Selecting and Protecting the Right SharePoint Backup Targets

Sean McDonough
Product Manager, SharePoint Products
Idera

Housekeeping

- Please remember to complete and turn in your evaluation form. The forms help us improve future events and make you eligible for prize drawings.
- Prize drawings will take place in the large conference room after the last session of the day.
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What we'll cover

What we'll cover

- Define a backup target
- Identify the SharePoint targets
- Examine related backup targets
- Discuss a few esoteric targets and edge case scenarios
- Wrap it all up

but first ...

but first …

Why am I talking about disaster recovery (DR)?

but first …

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- I was a DR architect for a Cincinnati-based financial services and insurance company

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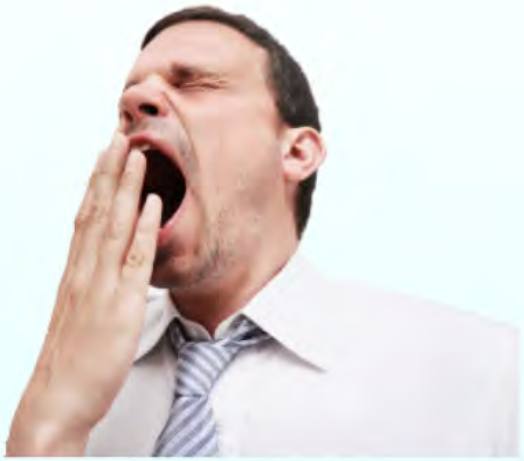
- I've co-authored two books on SharePoint disaster recovery

Why am I talking about disaster recovery (DR)?

- I was a DR architect for a Cincinnati-based financial services and insurance company
- I've co-authored two books on SharePoint disaster recovery
- I'm fascinated by the sight of people yawning.

I'll do my best to keep it interesting …



I'll do my best to
keep it interesting ...

... without getting
too crazy.

Let's talk about

DR

DR

How vs What

D

How w

How to set up a DR farm or warm site

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How to set up a DR farm or warm site

How to perform a backup and restore

How w

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How to establish high availability

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"How" is about tools and procedures

R

s What

What you should be protecting

R

s What

What you should be protecting

What the viable strategies are for a target

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What the viable strategies are for a target

What makes a target unique

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What you should be protecting

What the viable strategies are for a target

What makes a target unique

"What" is all about backup targets

t backup targets

- They can be protected
- Tangible – typically file(s)
- Can be described and referenced in a plan
- Prioritized for protection and recovery

Different target types

- Some are common in all SharePoint environments
- Others vary by farm purpose or by platform technologies in-use

Two different pictures of backup targets

Two different pictures

BCP Picture

- This is how business stakeholders see targets
- Focuses primarily on use cases tied to business activities and data
- Somewhat abstract and less concretely defined

Example: "Systems for inventory tracking and control must be restored"

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c
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BCP = business continuity plan

BCP

Two different pictures

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DR Plan Picture

- Fits within the BCP
- Typically focuses on the platforms & technologies needed by business
- Targets typically defined more concretely than within the BCP

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Example: "The 'Inventory' site collection, Excel services, and BCS connections to SAP must be restored"

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Our focus today

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The technical (DR plan) targets

- What are they?
- Where do they reside?
- When are they important?
- Protection approaches*
- Special considerations and watch-outs

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Important reminder:

Even though this presentation focuses on technical targets, the actual selection and prioritization of targets should be driven by the business.

n) targets

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DR strategy

Business needs

DR Horizon

what we'll cover in this session ...

Core SharePoint targets

aka, "the meat and potatoes"

- Content databases
- Central Admin content DB
- Farm Configuration database
- Service Applications / SSPs
- Search

Related targets

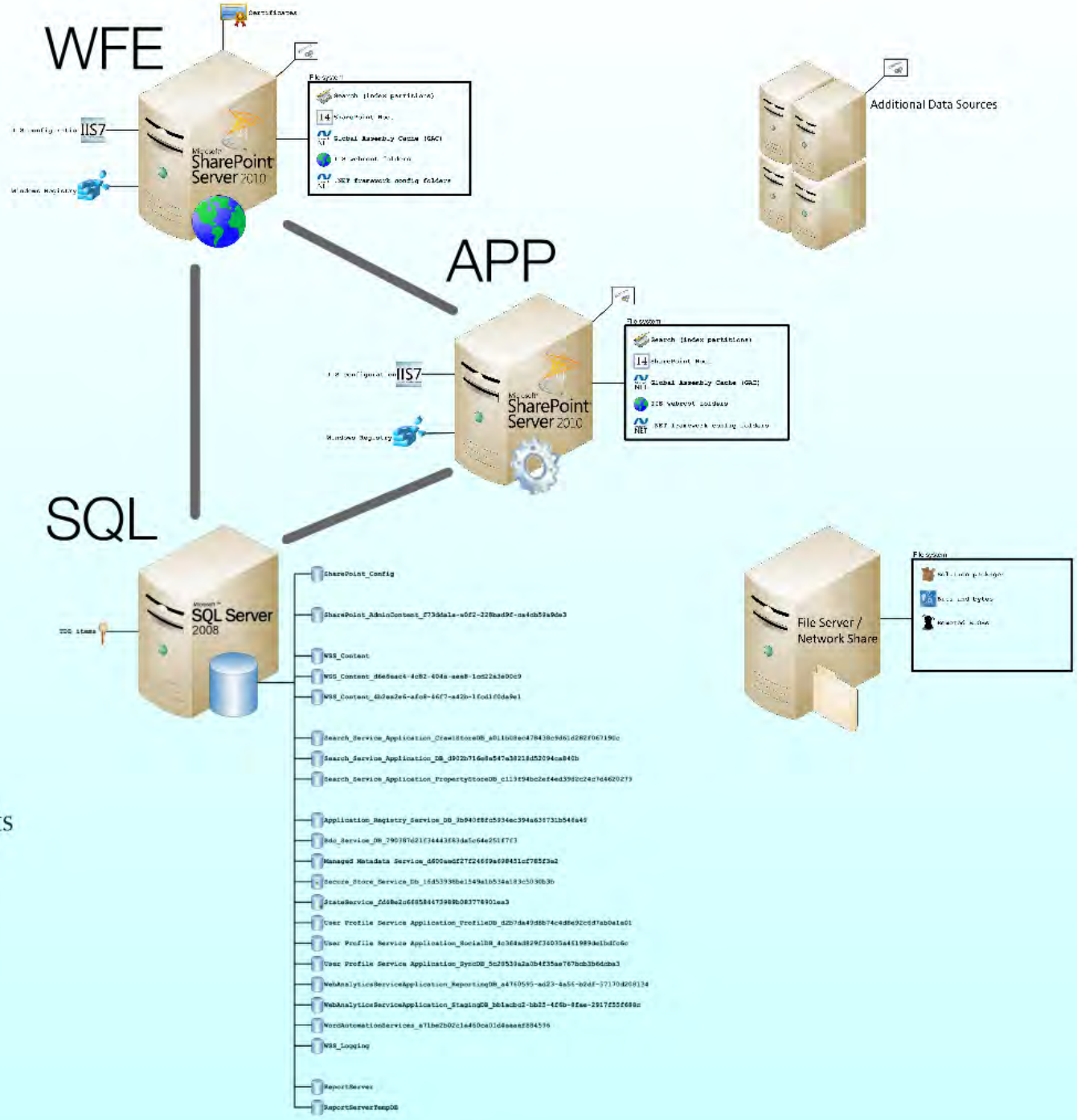
"important to remember"

- Solution packages
- SharePoint Root
- IIS Configuration
- Certificates
- IIS web root
- GAC
- Registry
- Bits and bytes

Edge cases and esoteric targets

sometimes confused with the dark arts ...

- .NET framework config folders
- Remote BLOB storage (RBS)
- SQL Server TDE
- External data sources
- Single server farm ...



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- Houses majority of your users' content
- Must protect; can't be recreated if lost

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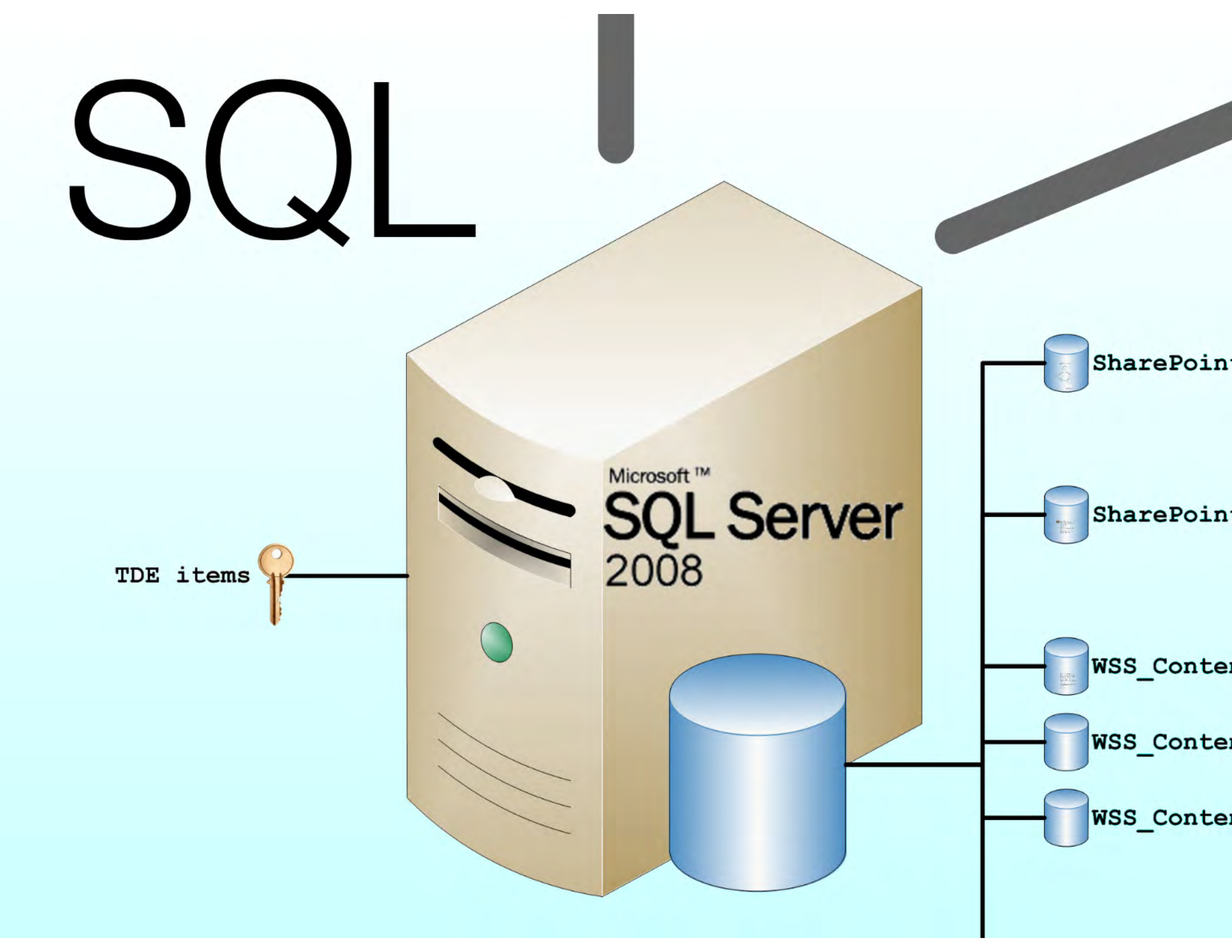
- SQL Server (all those WSS_ databases)
- At least one database per Web application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TDE items
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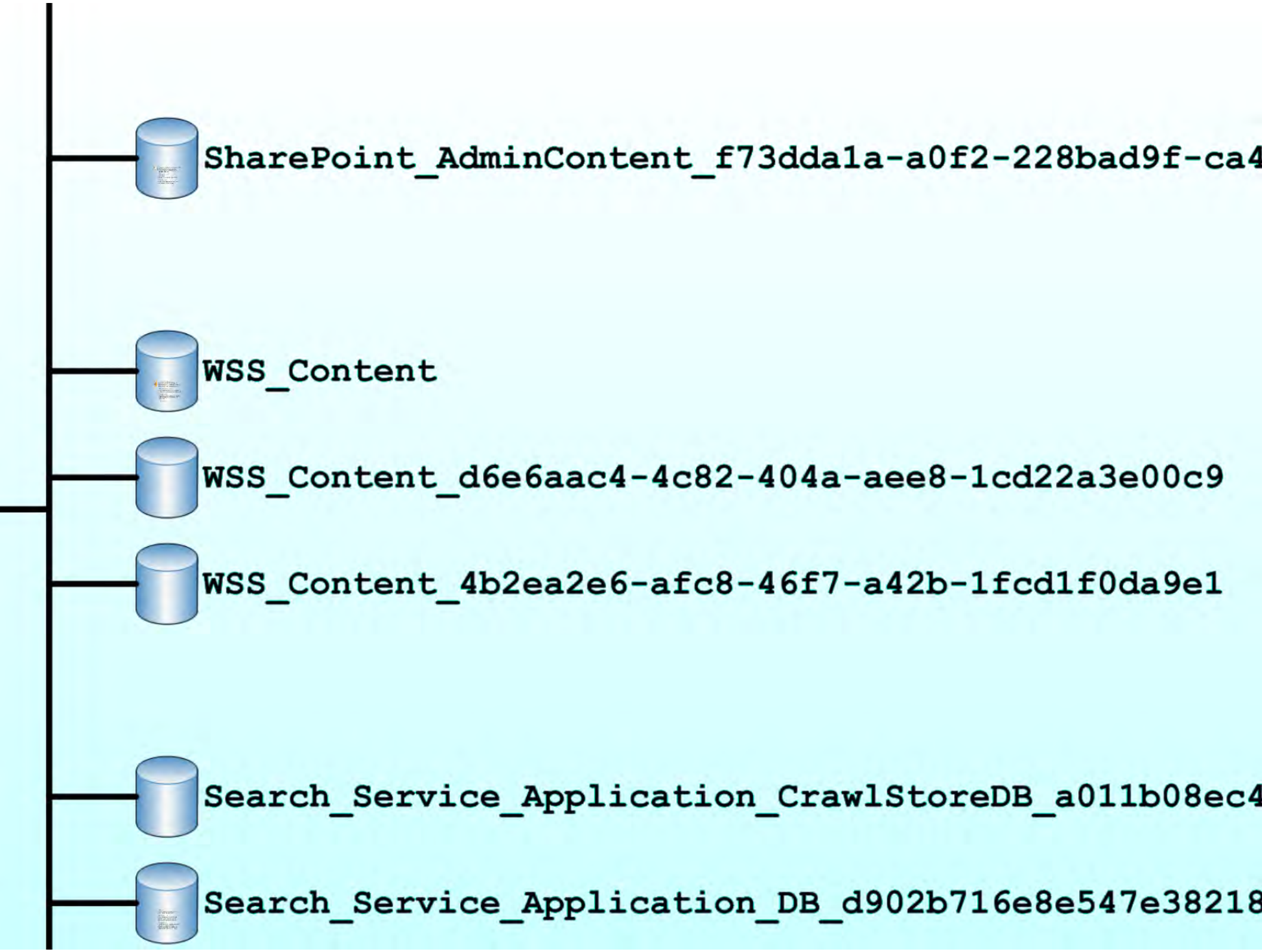
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WSS_Content
WSS_Content_d6e6aac4-4c82-404a-aee8-1cd22a3e00c9
WSS_Content_4b2ea2e6-afc8-46f7-a42b-1fcd1f0da9e1
Search_Service_Application_CrawlStoreDB_a011b08ec4
Search_Service_Application_DB_d902b716e8e547e38218

