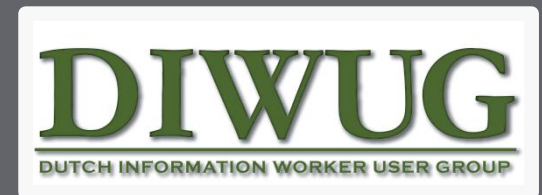


Overview of What's New in SharePoint 2010 for IT Professionals

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About Mirjam



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- **Email:** mirjam@macaw.nl

- **Twitter:** [@mirjamvanolst](https://twitter.com/mirjamvanolst)

SharePoint 2010 for IT Pros

Getting Started

- System requirements
- Fluent and easy installation

SharePoint Infrastructure

- Security
- Service Applications

Managing SharePoint

- PowerShell
- Logging, Monitoring and Throttling
- Disaster Recovery and High Availability

Fancy new features highlighted

- Enterprise Content Management

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System Requirements

- OS requirements for SharePoint 2010
 - Windows Server 2008 SP2 or later
 - Windows Server 2008 R2
 - Must be 64 bit
- SQL requirements
 - SQL Server 2005 SP2 or later
 - SQL Server 2008 SP1 CU2 or later
 - SQL Server 2008 R2 or later
 - Must be 64 bit

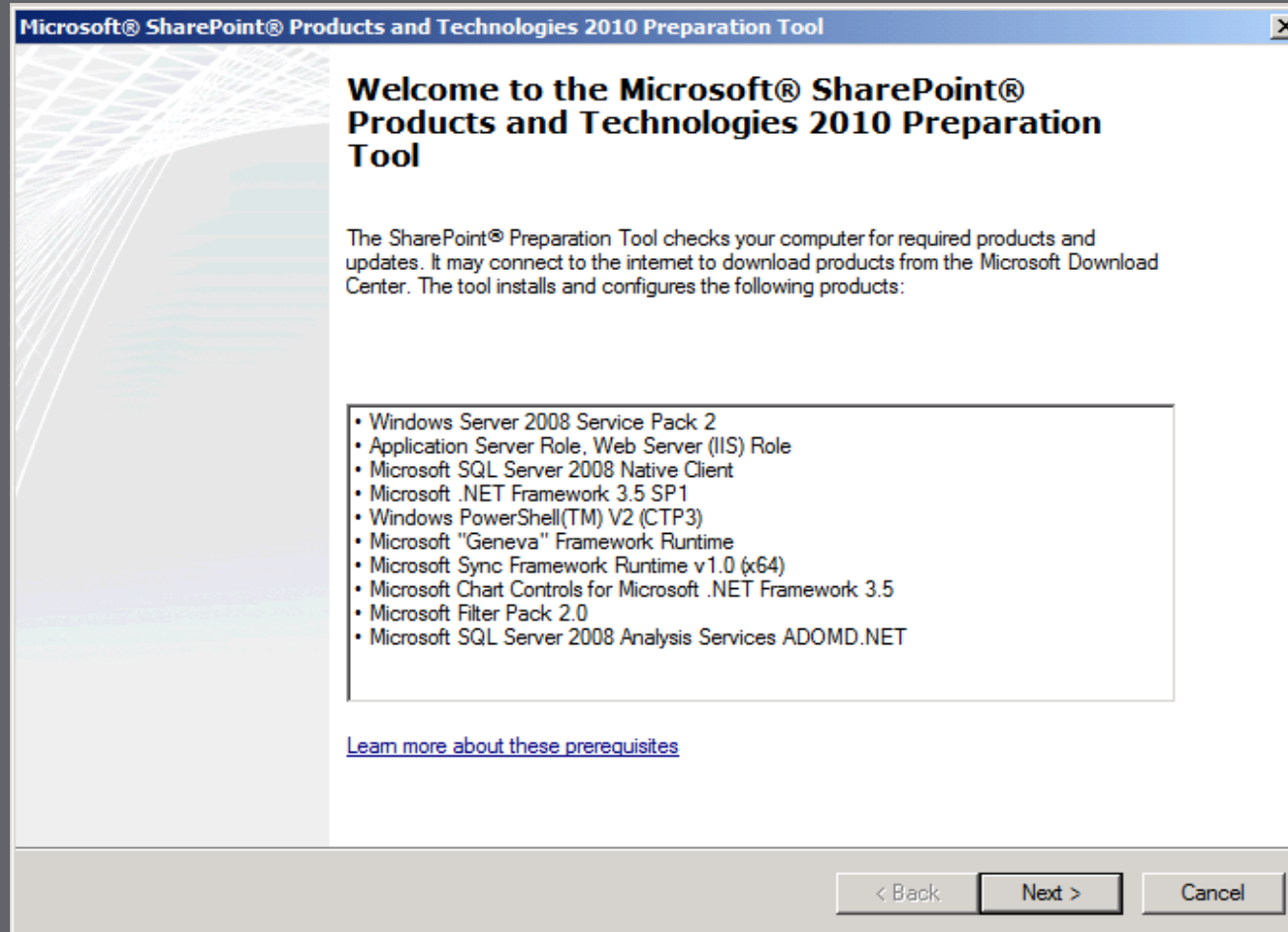
Splash Screen



Software Prerequisites

- SQL Server Native Client
- Geneva Framework
- Sync Framework
- Chart Controls Framework
- Filter Pack
- Analysis .NET Framework data provider
- Web Server Role
- Application Server Role

Prerequisites Installer



Installation Tips and Tricks

- Don't use the Configuration Wizard to configure Service Applications and create a Web Application
- Make all Service Accounts Managed Accounts as soon as Central Administration is set up
- Only provision the services you need
 - Remember, all services running on your server consume resources!

