-165

Webcast Agenda:

(Central Standard Time)

12:00 – 12:05pm..... Introductions

12:05 – 12:30pm..... Eric Shupps – Part A

12:30 – 12:45pm Idera Demonstration

12:45 – 1:00pm..... Eric Shupps - Part B

1:00 – 1:10pm..... Q & A

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SecretsOfSharePoint.com is a community for SharePoint administrators, developers and users where you can:

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Visit <http://www.SecretsofSharePoint.com>

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SharePoint 2007 Offerings Include:

- Enterprise Content Management Systems based on Microsoft Office SharePoint Server 2007 (MOSS)
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- Migration initiatives for SharePoint 2003 to 2007
- KPI, Dashboard, and Reporting Solutions
- Tailored SharePoint Training (either onsite or remote)
- SharePoint Roadmap development: 6, 12, 18, and 24 months
- Enterprise Metadata Design \ Retention Schedule Development

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 - Navigation (10)
 - Search (8)
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- Security & Management (24)
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Explore Directory of Web Parts, Platforms & Applications

How to Prevent Outlook Overload with SharePoint
Written by Andy Dale
First day back after the Christmas Holidays and many are met with a rather large Inbox, a disease that hits people all over the world at this time of year (as well as the festive-flu and watching 'Santa Claus the Movie' for the tenth time) even with all the

CADnection Integrates AutoCAD with SharePoint
Written by Richard W. Bourke
REVIEW ★★★★★ (Rating: 5 out of 5)
Ensuring effective product development is a constant challenge whose integration processes, and so inadequate. The dr increased time and development and quality. However, if user working for a Microsoft's ShareP help is here ...

Website Migration Manager for SharePoint by Metalogix
Supports MOSS 2007 • WSS v3
Works with Custom Environment • MCMs 2002 • Interwoven • Stellent • Vignette • RedDot • Percussion
Migrate existing intranet or extranet sites to the SharePoint 2007 Web Content Management platform. Migrate from MCMs 2002, Interwoven, Stellent, Vignette, RedDot, Percussion, and Tridion Home-grown websites.
Read more • Read reviews • Write review

SharePoint Site Migration Manager by Metalogix
Supports MOSS 2007 • WSS v3 • WSS v2 • SPS 2003
SharePoint Site Migration Manager migrate sites, lists and libraries between SharePoint servers while retaining views, versions, user-info, web parts, permissions and metadata. Migrate from SPS 2003, WSS v2, MOSS 2007, WSS v3.
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Tsunami Deployer: Migration from SharePoint 2003
Supports MOSS 2007 • WSS v3 • SPS 2003 • WSS v2
Tsunami Deployer for Microsoft SharePoint 2003 and Windows SharePoint Services 2.0 is a stand-alone application enabling rapid content migration. Tsunami Deployer for Microsoft SharePoint 2003 is part of the Tsunami Deployer Family of Products, which has been...



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SharePoint Capacity Planning

Eric Shupps

Microsoft MVP [SharePoint]