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Watch out for RBS ...

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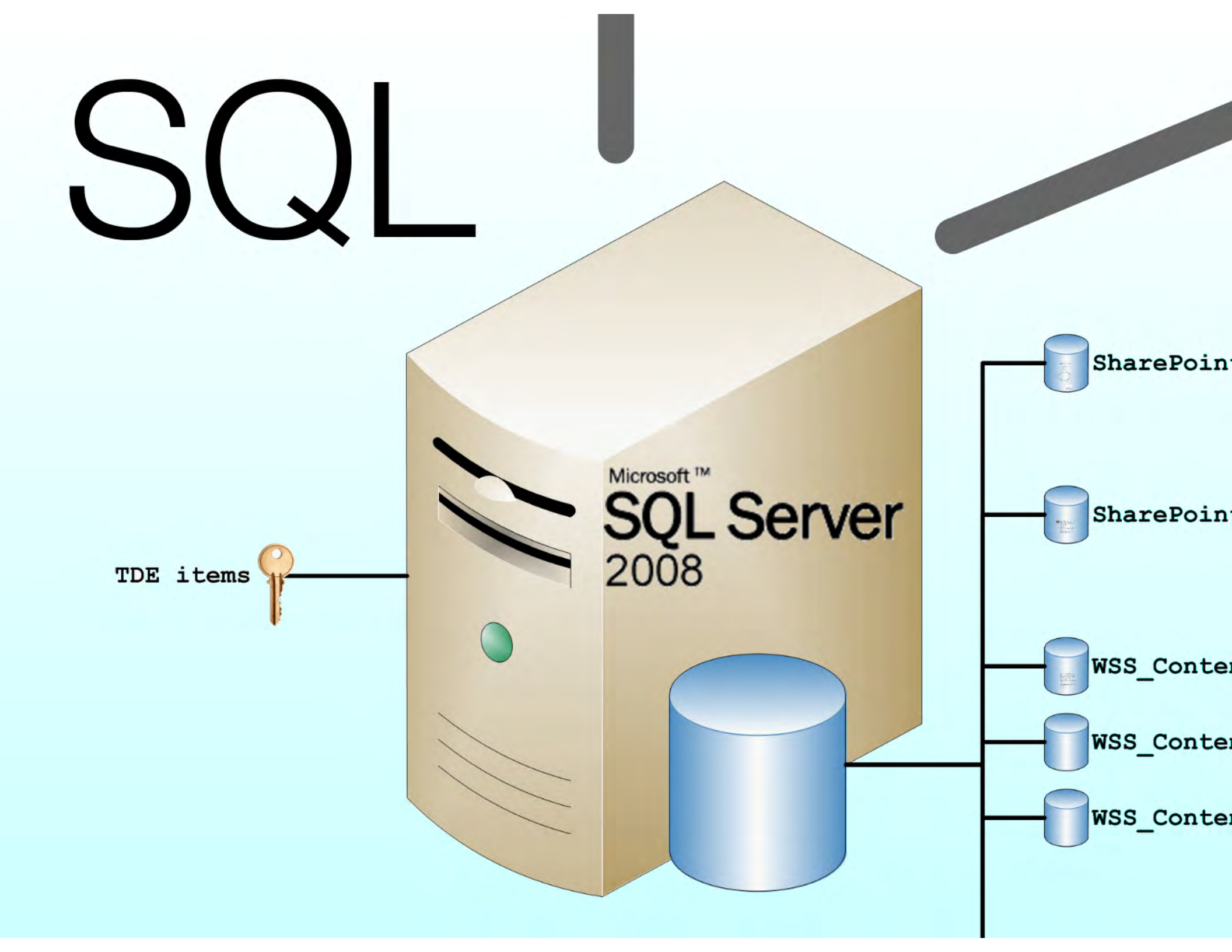
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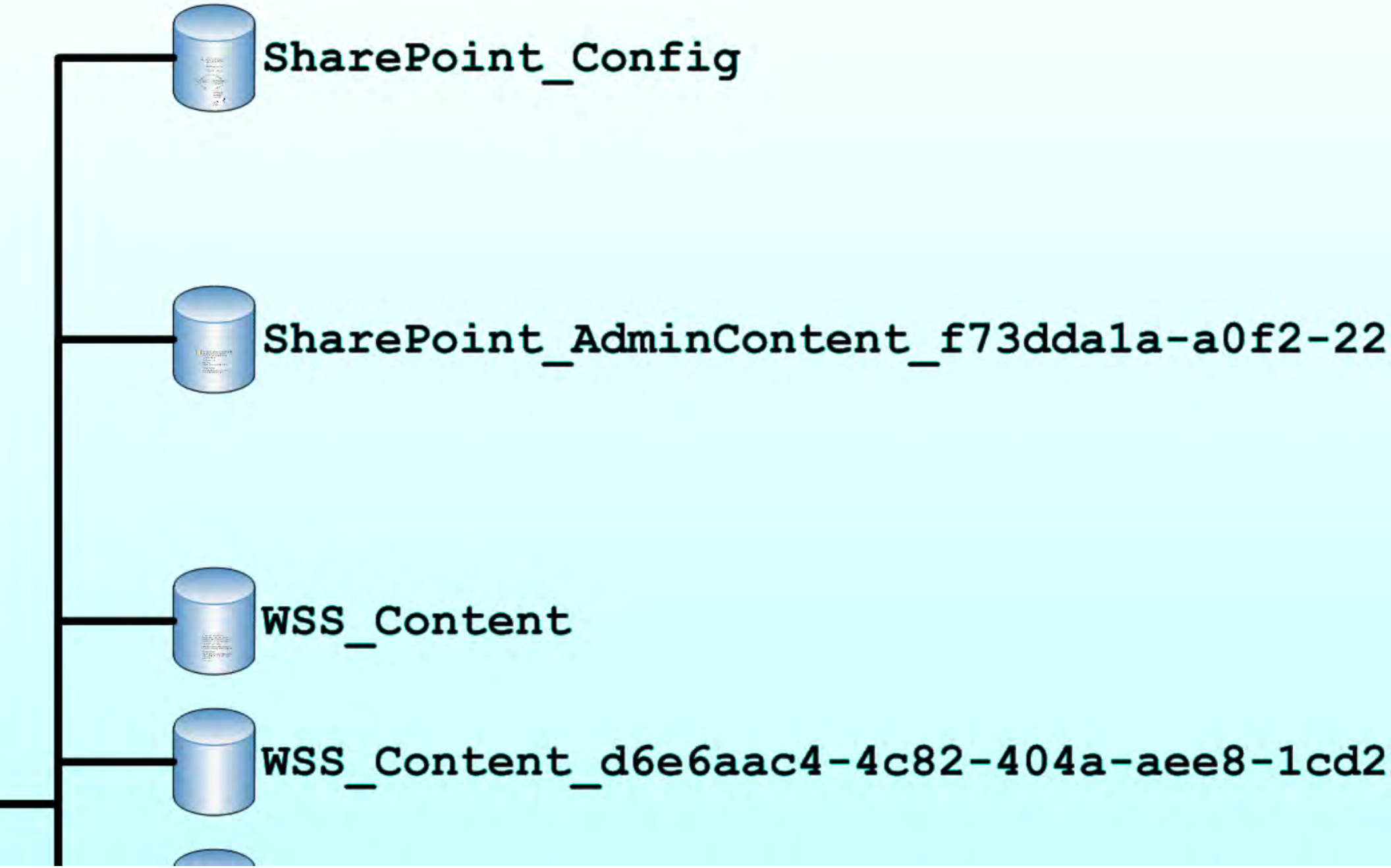
SharePoint_Config
SharePoint_AdminContent_f73dda1a-a0f2-22
WSS_Content
WSS_Content_d6e6aac4-4c82-404a-aee8-1cd2

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Protection

- Farm provisioning creates a new one
- Not usually worth protecting*

Farm Configuration DB

- Repository for farm-wide configuration data, web application settings, services information, and more