SharePoint 2010 for IT Pros

Getting
Started

- **Tuesday 16:30 - 17:45**
 - MSM04: Successfully Implementing SharePoint – Ingeborg Struijk
- **Wednesday 09:30 - 10:45**
 - MIT09: Architecting and Managing Virtualized SharePoint 2010 Farms – Michael Noel
- **Wednesday 11:15 - 12:30**
 - MIT03: Lessons Learned and Best Practices from Enterprise Deployments of SharePoint – Spencer Harbar

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Security

- **Managed Accounts**
 - Centrally managed services accounts
 - Automatic password management
- **Server addition to farm secured by Passphrase**
 - No re-entering of farm account credentials
- **APIs for permission reporting**
- **Impossible to retrieve passwords through the object model**

Managed Accounts

Register Managed Account - Windows Internet Explorer

http://demo2010a:5555/_admin/registeraccount.aspx?Source=http%3A%2F%2Fdemo2010a%3A5555%2F%5Fadmin%2F

Register Managed Account

Give Feedback System Account

Microsoft SharePoint 2010 Central Administration > Register Managed Account

Use this page to register new managed accounts.

Warning: this page is not encrypted for secure communication. User names, passwords, and any other information will be sent in clear text. For more information, contact your administrator.

Account Registration

Service accounts are used by various farm components to operate. The account password can be set to automatically change on a schedule and before any scheduled Active Directory enforced password change event.

Enter the service account credentials.

Automatic Password Change

Automatic password change enables SharePoint to automatically generate new strong passwords on a schedule you set. Select the Enable automatic password change checkbox to allow SharePoint to manage the password for the selected account.

If an account policy based expiry date is detected for the account, and the expiry will occur before the scheduled date and time, the password will be changed on a configured number of days before the expiry date at the regularly scheduled time.

Choose to enable e-mail notifications in order to have the system generate warning notifications about upcoming password change events.

Specify a time and schedule for the system to automatically change the password.

Service account credentials

User name

Password

Enable automatic password change
If password expiry policy is detected, change password
 days before expiry policy is enforced

Start notifying by e-mail
 days before password change

Weekly
 Monthly

OK Cancel

Done Local intranet | Protected Mode: Off 100%

SharePoint 2007 Shared Services

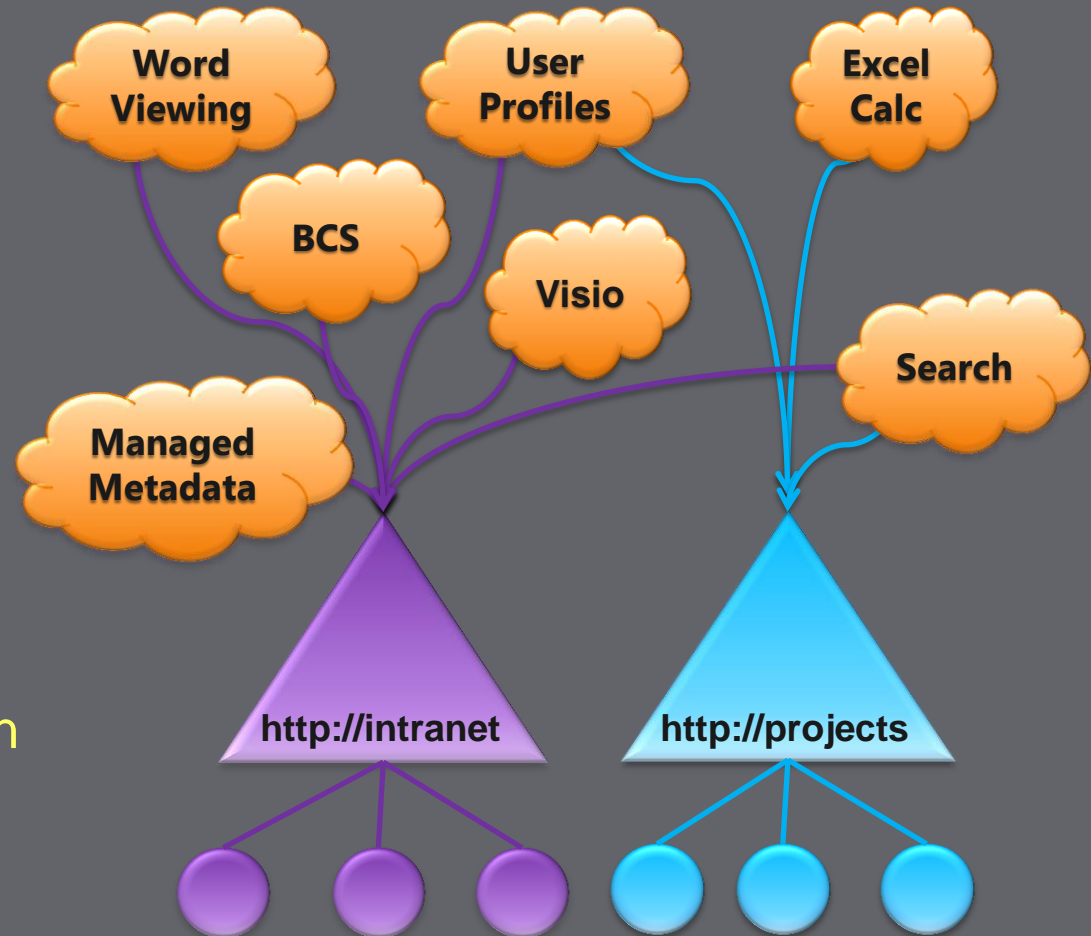
- All or nothing (Search / Profiles / Excel / BDC)
- No real granular delegation of control
- Resource heavy
- Separate SSP Administration web site
- Custom Shared Services not possible
- Web apps were tied to specific SSP
- Scalability limitations