President

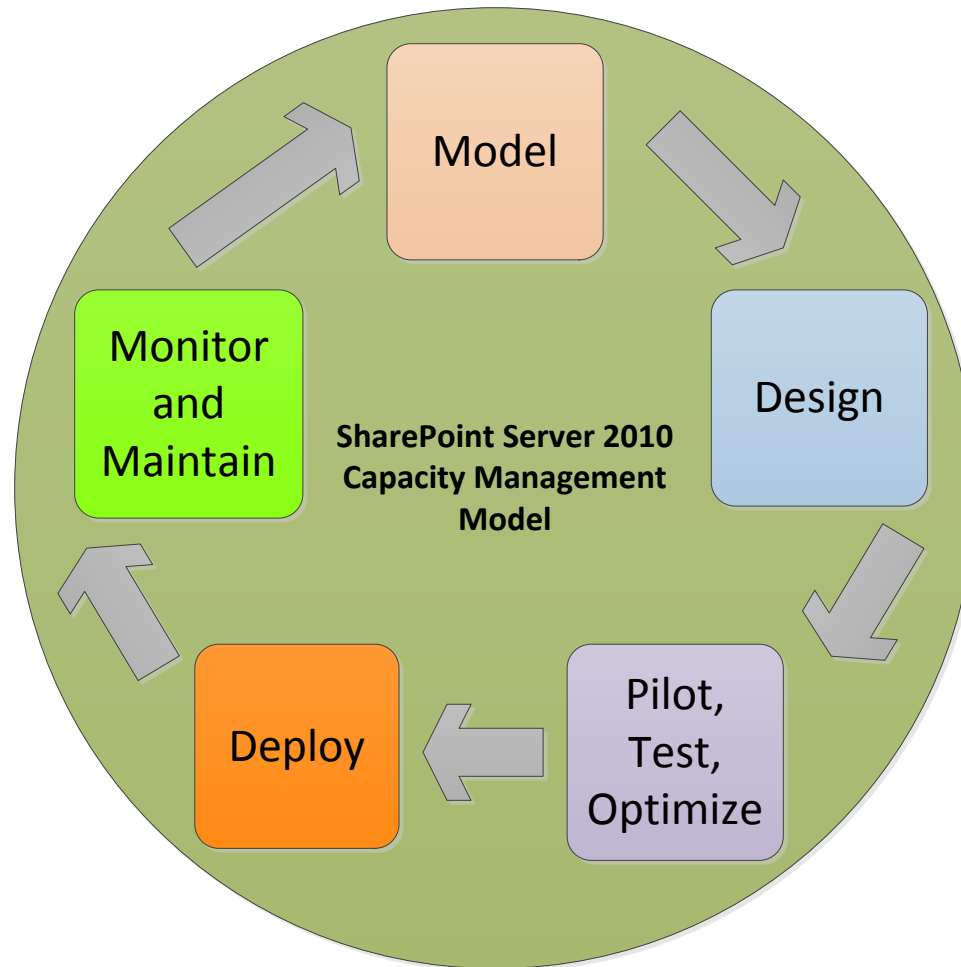
BinaryWave

Who Am I?

- Founder and President, BinaryWave
- Microsoft MVP (SharePoint Server)
- SharePoint Development Patterns & Practices Advisory Board Member
- Twitter: [@eshupps](#)
- Facebook: [sharepointcowboy](#)
- Blog: www.sharepointcowboy.com