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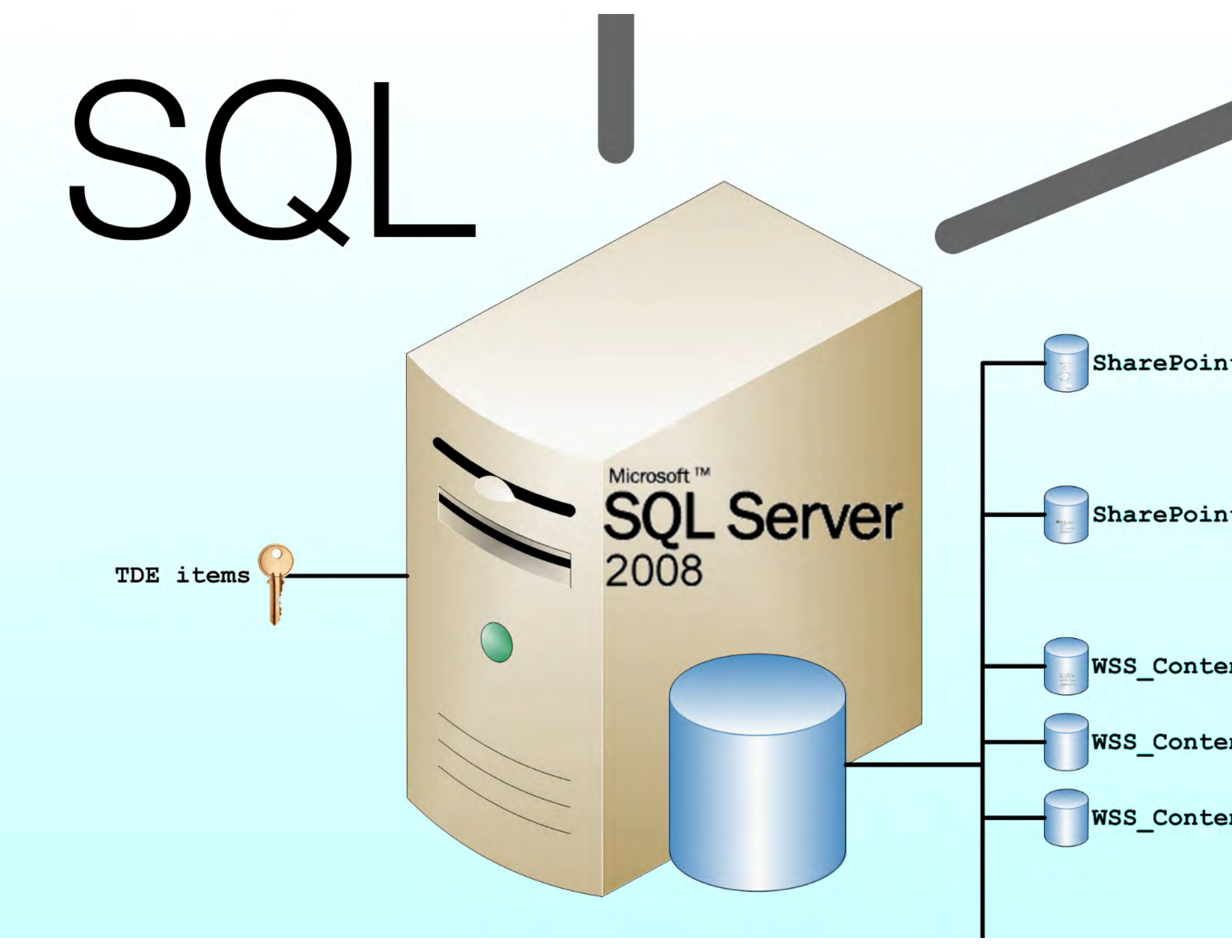
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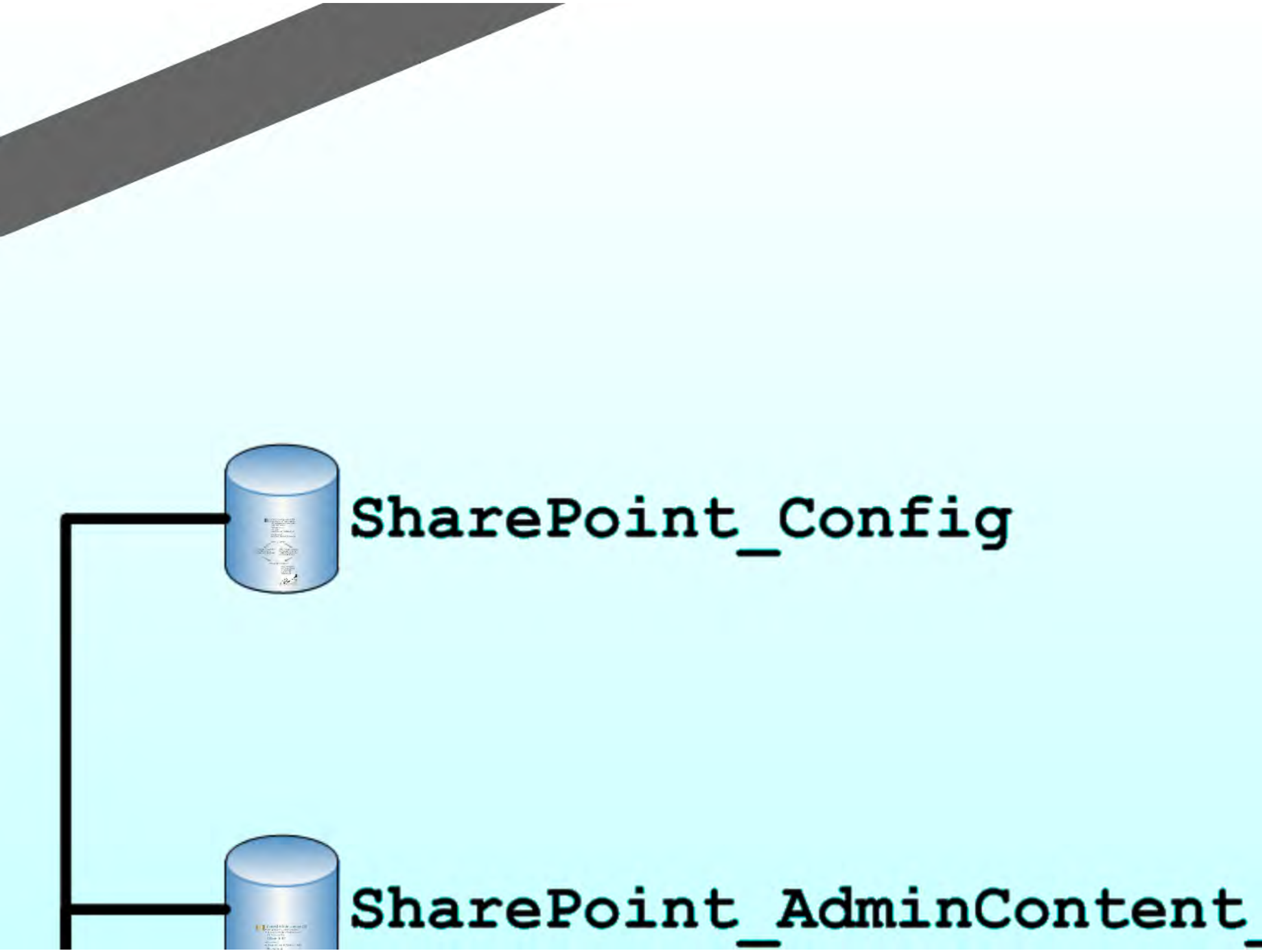
SharePoint_Config
SharePoint_AdminContent_

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2007 vs 2010

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Not portable or supported for stand-alone restore, so backup value is questionable

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Now that I've said that ...

2010

Still not portable or supported for stand-alone restore, but configuration backup/restore is now possible in 2010!

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Protection options

options

- SharePoint backups
- SQL Server backups
- HA mechanisms
- Documentation
- 3rd party tools

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Service Applications (2010)
Shared Service Providers (2007)

- A collection of services that are consumed by Web applications and their site collections

  Excel services, Managed Metadata Service, BDC/BCS, User Profile Service, etc.

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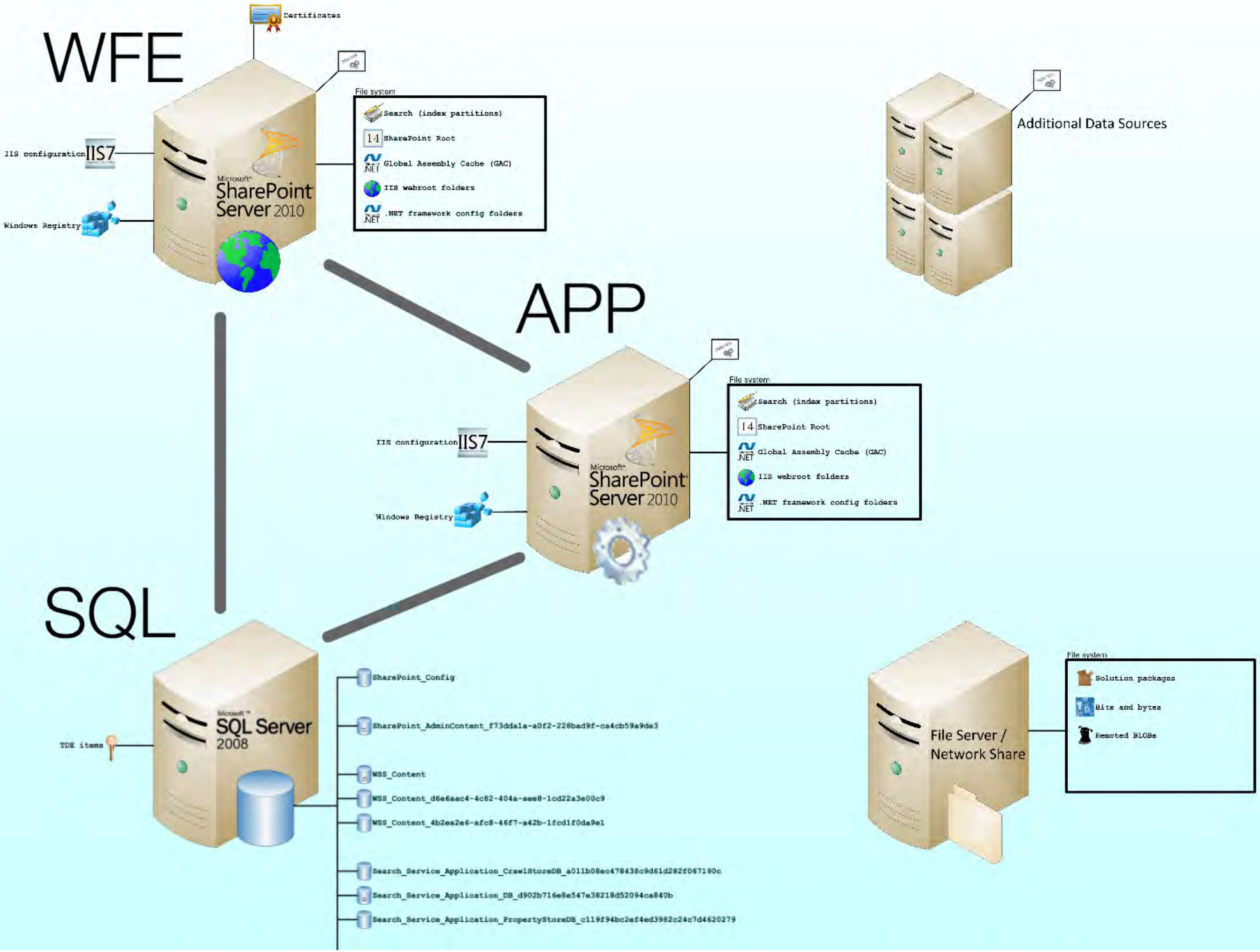
Where are they?

- Simple answer: all over the place ...