Service Application model

- **Flexible Deployment Model**
 - Service Applications can easily be scaled out
 - Service Applications can be grouped together
- **Improved Security Model**
 - Claims Based Authentication/Authorization
 - Cross-Farm Communications via Web Services
- **Simplified Administration Model**
 - Central Administration and PowerShell
- **Web apps can consume services on an individual basis**
- **Multi-Tenancy**
 - Some Service Applications can be partitioned

Flexible Deployment

- Access Services
- Business Connectivity Services
- Excel Services
- Managed Metadata
- PowerPoint
- Search
- Secure Store Service
- State Service
- Usage and Health data collection
- User Profile
- Visio Graphics Service
- Web Analytics
- Word Conversion
- Word Viewing



Deploying Service Applications

- **Farm Configuration Wizard**
 - Creates all Service Applications with default settings
 - Do not use it!
- **Manually**
 - Use the „New“ dropdown in the Manage Service Application page
 - Specify custom application pool, database locations etc...
 - Creates service apps and their proxies
- **For maximum control, use PowerShell**
 - New-SP*ServiceApplication
 - New-SP*ServiceApplicationProxy

SharePoint 2010 for IT Pros

SharePoint
Infrastructure

- **Tuesday 13:30 - 14:45**
 - MIT02: Designing Governance: How Information Management and Security Must Drive Your Design – Dan Holme
- **Wednesday 09:30 - 10:45**
 - MIT04: Best Practices for Least-Privilege Installation, Administration, and Security of SharePoint 2010 – Dan Holme
- **Wednesday 15:00 - 16:15**
 - MIT12: Managing Multiple Authentication Providers in SharePoint 2010 for Extranets – Michael Noel
- **Wednesday 16:30 - 17:45**
 - MIT05: Service Applications and Farm Topologies – Spencer Harbar

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- High Availability and Disaster Recovery

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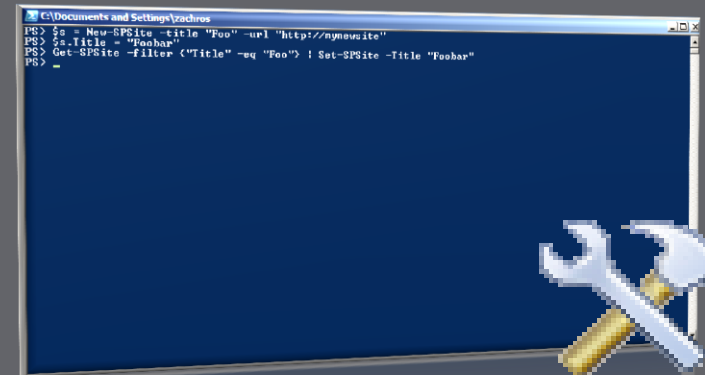
Windows PowerShell

- An interactive command-line and task-based scripting technology
- A single toolset for management of many different systems (SharePoint, AD, Exchange, Windows)
- Allows IT professionals to accelerate automation of tasks
- Extensible framework that can be embedded inside other applications

SharePoint Command-line

The History

- **SharePoint 2003**
 - Limited STSADM command-line interface
- **SharePoint 2007**
 - STSADM: 182 commands (MOSS)
- **SharePoint 2010**
 - 650+ PowerShell cmdlets
 - Superset of administration UI
 - Extensible platform
 - In-line discoverability
 - Optimized for batch operations