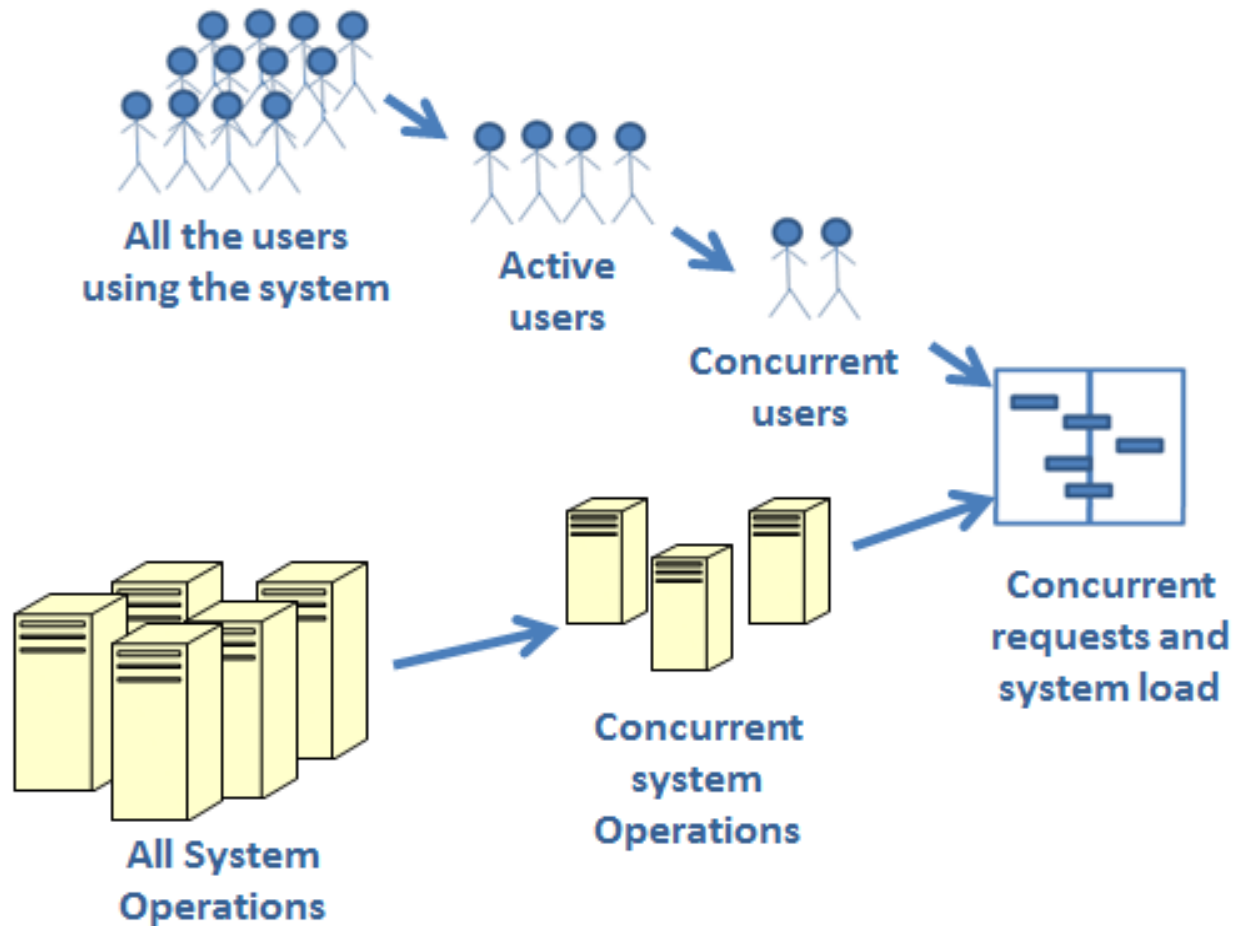
Capacity Management



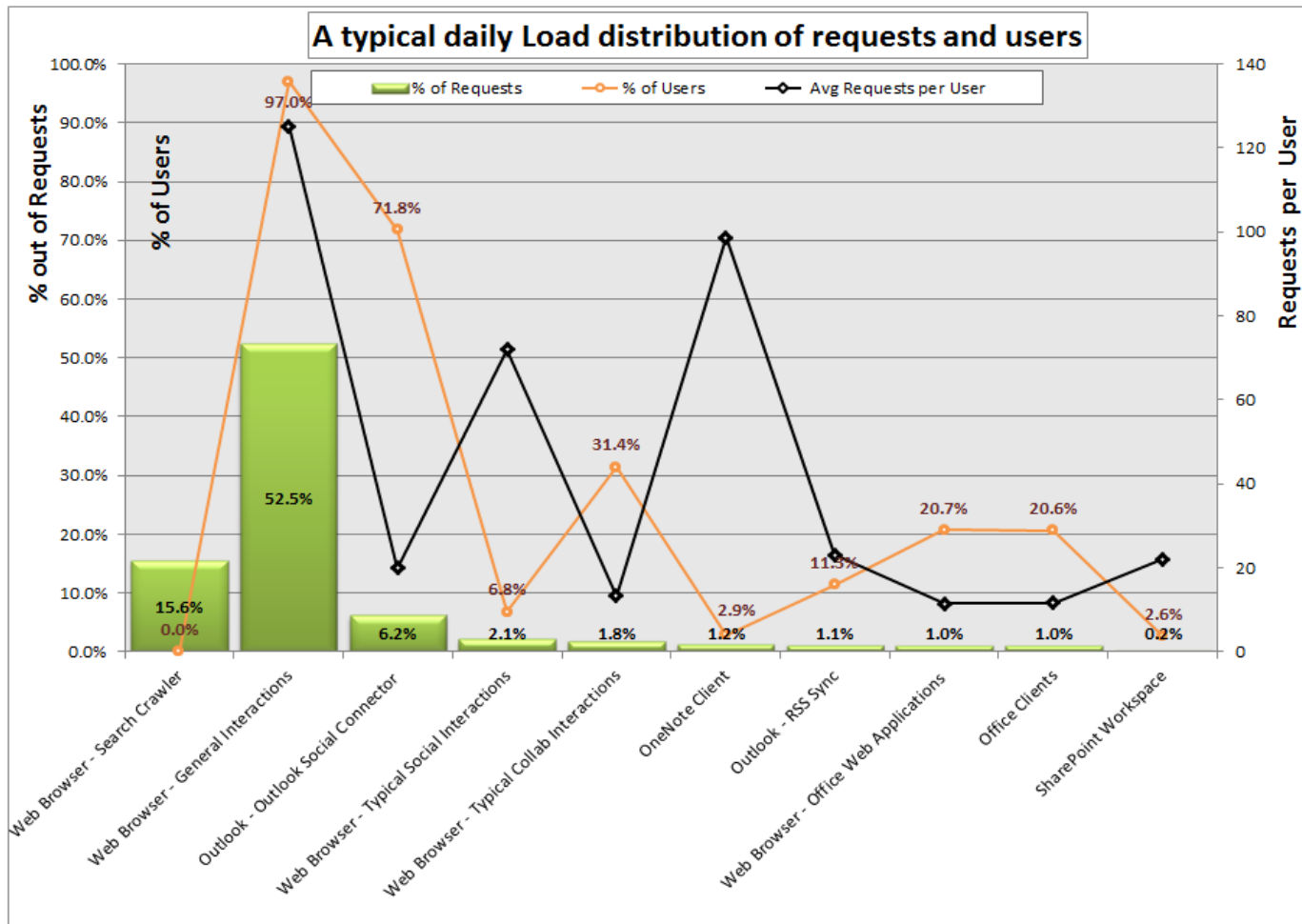
Services and Features

Service Application	Web server		App Server		SQL Server		
	CPU	RAM	CPU	RAM	CPU	I/Ops	Storage
SharePoint Foundation Service	●●●●	●●●●			●●●○	●●●●	●●●●
Central Admin service			●●●○	●●●○	●○○○	●○○○	●○○○
Logging Service *	●●●○	●●●○			●●●○	●●●●	●●●●
SharePoint Search Service	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
Word Viewing Service Application *	●○○○	●○○○	●●●●	●●●○			
PowerPoint Service *	●●●○	●●●○	●●●●	●●●○			
Excel Calculation Service	●●●○	●○○○	●●●○	●●●●			
Visio Service *	●○○○	●○○○	●●●●	●●●●	●○○○	●○○○	●○○○
Access Service *	●○○○	●○○○	●●●●	●●●○	●○○○	●○○○	●○○○
User Profile Service	●○○○	●●●●	●○○○	●●●○	●●●●	●●●●	●●●○
Managed Metadata Service *	●○○○	●●●○	●●●○	●●●○	●○○○	●○○○	●●●○
Web Analytics Service *	●○○○	●○○○			●●●●	●●●●	●●●●
Business Connection Service *	●●●○	●●●○	●●●●	●●●●			
InfoPath Forms Service	●●●○	●●●○	●●●○	●●●○	●○○○	●○○○	●○○○
Word Conversion Service	●○○○	●○○○	●●●●	●●●○	●○○○	●○○○	●○○○
PerformancePoint Service Application *	●●●○	●●●○	●●●●	●●●●	●○○○	●○○○	●○○○
Project Service *	●○○○	●○○○	●○○○	●○○○	●●●●	●●●●	●●●○
Sandboxed Solutions *	●○○○	●○○○	●●●●	●●●●			
Workflow capabilities *	●●●○	●●●○					
Timer Service	●●●○	●●●○	●●●○	●●●○			
PowerPivot *	●○○○	●○○○	●●●●	●●●●	●●●○	●●●○	●●●○