WFE
Certificates
File system
Search (index partitions)
14 SharePoint Root
Global Assembly Cache (GAC)
IIS webroot folders
.NET framework config folders
IIS configuration
IIS7
Windows Registry
Microsoft SharePoint Server 2010
Additional Data Sources
APP
File system
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WSS_Content
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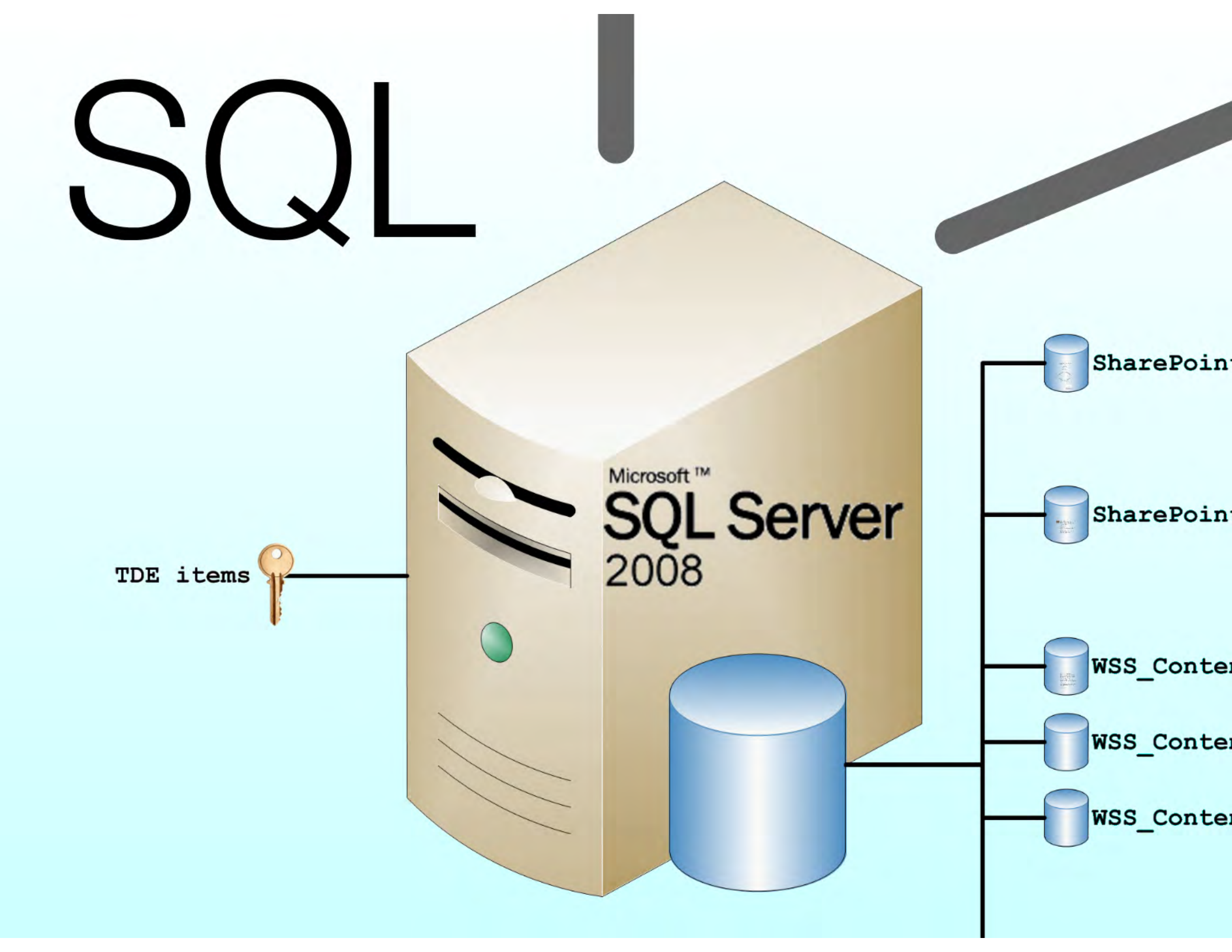
File Server / Network Share
File system
Solution packages
Bits and bytes
Remoted BLOBs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Bdc_Service_DB_790387d21f34443f83da5c64e251f7f3
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User Profile Service Application_ProfileDB_d2b7da49d8b74c4d8e92c6d7ab0a1a01
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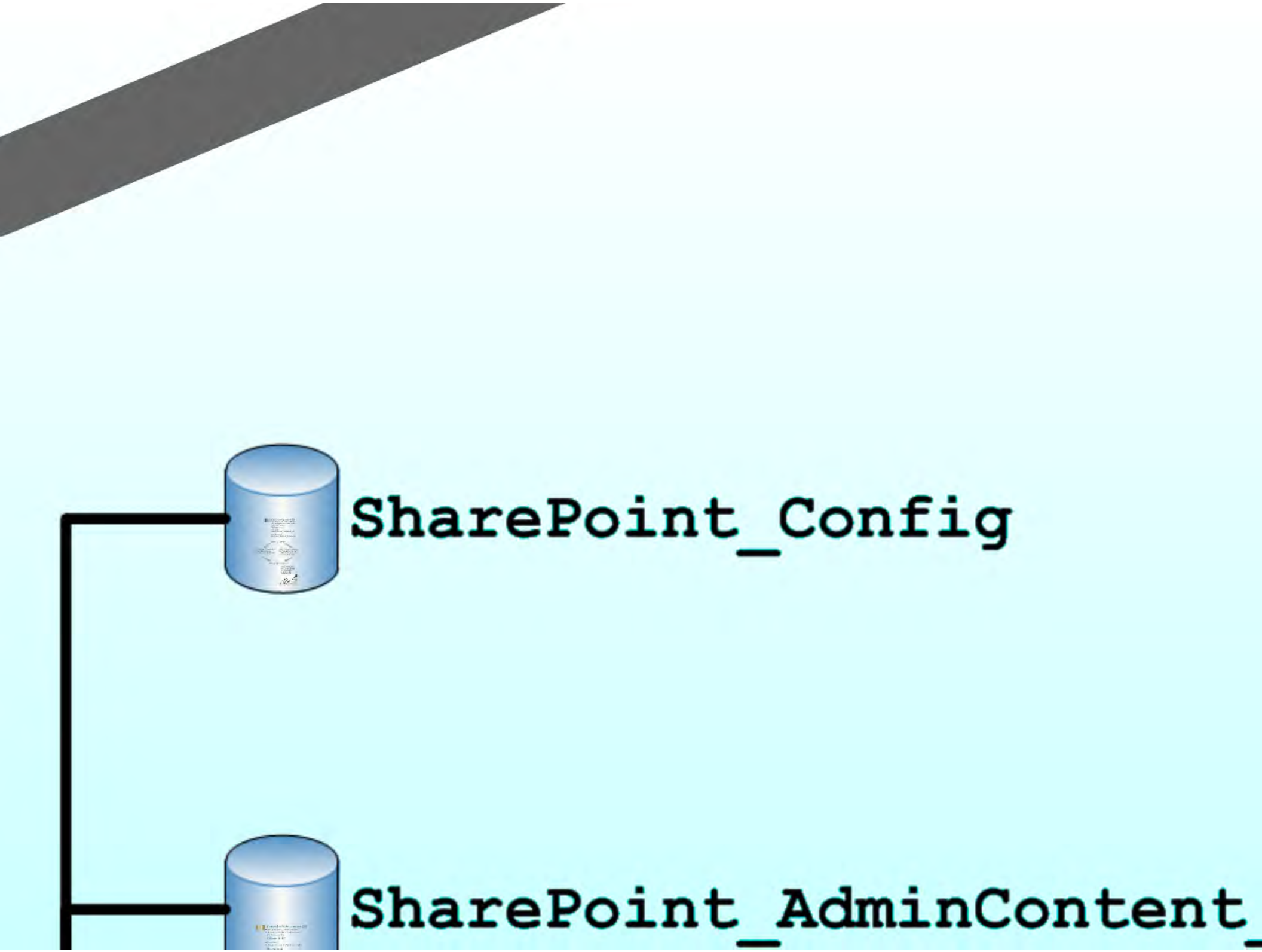
WSS_Logging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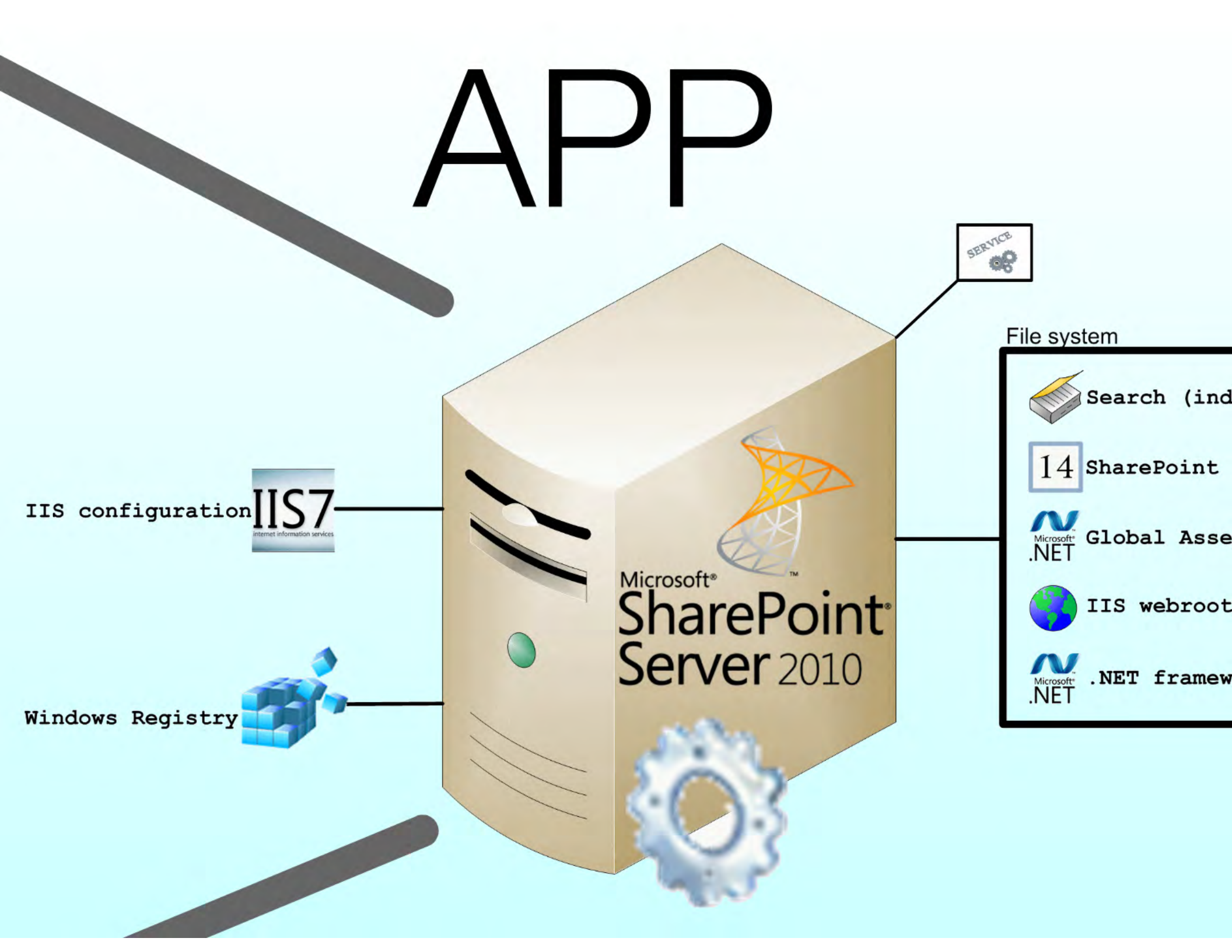
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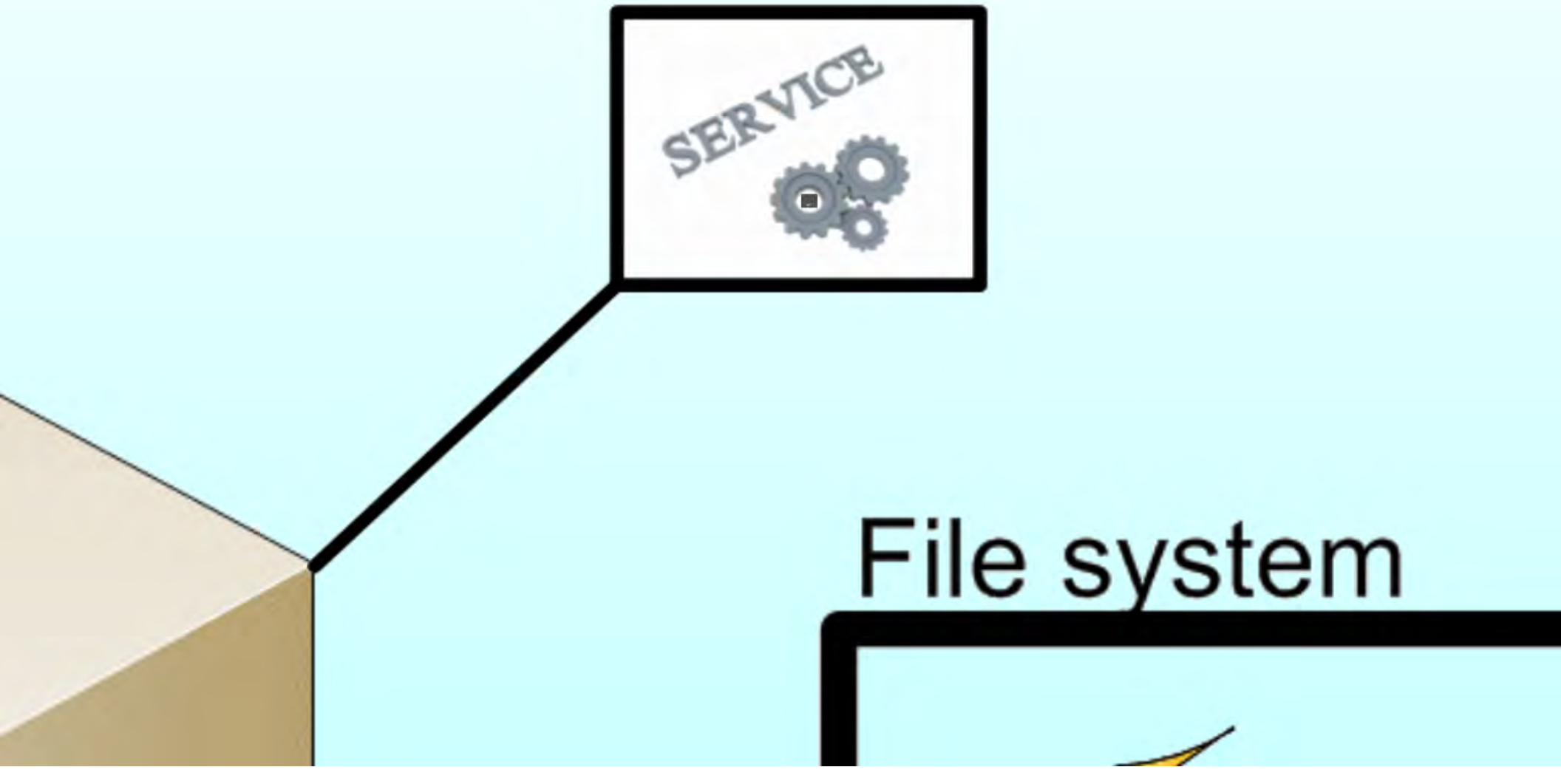
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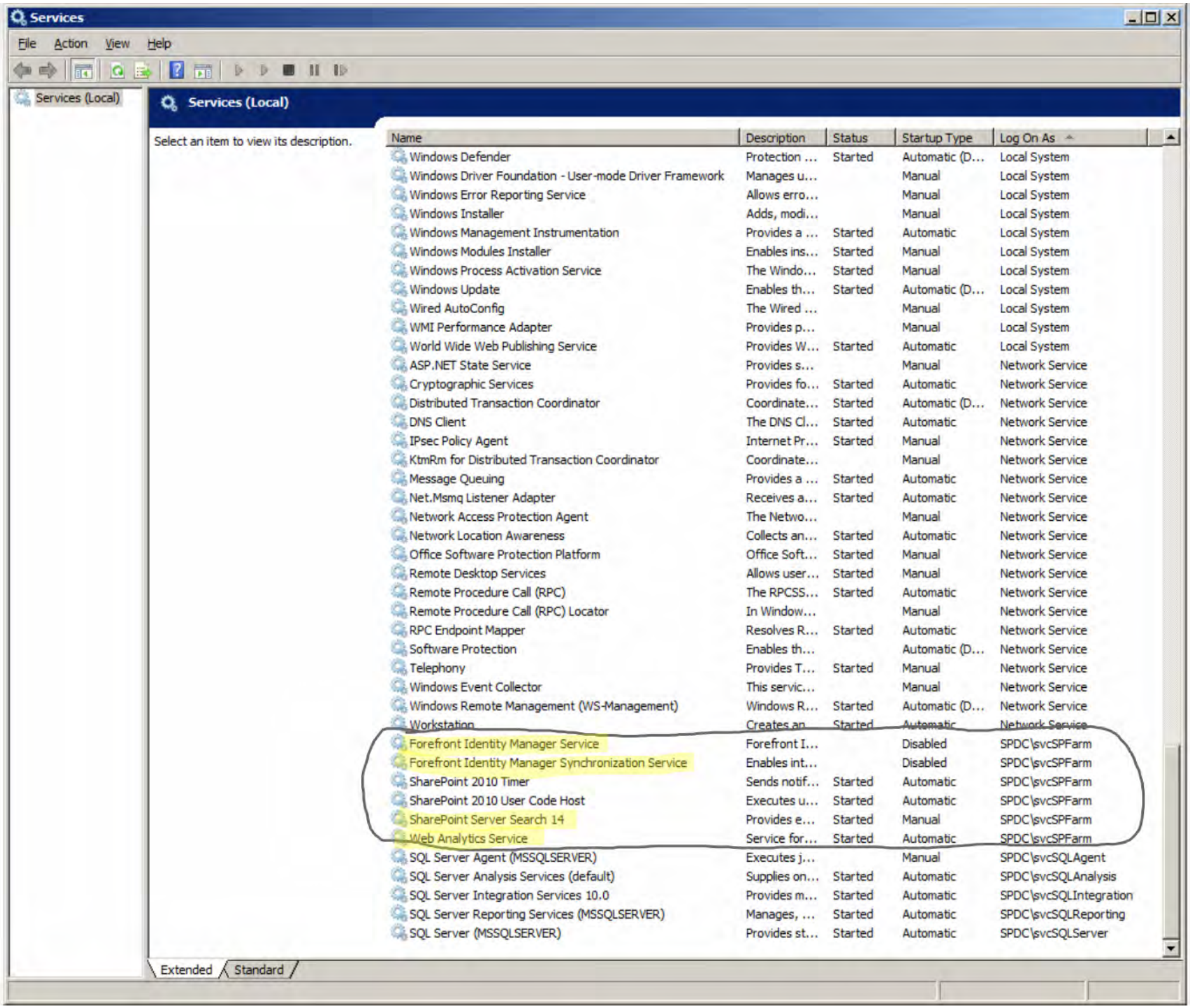
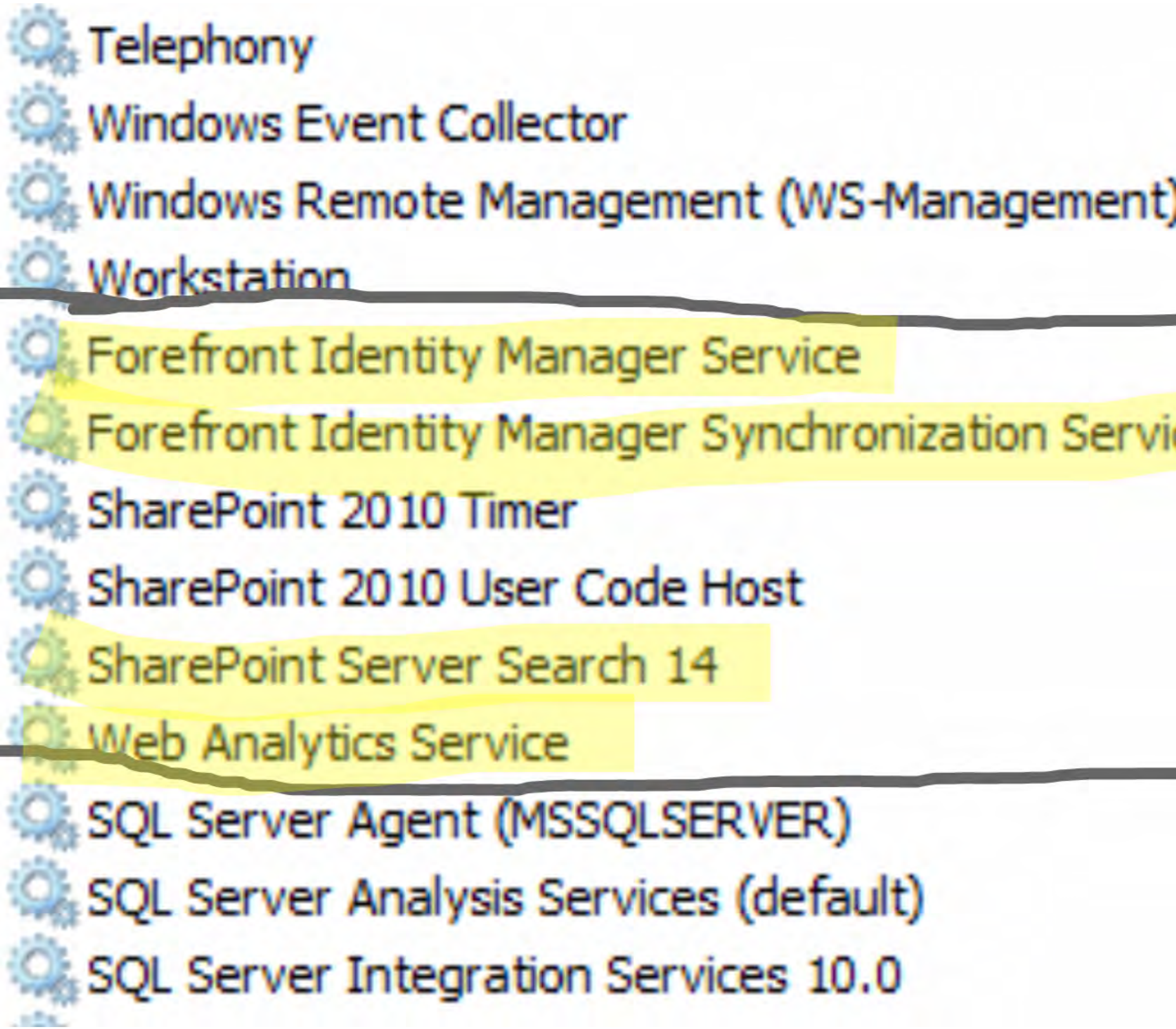
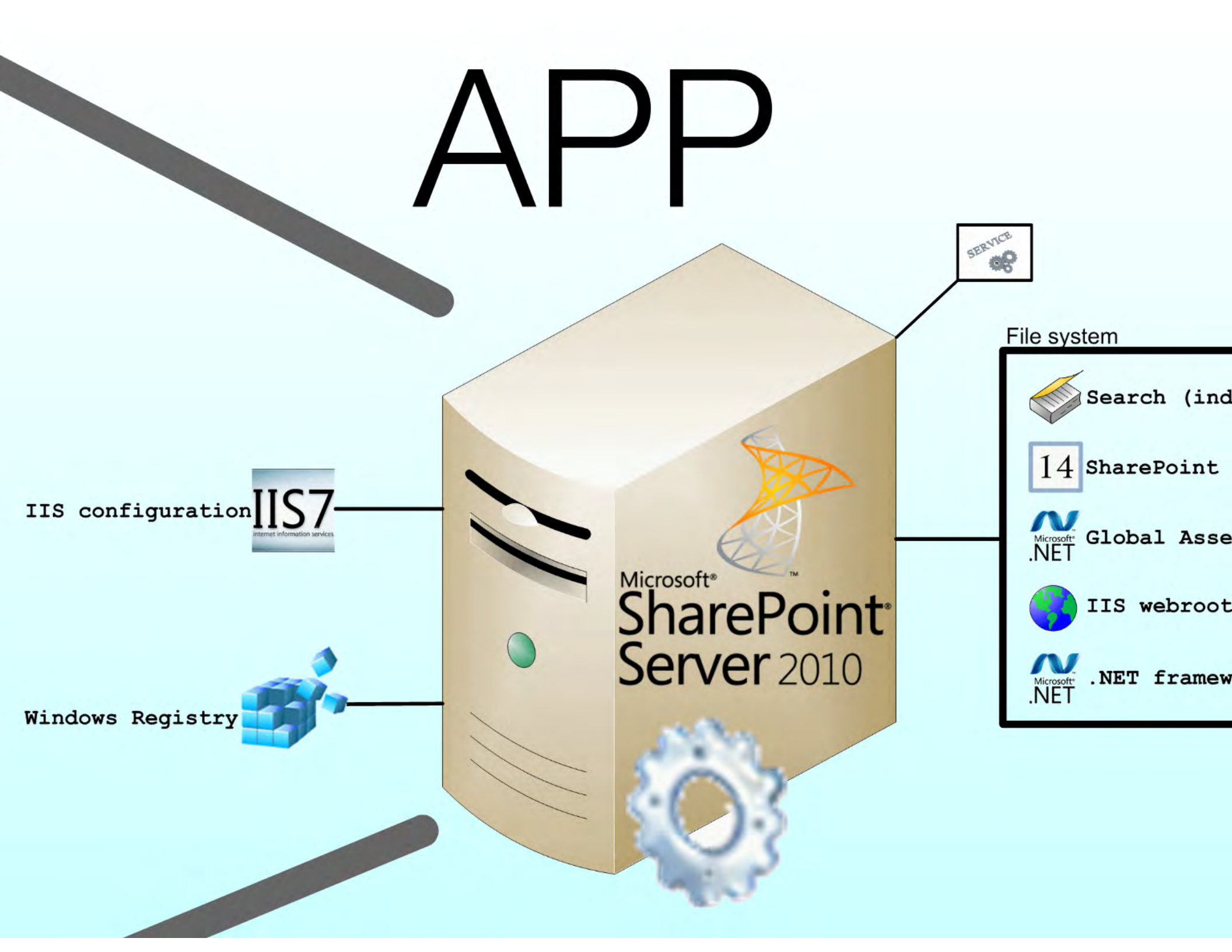