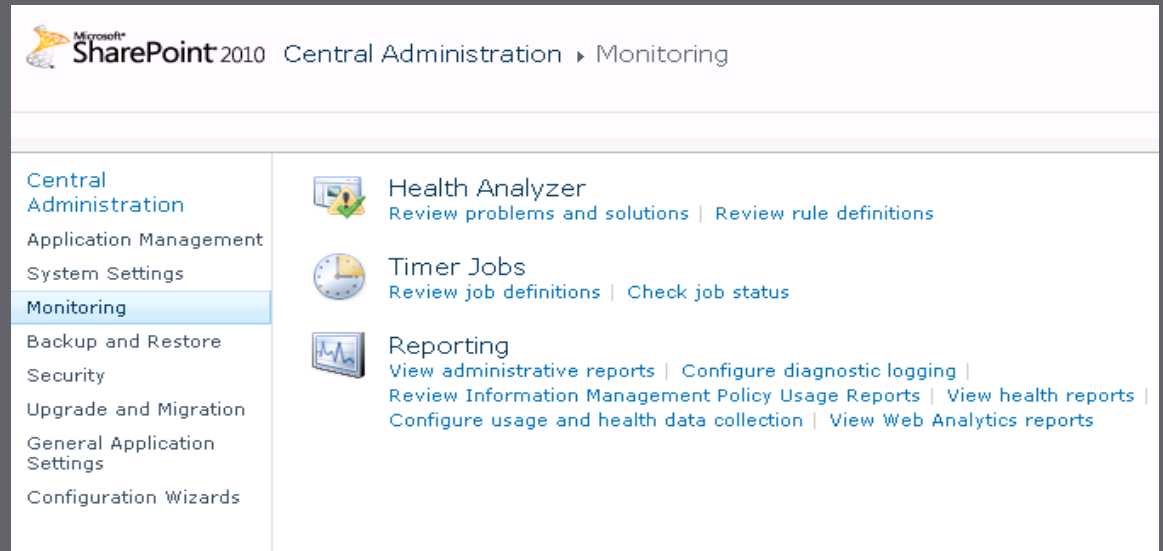


```
C:\Documents and Settings\rochros
PS> $s = New-SPSite -title "Foo" -url "http://mynewsite"
PS> $s.Title = "Foobar"
PS> Get-SPSite -filter {"Title" -eq "Foo"} | Set-SPSite -Title "Foobar"
PS> -
```



Logging features

- Diagnostic Logging
- Usage and Health data collection
- Logging database
- SharePoint Health Analyzer
- Web Analytics
- Reporting