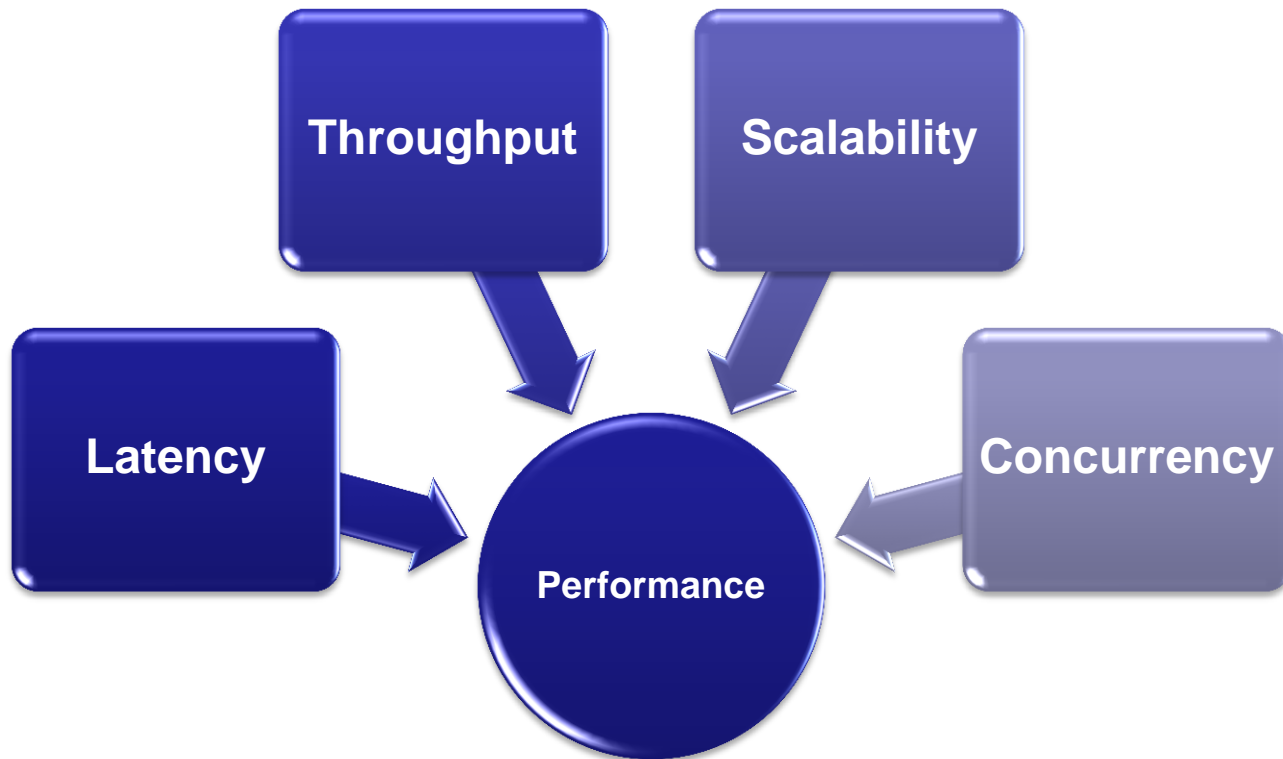
Workload Planning



Workload Distribution



Fundamentals



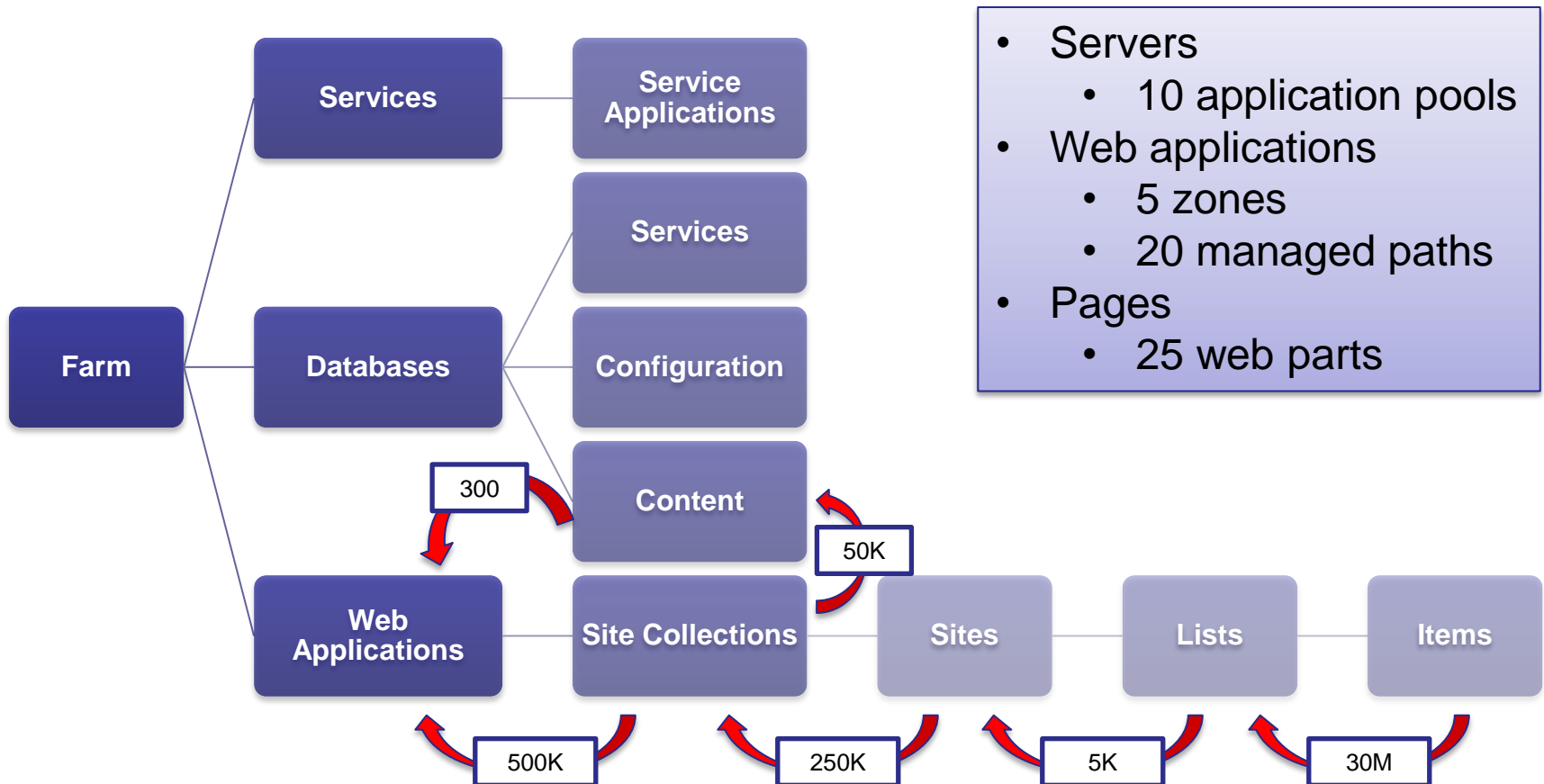
Database

- Pre-stage databases for large implementations
- 100GB recommended content DB limit
- Separate Content, Search and Temp
- Reconfigure autogrowth settings
- Separate large site collections into separate Content DB's

Remote BLOB Storage

- SQL Server 2008 strategy for storing blobs outside of the database
 - Offloads large objects onto cheaper file storage
- SharePoint requires the SQL Server 2008 R2 RBS client but can run against SQL Server 2008
- Requires custom RBS provider (available from 3rd parties)

Platform Boundaries



- Servers
 - 10 application pools
- Web applications
 - 5 zones
 - 20 managed paths
- Pages
 - 25 web parts