Services
File Action View Help
Services (Local)
Services (Local)
Select an item to view its description.
Name | Description | Status | Startup Type | Log On As
Windows Defender | Protection ... | Started | Automatic (D... | Local System
Windows Driver Foundation - User-mode Driver Framework | Manages u... | | Manual | Local System
Windows Error Reporting Service | Allows erro... | | Manual | Local System
Windows Installer | Adds, modi... | | Manual | Local System
Windows Management Instrumentation | Provides a ... | Started | Automatic | Local System
Windows Modules Installer | Enables ins... | Started | Manual | Local System
Windows Process Activation Service | The Windo... | Started | Manual | Local System
Windows Update | Enables th... | Started | Automatic (D... | Local System
Wired AutoConfig | The Wired ... | | Manual | Local System
WMI Performance Adapter | Provides p... | | Manual | Local System
World Wide Web Publishing Service | Provides W... | Started | Automatic | Local System
ASP.NET State Service | Provides s... | | Manual | Network Service
Cryptographic Services | Provides fo... | Started | Automatic | Network Service
Distributed Transaction Coordinator | Coordinate... | Started | Automatic (D... | Network Service
DNS Client | The DNS Cl... | Started | Automatic | Network Service
IPsec Policy Agent | Internet Pr... | Started | Manual | Network Service
KtmRm for Distributed Transaction Coordinator | Coordinate... | | Manual | Network Service
Message Queuing | Provides a ... | Started | Automatic | Network Service
Net.Msmq Listener Adapter | Receives a... | Started | Automatic | Network Service
Network Access Protection Agent | The Netwo... | | Manual | Network Service
Network Location Awareness | Collects an... | Started | Automatic | Network Service
Office Software Protection Platform | Office Soft... | Started | Manual | Network Service
Remote Desktop Services | Allows user... | Started | Manual | Network Service
Remote Procedure Call (RPC) | The RPCSS... | Started | Automatic | Network Service
Remote Procedure Call (RPC) Locator | In Window... | | Manual | Network Service
RPC Endpoint Mapper | Resolves R... | Started | Automatic | Network Service
Software Protection | Enables th... | | Automatic (D... | Network Service
Telephony | Provides T... | Started | Manual | Network Service
Windows Event Collector | This servic... | | Manual | Network Service
Windows Remote Management (WS-Management) | Windows R... | Started | Automatic (D... | Network Service
Workstation | Creates an... | Started | Automatic | Network Service
Forefront Identity Manager Service | Forefront I... | | Disabled | SPDC\svcSPFarm
Forefront Identity Manager Synchronization Service | Enables int... | | Disabled | SPDC\svcSPFarm
SharePoint 2010 Timer | Sends notif... | Started | Automatic | SPDC\svcSPFarm
SharePoint 2010 User Code Host | Executes u... | Started | Automatic | SPDC\svcSPFarm
SharePoint Server Search 14 | Provides e... | Started | Manual | SPDC\svcSPFarm
Web Analytics Service | Service for... | Started | Automatic | SPDC\svcSPFarm
SQL Server Agent (MSSQLSERVER) | Executes j... | | Manual | SPDC\svcSQLAgent
SQL Server Analysis Services (default) | Supplies on... | Started | Automatic | SPDC\svcSQLAnalysis
SQL Server Integration Services 10.0 | Provides m... | Started | Automatic | SPDC\svcSQLIntegration
SQL Server Reporting Services (MSSQLSERVER) | Manages, ... | Started | Automatic | SPDC\svcSQLReporting
SQL Server (MSSQLSERVER) | Provides st... | Started | Automatic | SPDC\svcSQLServer
Extended Standard