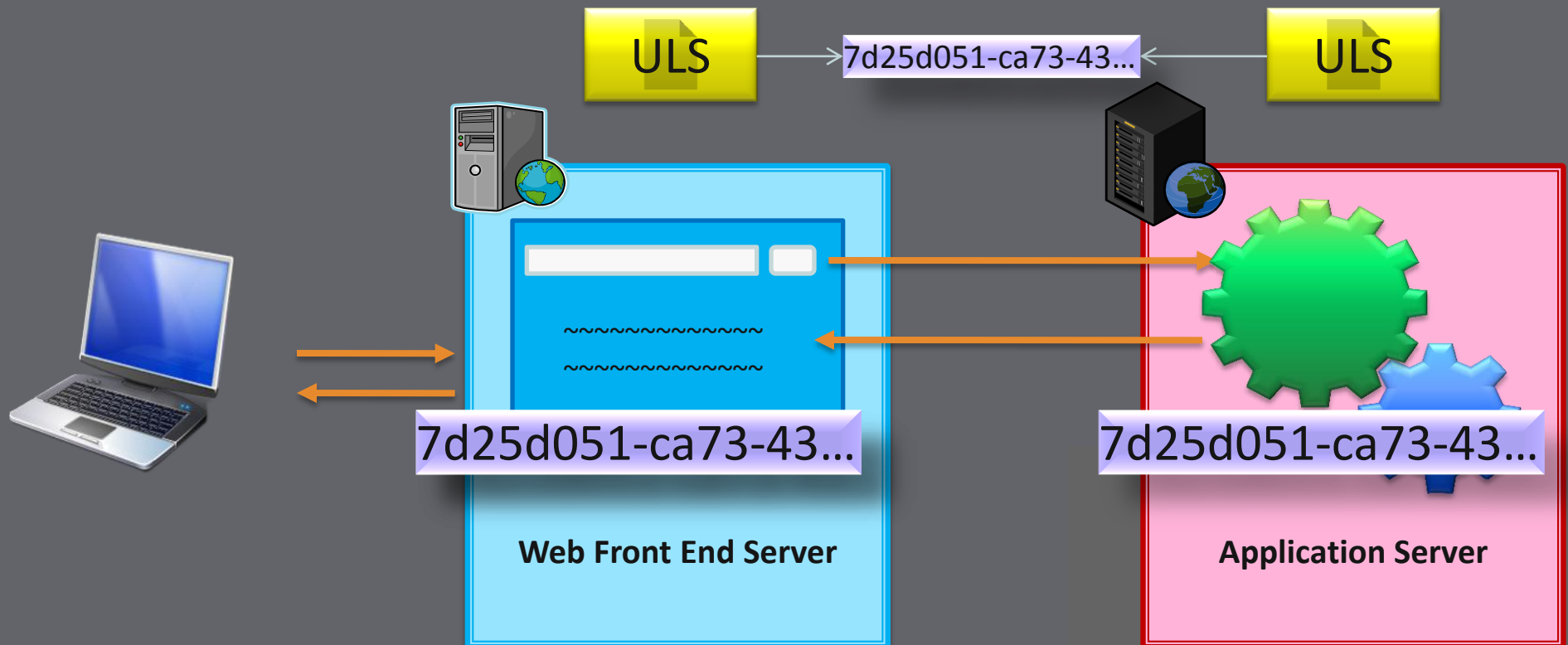


The screenshot shows the Microsoft SharePoint 2010 Central Administration interface, specifically the Monitoring section. The breadcrumb path is "Microsoft SharePoint 2010 Central Administration > Monitoring". A left-hand navigation pane lists various administrative tasks, with "Monitoring" selected and highlighted in blue. The main content area displays three monitoring-related features:

- Health Analyzer**: Includes links for "Review problems and solutions" and "Review rule definitions".
- Timer Jobs**: Includes links for "Review job definitions" and "Check job status".
- Reporting**: Includes links for "View administrative reports", "Configure diagnostic logging", "Review Information Management Policy Usage Reports", "View health reports", and "Configure usage and health data collection" | "View Web Analytics reports".

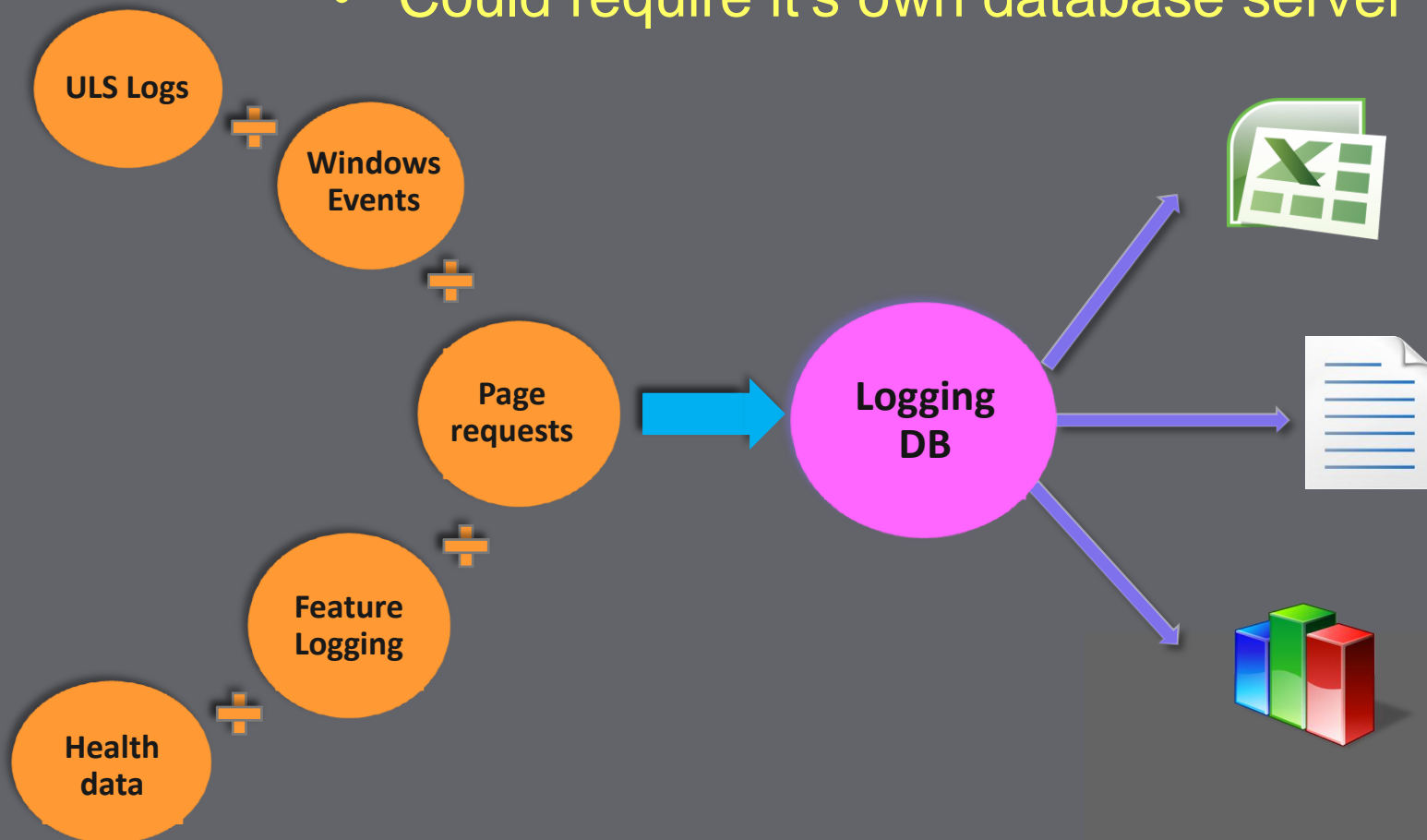
Correlation ID

- You are now able to follow the conversation across layers and servers



Logging database

- Stores 14-31 days worth of data by default
- Can be really busy and can get really big (TBs)
- Could require it's own database server