Content Databases

- Content database size
 - 200 GB (supported limit)
 - <100 GB (practical limit)
- Consider amount of time it takes to backup/restore
- Table locks occur when more than 5,000 items are returned in a query for a table
 - Table will be locked until the query is complete
 - The larger the database the more frequently you'll get table locks
 - Negative impact to performance

Storage Quotas

- Maximum amount of storage
- Assigned at a site collection level (and no lower)
- Essential to managing growth of the environment

Page Customization

Uncustomized Page

Customized Page

Content stored on disk, static elements cached, assemblies loaded



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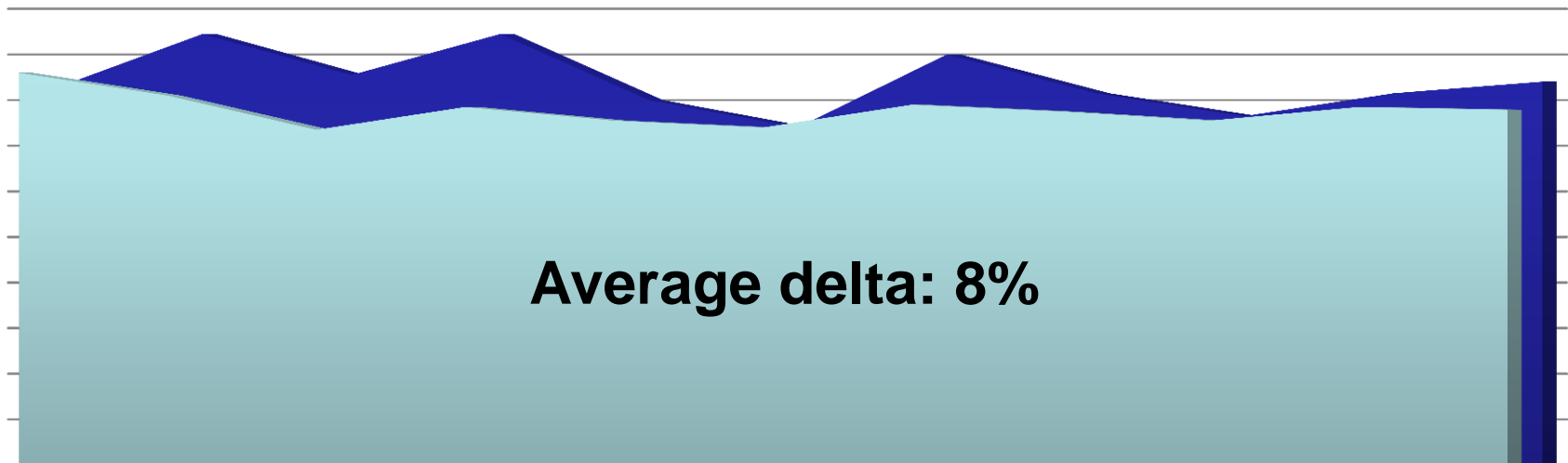
Content retrieved from database on each request