Telephony
Windows Event Collector
Windows Remote Management (WS-Management)
Workstation
Forefront Identity Manager Service
Forefront Identity Manager Synchronization Service
SharePoint 2010 Timer
SharePoint 2010 User Code Host
SharePoint Server Search 14
Web Analytics Service
SQL Server Agent (MSSQLSERVER)
SQL Server Analysis Services (default)
SQL Server Integration Services 10.0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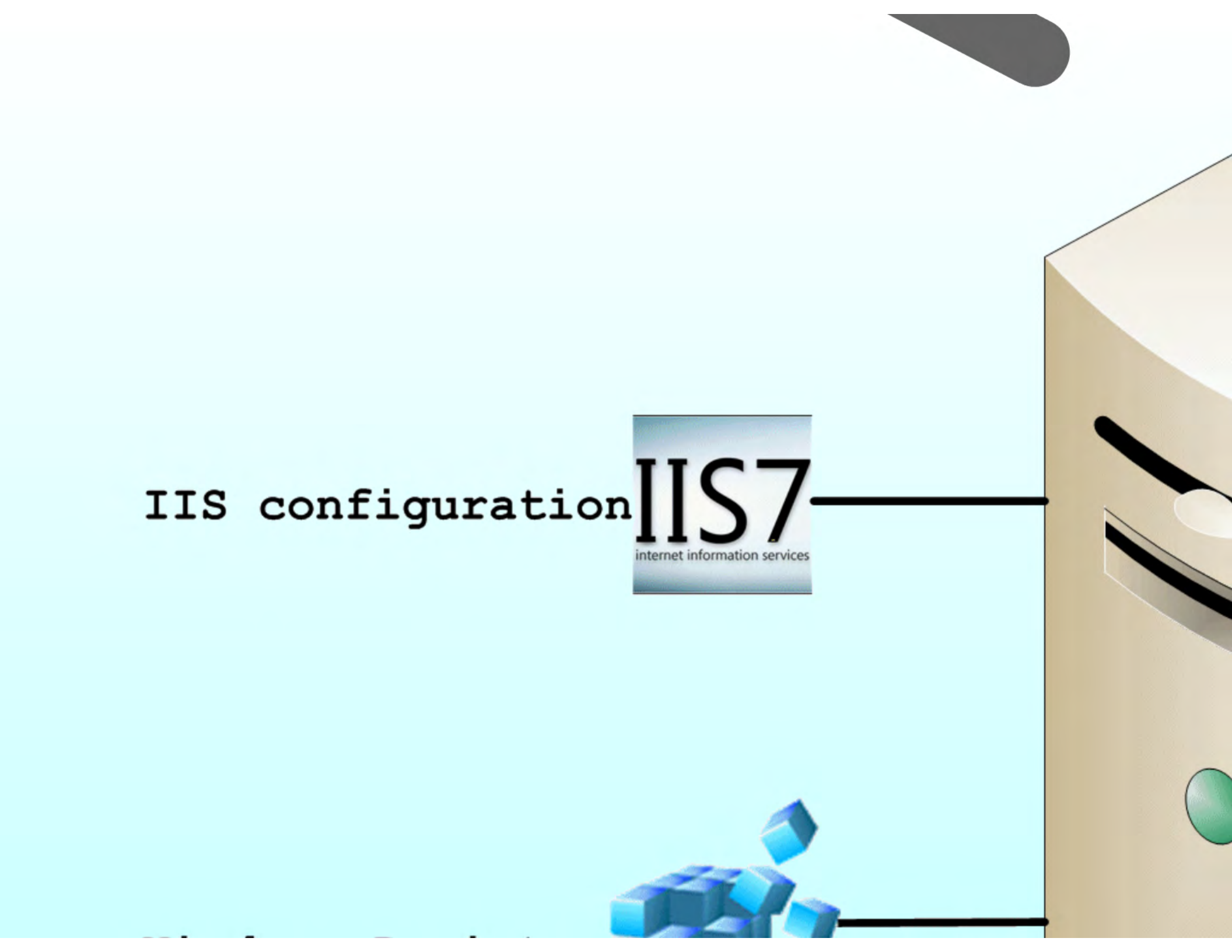
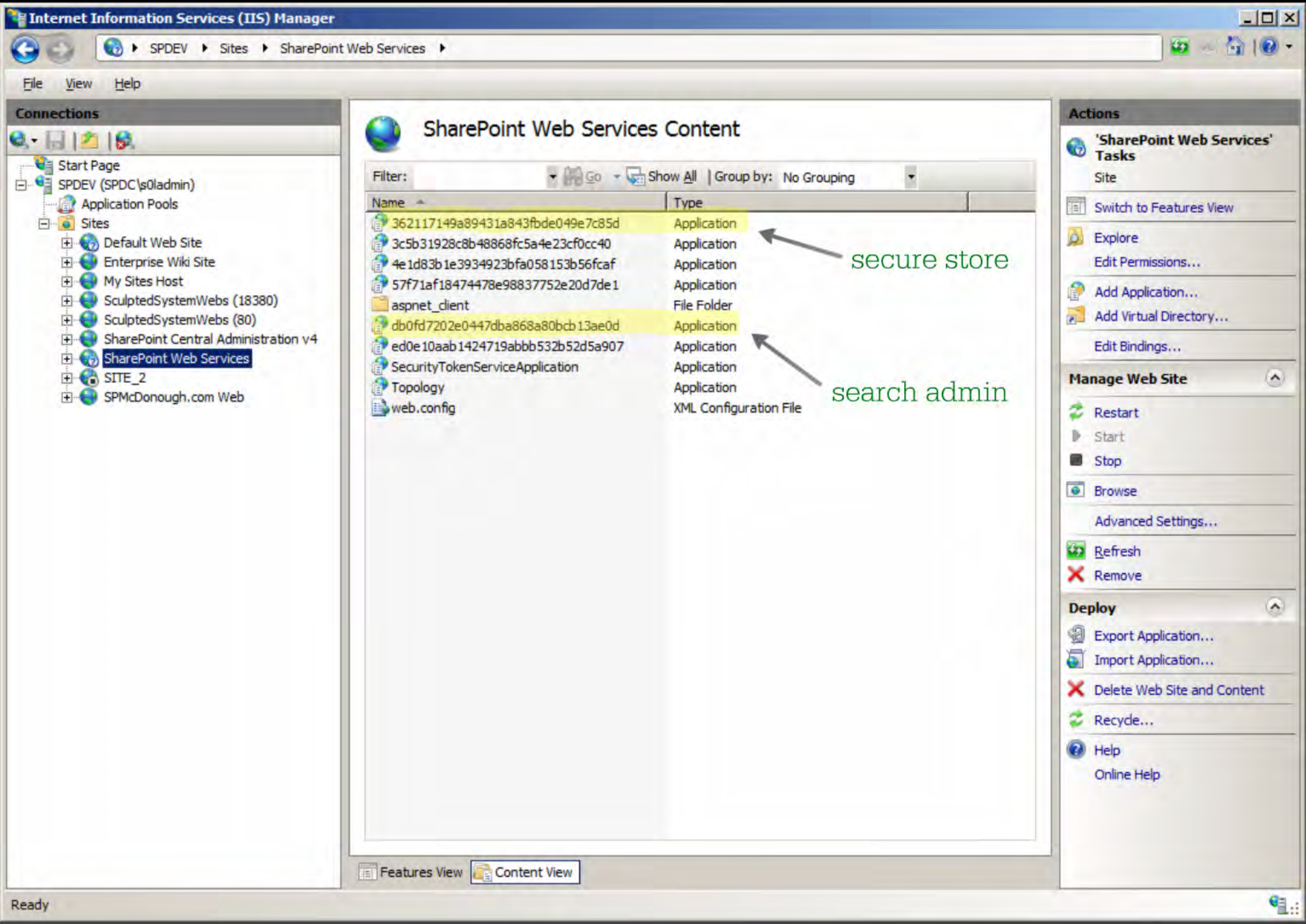