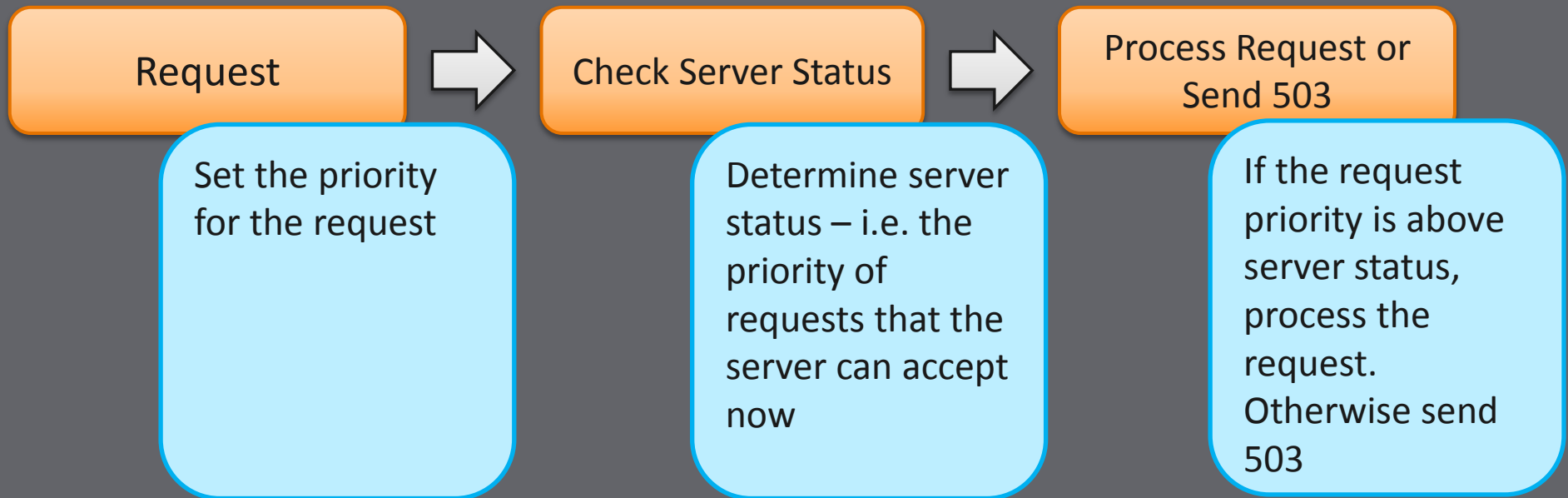


SharePoint Health Analyzer

- New health analysis tool
- Enables you to proactively check for potential problems
 - Configuration
 - Performance
 - Usage problems
- Runs predefined health rules against all servers in the farm
- Health rule runs a test and returns a status
- SharePoint can sometimes help to resolve problems

HTTP Request Throttling

- Refuses user requests when server is overloaded – allowing for more graceful degradation of service



List throttling

- Sets limits on how severely users can put the beat down on your servers
- Limits the amount of rows that can be retrieved for a list or library at any one time
- Example:
 - A list with thousands of items
 - A view that would return all items in the list
 - List throttling won't allow such a request to execute
 - User gets a message that his request exceeds the throttle limit for this list
 - Hit on the server is alleviated

Search Components High Availability

- Crawl component (Index server) becomes stateless
- Enables more scalable Search Topologies
- Crawl history information stored in separate crawler databases
- Both Crawl and Query components now support scaling out and redundancy

Database Mirroring Support

- UI entry point to configure mirroring for most SharePoint databases
 - Supplemental PowerShell commands available where UI entry points are not available (for the Configuration Database)

Database Mirroring Support

Implementation Experience

Database Name and Authentication

Use of the default database server and database name is recommended for most cases. Refer to the administrator's guide for advanced scenarios where specifying database information is required.

Use of Windows authentication is strongly recommended. To use SQL authentication, specify the credentials which will be used to connect to the database.

Failover Server

You can choose to associate a content database with a specific failover server that is used in conjunction with SQL Server database mirroring.