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Customization Impact

Test Parameters

- Stock SP 2007 Page
- Identical content
- Page edited in SPD and saved to content DB
- 10 successive cycles
- 50 user load
- IE user agent
- No validation rules

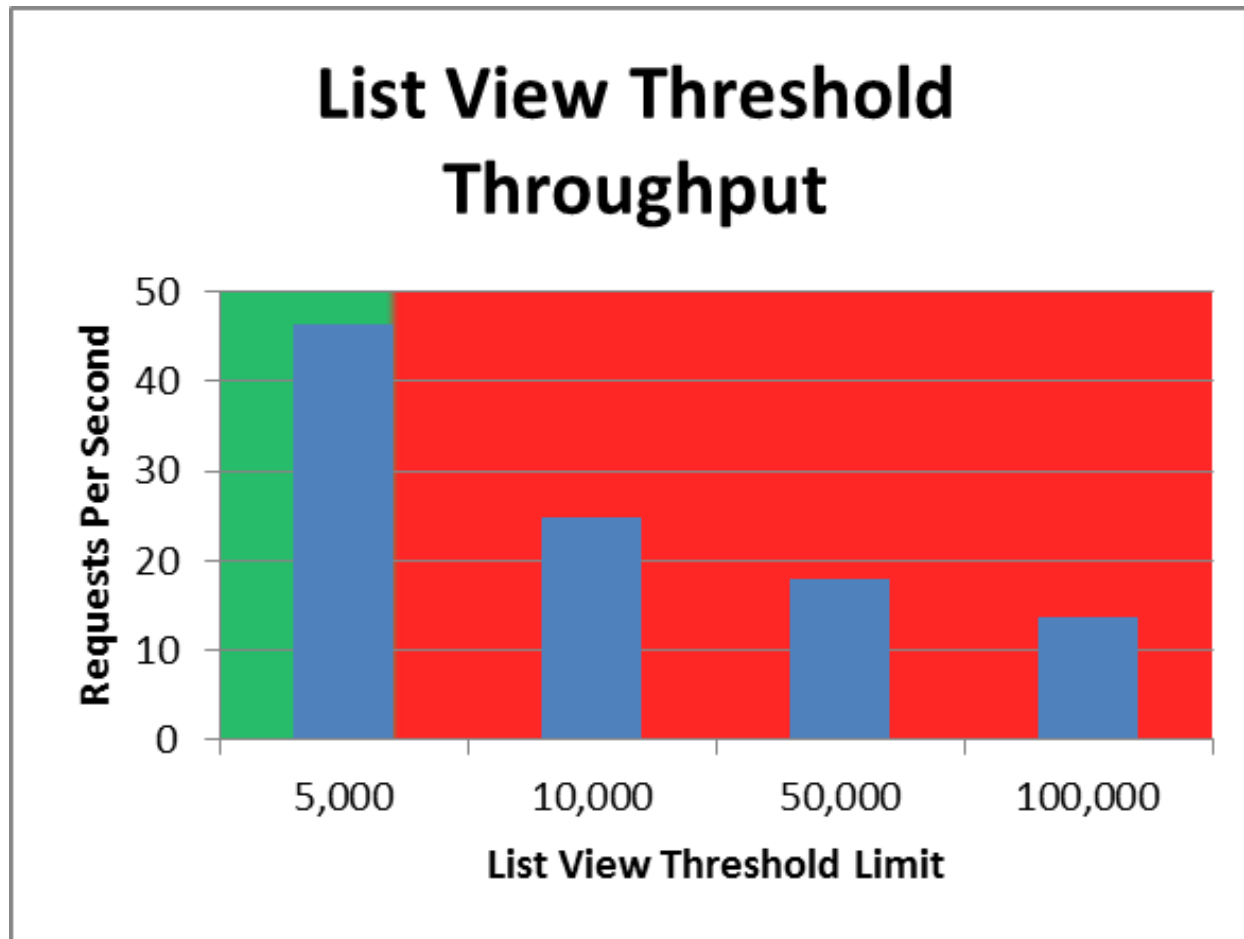


■ Uncustomized ■ Customized

Query Throttling

- Prevents the return of too many records from a single query
- Designed to improve overall performance by limiting the impact of any single request
- Different defaults for users and administrators
- “Happy hour” for long running queries and batch reporting