IIS configuration
IIS7
internet information services


Internet Information Services (IIS) Manager
SPDEV ▸ Sites ▸ SharePoint Web Services ▸
File View Help
Connections
Start Page
SPDEV (SPDC\s0ladmin)
Application Pools
Sites
Default Web Site
Enterprise Wiki Site
My Sites Host
SculptedSystemWebs (18380)
SculptedSystemWebs (80)
SharePoint Central Administration v4
SharePoint Web Services
SITE_2
SPMcDonough.com Web
SharePoint Web Services Content
Filter:
Go
Show All
Group by: No Grouping
Name
Type
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SecurityTokenServiceApplication Application
Topology Application
web.config XML Configuration File
secure store
search admin
Features View
Content View
Actions
'SharePoint Web Services' Tasks
Site
Switch to Features View
Explore
Edit Permissions...
Add Application...
Add Virtual Directory...
Edit Bindings...
Manage Web Site
Restart
Start
Stop
Browse
Advanced Settings...
Refresh
Remove
Deploy
Export Application...
Import Application...
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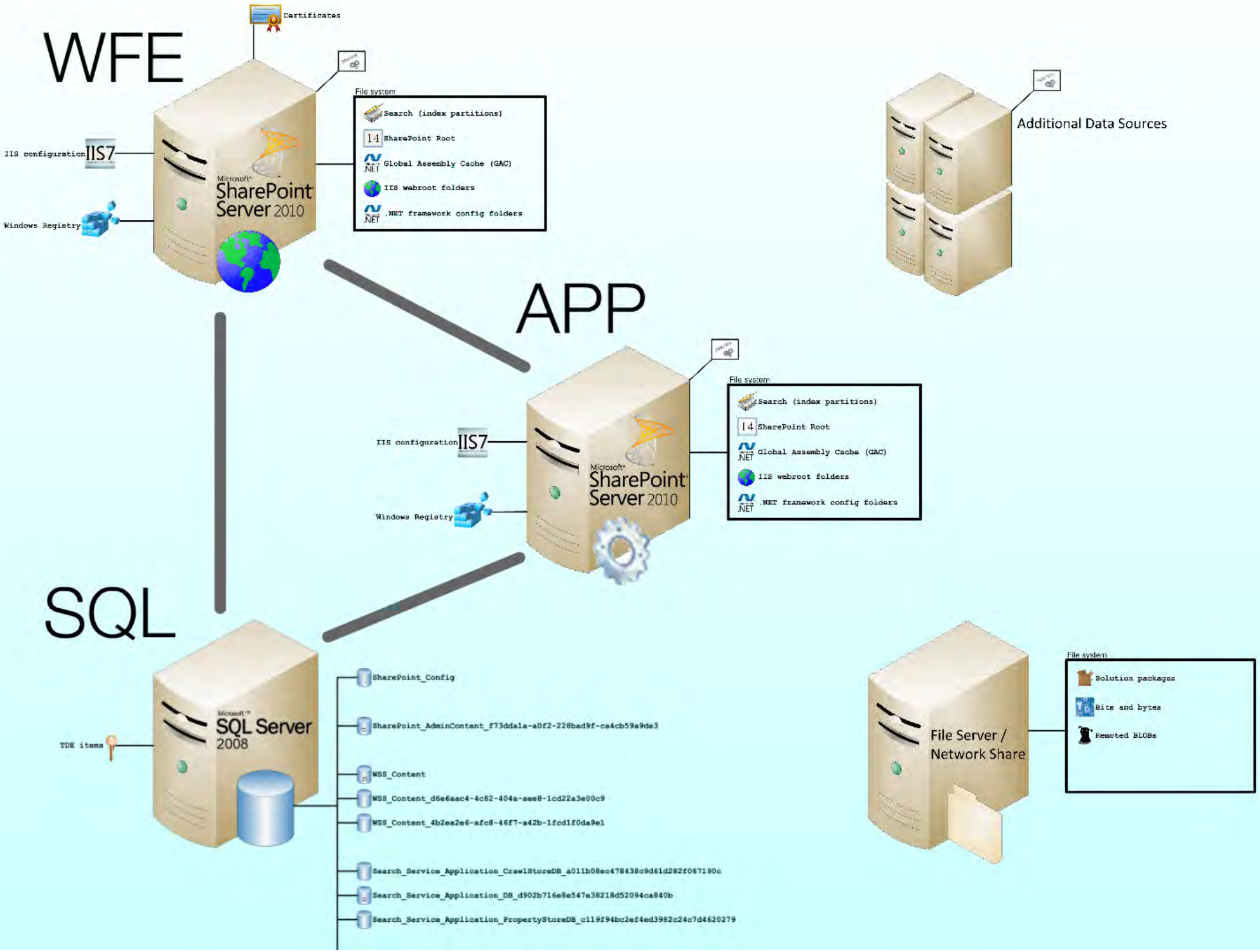
Recycle...
Help
Online Help
Ready


WFE
Certificates
File system
Search (index partitions)
14 SharePoint Root
Global Assembly Cache (GAC)
IIS webroot folders
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SQL
TDE items
Microsoft SQL Server 2008
SharePoint_Config
SharePoint_AdminContent_f73ddala-a0f2-228bad9f-ca4cb59a9de3
WSS_Content
WSS_Content_d6e6aac4-4c82-404a-aee8-1cd22a3e00c9
WSS_Content_4b2ea2e6-afc8-46f7-a42b-1fcd1f0da9e1
Search_Service_Application_CrawlStoreDB_a011b08ec478438c9d61d282f067190c
Search_Service_Application_DB_d902b716e8e547e38218d52094ca840b
Search_Service_Application_PropertyStoreDB_c119f94bc2ef4ed3982c24c7d4620279
File Server / Network Share
File system
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Bits and bytes
Remoted BLOBs

Protecting them

- Farm backup (ideal)
- Categorically (e.g., SSP backup)
- 3rd party tools

or

- Protect databases and augment with documentation of config/settings

Test, test, TEST!!!

Microsoft SharePoint 2010

Central Administration ▸ Perform a Backup - Step 1 of 2: Select Component to Back Up

Select the items you want to back up. Click **Next** to continue the backup process.

Central Administration
Application Management
System Settings
Monitoring
Backup and Restore
Security
Upgrade and Migration
General Application Settings
Configuration Wizards

Readiness

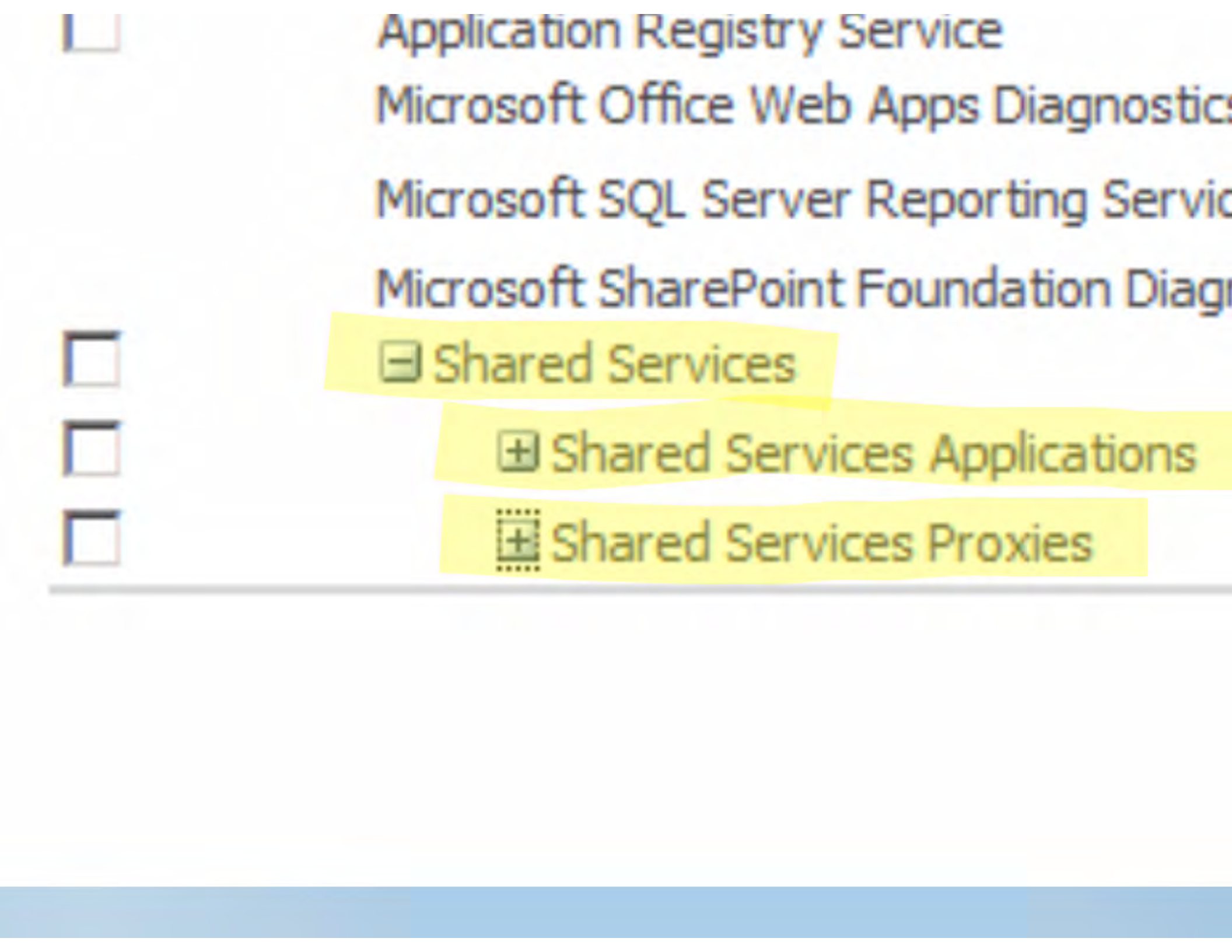
No backup or restore in progress. Backup and Restore Job Status
Timer service is running.
Administration service is running.

Select component to back up

Select the top-level component to back up. You can also click the name of a Web application to browse its contents.

Select	Component	Type	Description
☐	⊟ Farm	Farm	Content and configuration data for the entire server farm.
	SP2010_ConfigDB	Configuration Database	Configuration data for the entire server farm.
☐	⊟ InfoPath Forms Services	Server Settings and Content	Administrator-approved content and settings for the server farm.
☐	Settings	Settings	Settings
☐	Data Connections	Data Connections	Administrator-approved data connection files.
☐	Form Templates	Form Templates	Administrator-approved form templates.
☐	⊞ Exempt User Agents	Exempt User Agents	The collection of user agents that receive InfoPath forms instead of Web pages.
☐	⊟ SharePoint Server State Service	State Service	Service for storage of temporary state information used by various SharePoint Server features.
	⊞ State Service Application	State Service Application	
☐	⊟ Microsoft SharePoint Foundation Web Application	Microsoft SharePoint Foundation Web Application	Collection of Web Applications
☐	⊞ Enterprise Wiki Site	Web Application	Content and configuration data for this Web application.
☐	⊞ My Sites Host	Web Application	Content and configuration data for this Web application.
☐	⊞ SculptedSystemWebs (18380)	Web Application	Content and configuration data for this Web application.
☐	⊞ SPMcDonough.com Web	Web Application	Content and configuration data for this Web application.
	⊟ WSS_Administration	Central Administration	Collection of Web Applications
	⊞ SharePoint Central Administration v4	Web Application	Content and configuration data for this Web application.
☐	⊟ SharePoint Server State Service Proxy	State Service Proxy	
	State Service Application Proxy	State Service Application Proxy	
☐	⊟ SPUserCodeV4	Microsoft SharePoint Foundation Sandboxed Code Service	Settings for the Sandboxed Code Service.
	[Solution Validators Group.]	Backup Group	Collection of components grouped together for backup and restore.
	Sandboxed Code Load Balancer Provider using Popularity	Sandboxed Code Load Balancer Provider using Popularity	
	[Resource Measures Group.]	Backup Group	Collection of components grouped together for backup and restore.
	[Execution Tiers Group.]	Backup Group	Collection of components grouped together for backup and restore.
	Microsoft SharePoint Server Diagnostics Service	Microsoft SharePoint Server Diagnostics Service	Settings for the diagnostics service.
☐	Global Search Settings	Search object in configuration database	Crawler impact rules for the farm
☐	Application Registry Service	Application Registry Service	Backwards compatible Business Data Connectivity API.
	Microsoft Office Web Apps Diagnostics Service	Microsoft Office Web Apps Diagnostics Service	Settings for the diagnostics service.
	Microsoft SQL Server Reporting Services Diagnostics Service	Microsoft SQL Server Reporting Services Diagnostics Service	Settings for the diagnostics service.
	Microsoft SharePoint Foundation Diagnostics Service	Microsoft SharePoint Foundation Diagnostics Service	Settings for the diagnostics service.
☐	⊟ Shared Services	Shared Services	Shared Services of the server farm.
☐	⊞ Shared Services Applications	Shared Services Applications	Shared Services Applications of the server farm.
☐	⊞ Shared Services Proxies	Shared Services Proxies	Shared Services Applications of the server farm.