Database Server

Principal Server

Database Name

Content Database

Database authentication

- Windows authentication (recommended)
- SQL authentication

Account

Password

Failover Database Server

Mirror Server

Database Mirroring Benefits

- Complete or almost complete redundancy of the data
- Increases availability of a database
 - Active replica available to support high availability
- Can provide storage and server-level redundancy

Backup and Restore

- SharePoint 2010 Native Backup
- Microsoft Data Protection Manager
- SQL Server Backup
- VSS Writer
- Third party tools
 - Carefully check what you can backup and what you can restore and whether supported methods are used

SharePoint 2010 for IT Pros

Managing
SharePoint

- **Tuesday 15:00 - 16:15**
 - MIT06: SharePoint 2010 Disaster Recovery and High Availability – Michael Noel
- **Tuesday 16:30 - 17:45**
 - MIT07: Windows PowerShell Crash Course for SharePoint Administrators – Don Jones
- **Wednesday 11:15 - 12:30**
 - MIT14: Administering SharePoint Server 2010 with Windows PowerShell – Don Jones
- **Wednesday 13:30 - 14:45**
 - MIT15: Keeping Your Farm Healthy: Logging, Monitoring and Throttling – Mirjam van Olst

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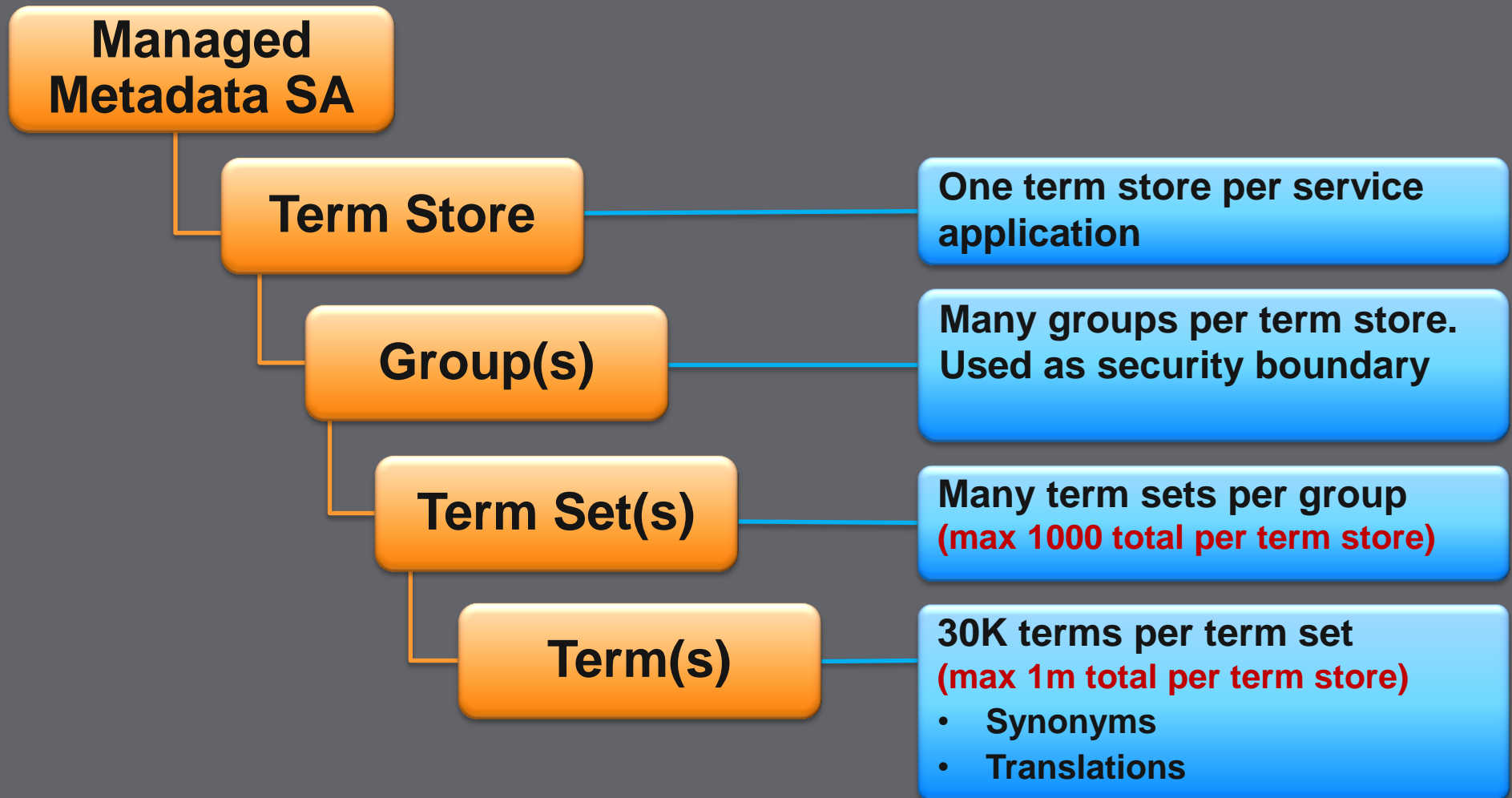
Fancy new features highlighted

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Enterprise Content Management Features

- Managed Metadata Service Application
- Document Centers
- Document ID
- Document Sets
- Metadata Navigation
- Content Type Syndication
- Content Organizer