List Performance



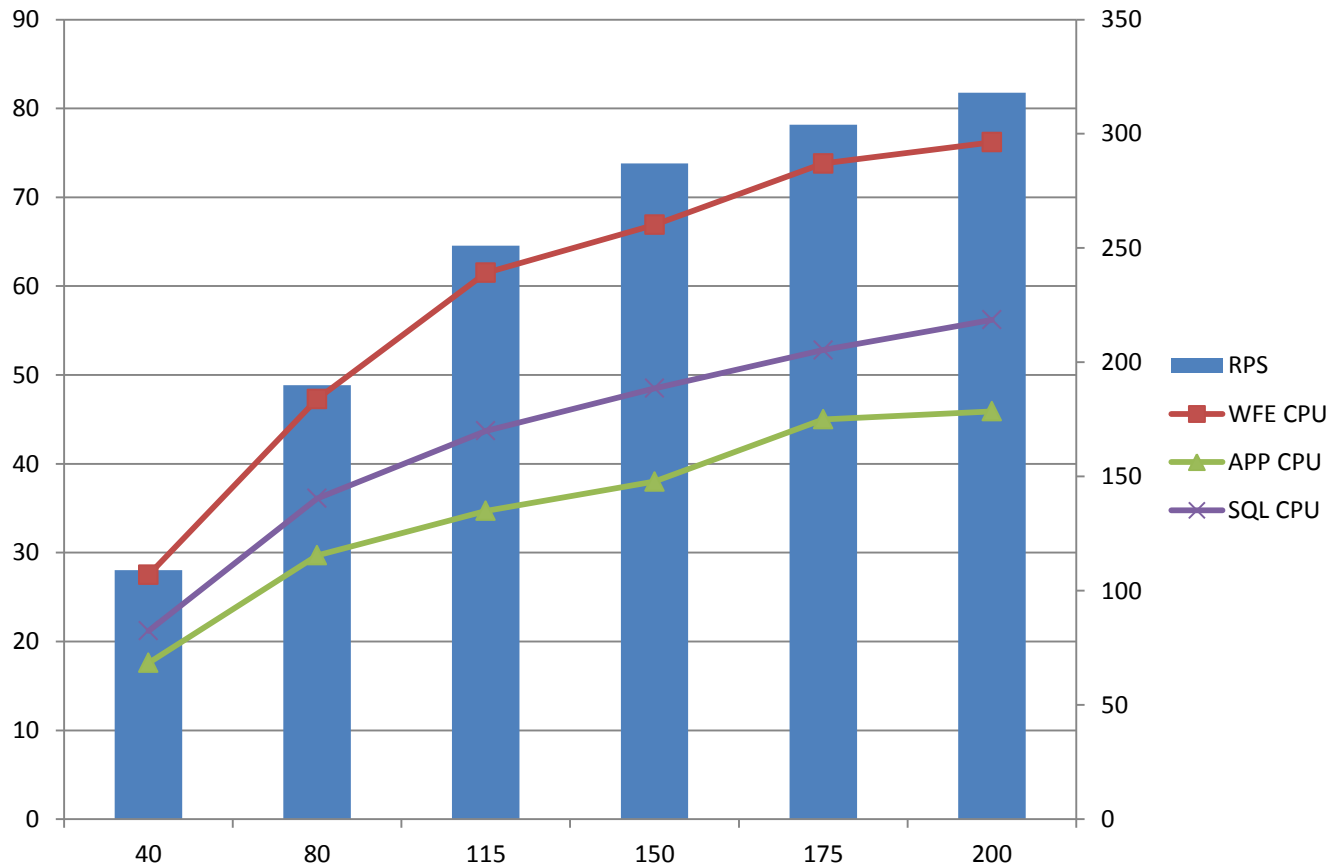
IIS Compression

- MOSS/WSS requires dynamic compression mechanisms
- Enable manually on both IIS 6 & 7 (static enabled by default in IIS 7)
- Set dynamic compression level to “9” for max compression vs. cpu benefits
- Increases CPU utilization on WFE’s (no disk storage for dynamic files)

MOSS Caching

- Page, Object and Disk (BLOB*)
- Reduces database queries, increases local memory dependency
- Be aware of issues in farm configurations
- Configure profiles based on usage patterns

Measuring Performance





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Q&A

How to ask a question:

There is a “questions” window pane at the right of your screen. You may enter a question and they will be answered following the Webcast.



Tune in for our next webcast:

Selecting and Protecting the Right SharePoint Backup Targets
Presented by: Sean McDonough
January 19th, 2011

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