Managed Metadata Service Application

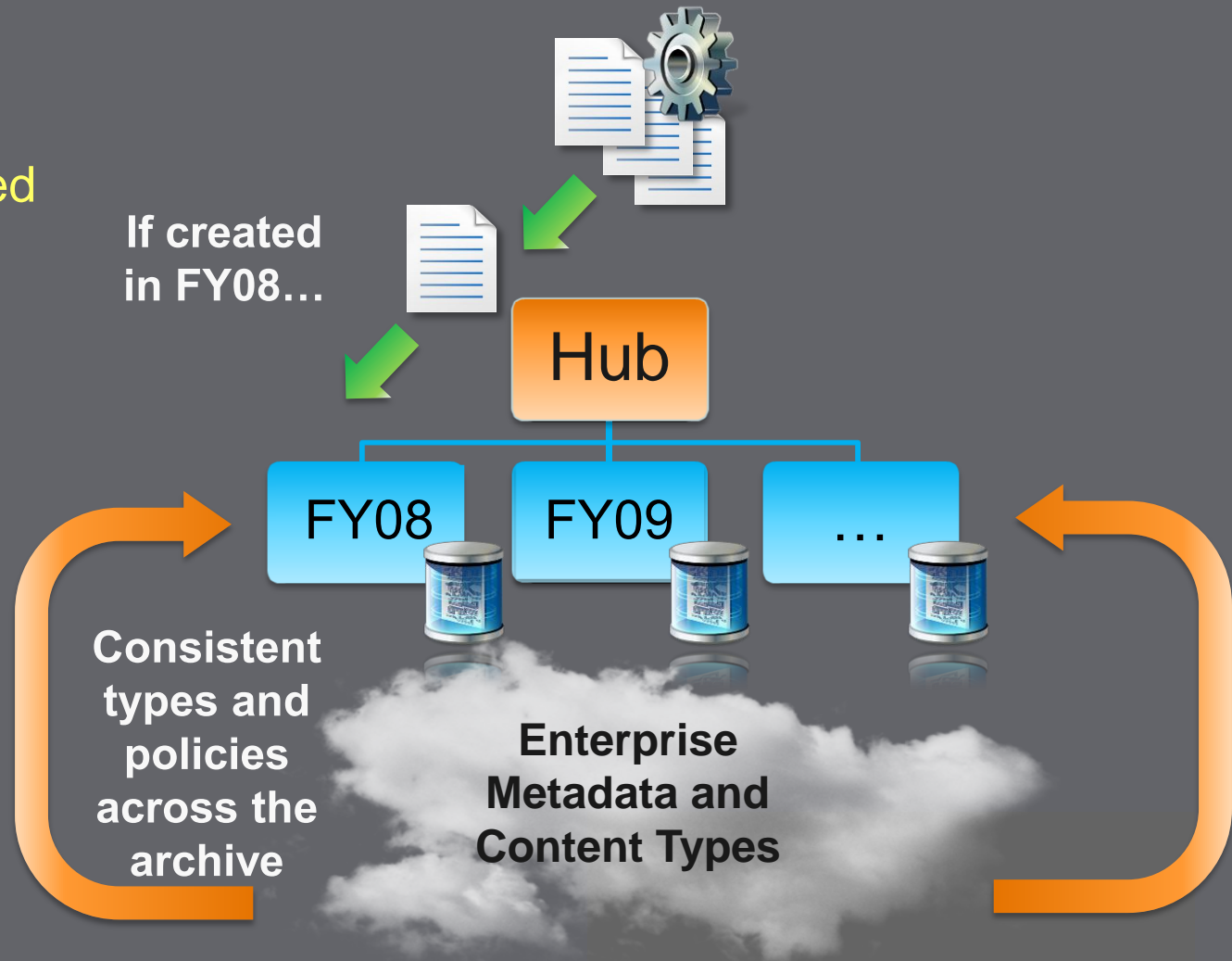


Content Type Syndication

- Synchronizes content types across site collections
- Select site collection as content type hub in central administration
- Set managed metadata service proxy to consume content types from content type store
- Turn on publishing for content types in hub
- Run timer jobs to make content types available in other sites

Massive distributed archives

- Scale is achieved with a distributed architecture
- Content organizer can route content to correct site collection in the archive
- Content type syndication enables central management of distributed archive
- FAST search is used to retrieve content



Content Organizer

- Automatically routes documents to different libraries and folders
- Can be used to automatically create new folders after a certain # documents have been added
- No user intervention required
- Does not work for lists, just libraries
- DropOff folder created when “Content Organizer” site feature is enabled



Content Organizer

- Routing Feature
- Automatically routes documents to different libraries and folders
- Can be used to automatically create new folders after a certain # documents have been added
- No user intervention required
- Does not work for lists, just libraries

SharePoint 2010 for IT Pros

Fancy new
features
highlighted

- **Wednesday 15:00 - 16:15**
 - MIT13: Information Architecture and the Managed Metadata Service: A to Z – Dan Holme
- **Wednesday 16:30 - 17:45**
 - MIT16: SharePoint 2010 Enterprise Content Management for IT Pros – Mirjam van Olst

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Your Feedback is Important

Please fill out a session evaluation form.

Thank you!