Next Cancel


Application Registry Service
Microsoft Office Web Apps Diagnostics
Microsoft SQL Server Reporting Servic
Microsoft SharePoint Foundation Diagn
Shared Services
Shared Services Applications
Shared Services Proxies

Sandboxed Code Lo
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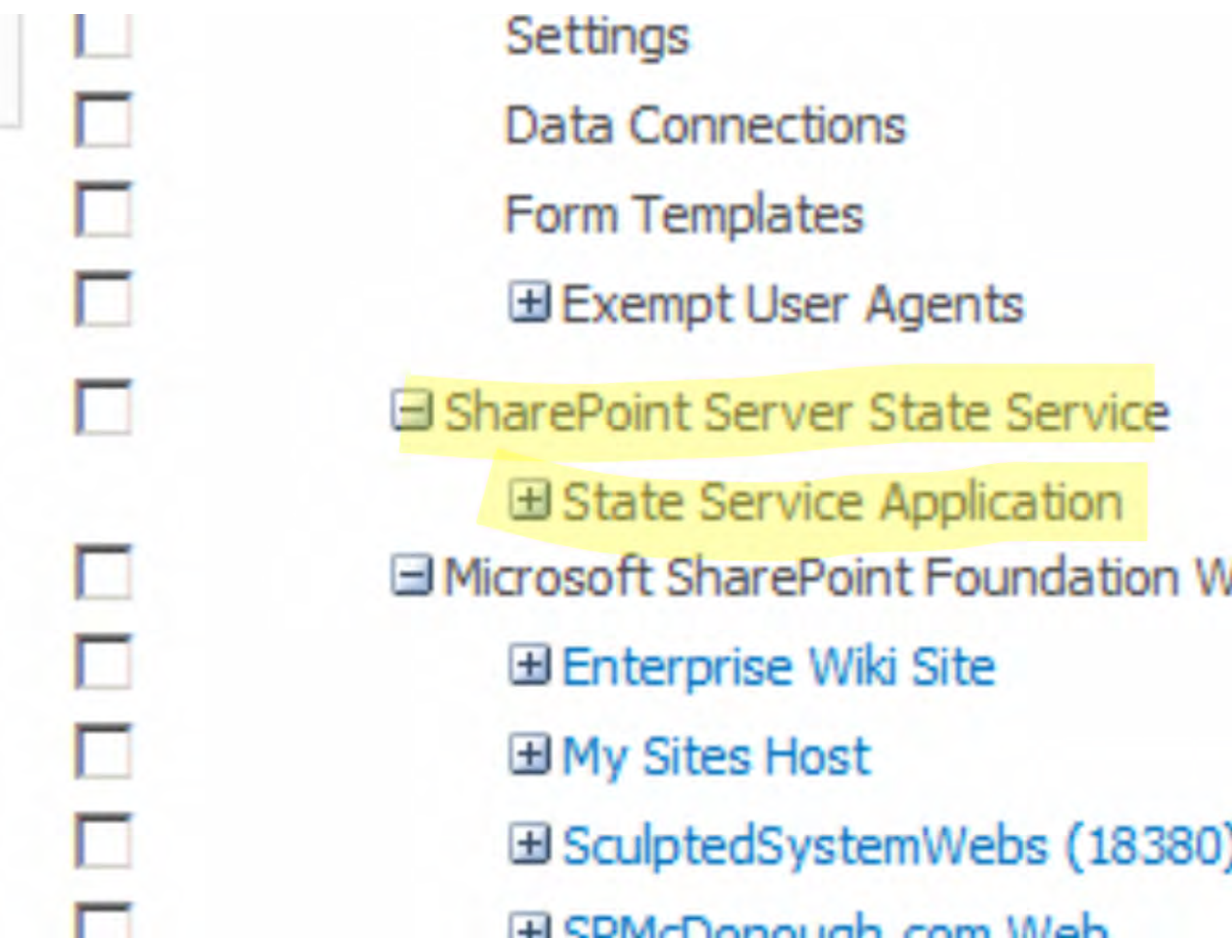
Settings
Data Connections
Form Templates
Exempt User Agents
SharePoint Server State Service
State Service Application
Microsoft SharePoint Foundation W
Enterprise Wiki Site
My Sites Host
SculptedSystemWebs (18380)

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Test, test, TEST!!!

Test, test, TEST!!!

Protecting them

- Farm backup (ideal)
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or

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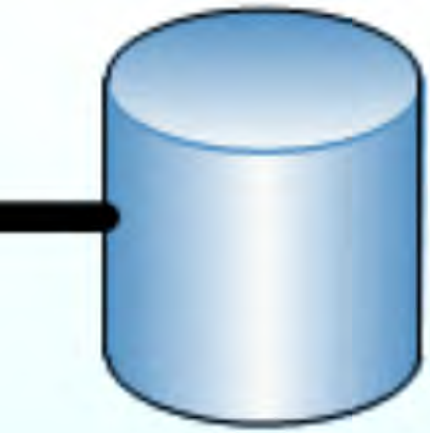
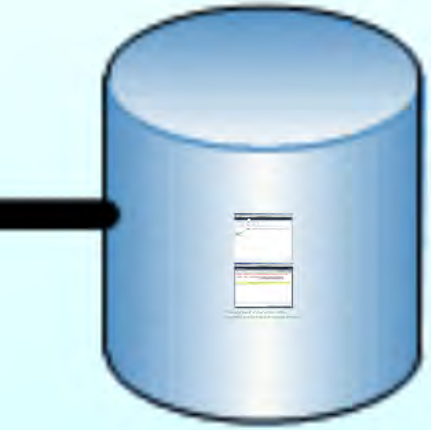
Test, test, TEST!!!

Watch out for omitted config items and required external data. For example …

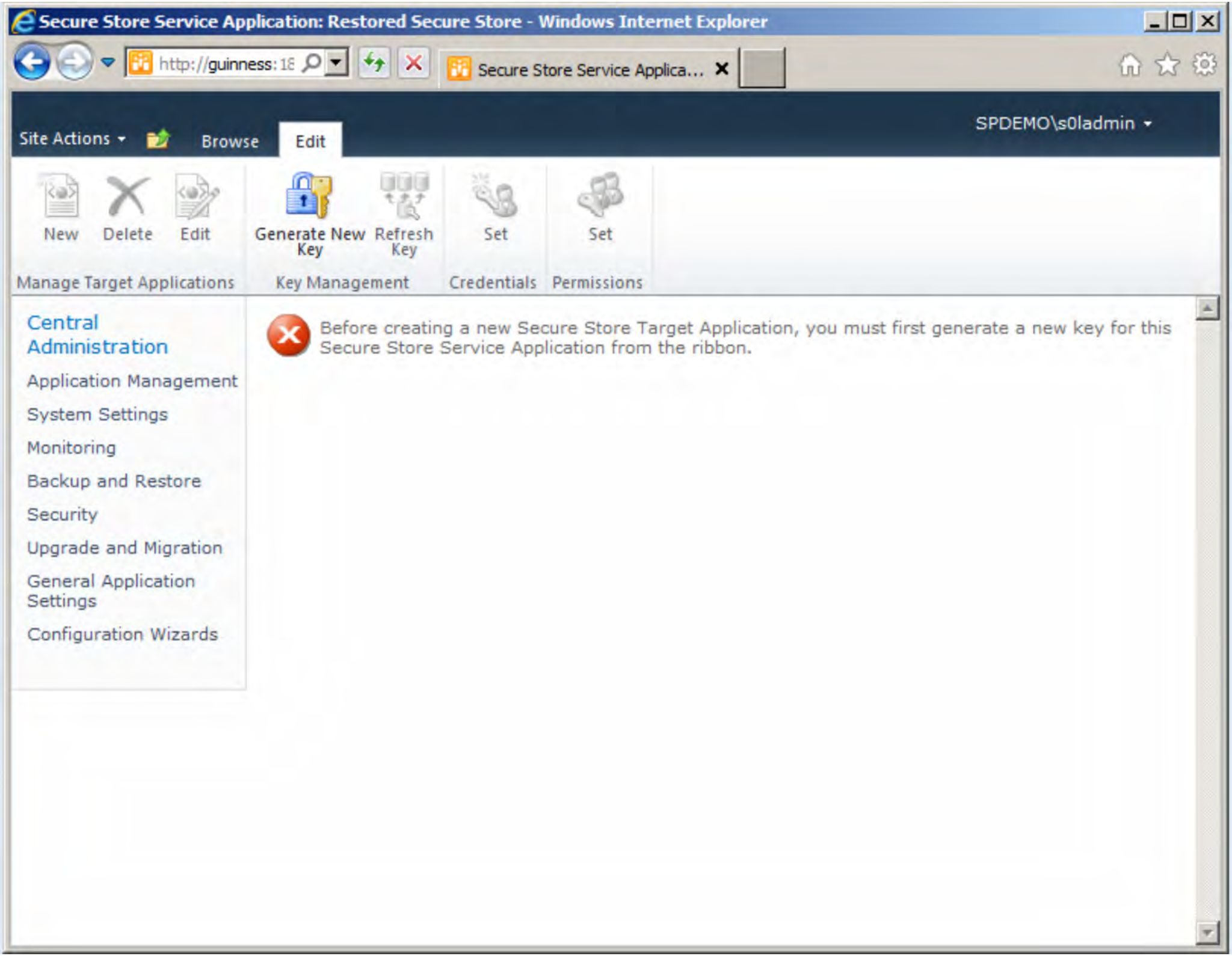


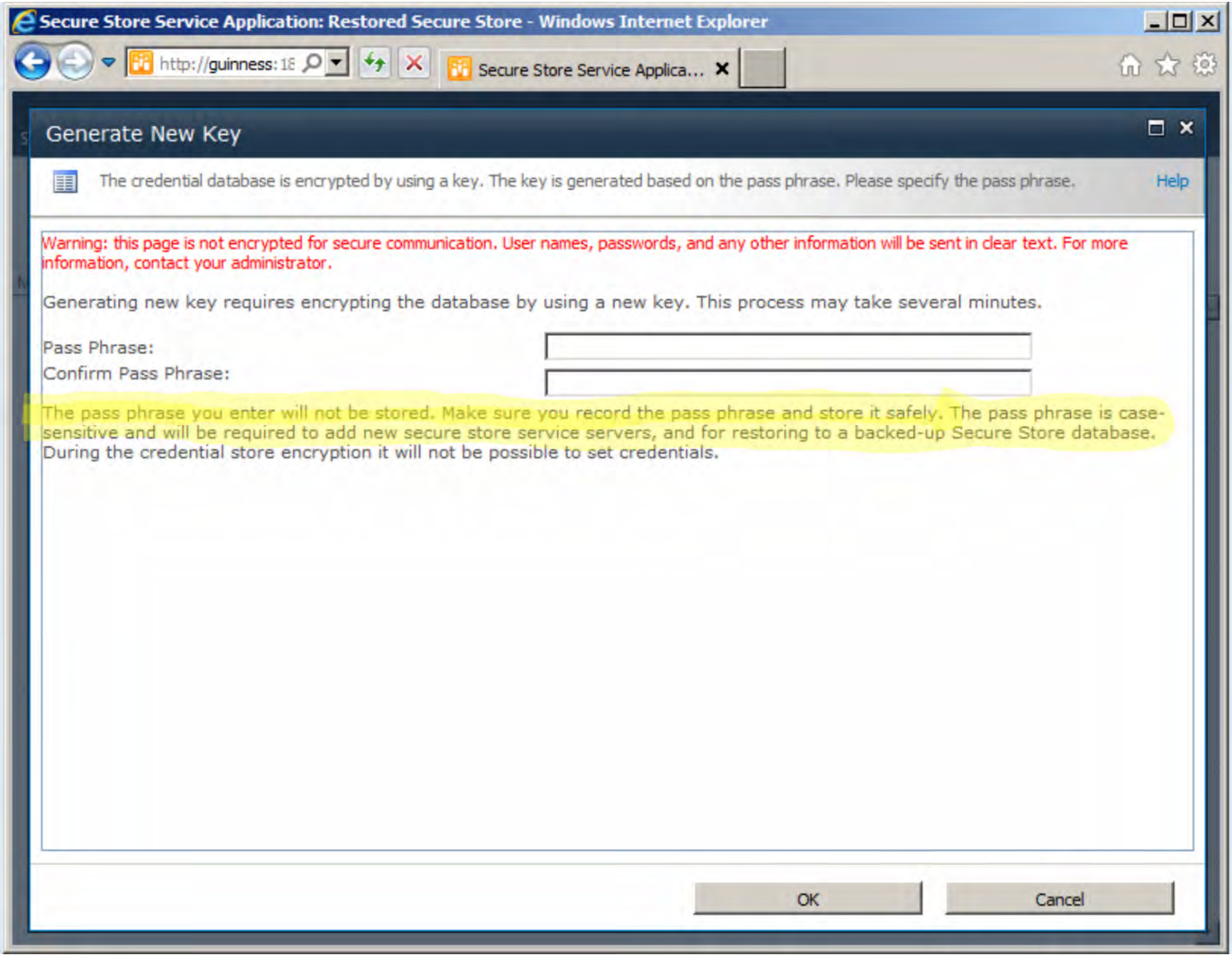
Managed Metadata

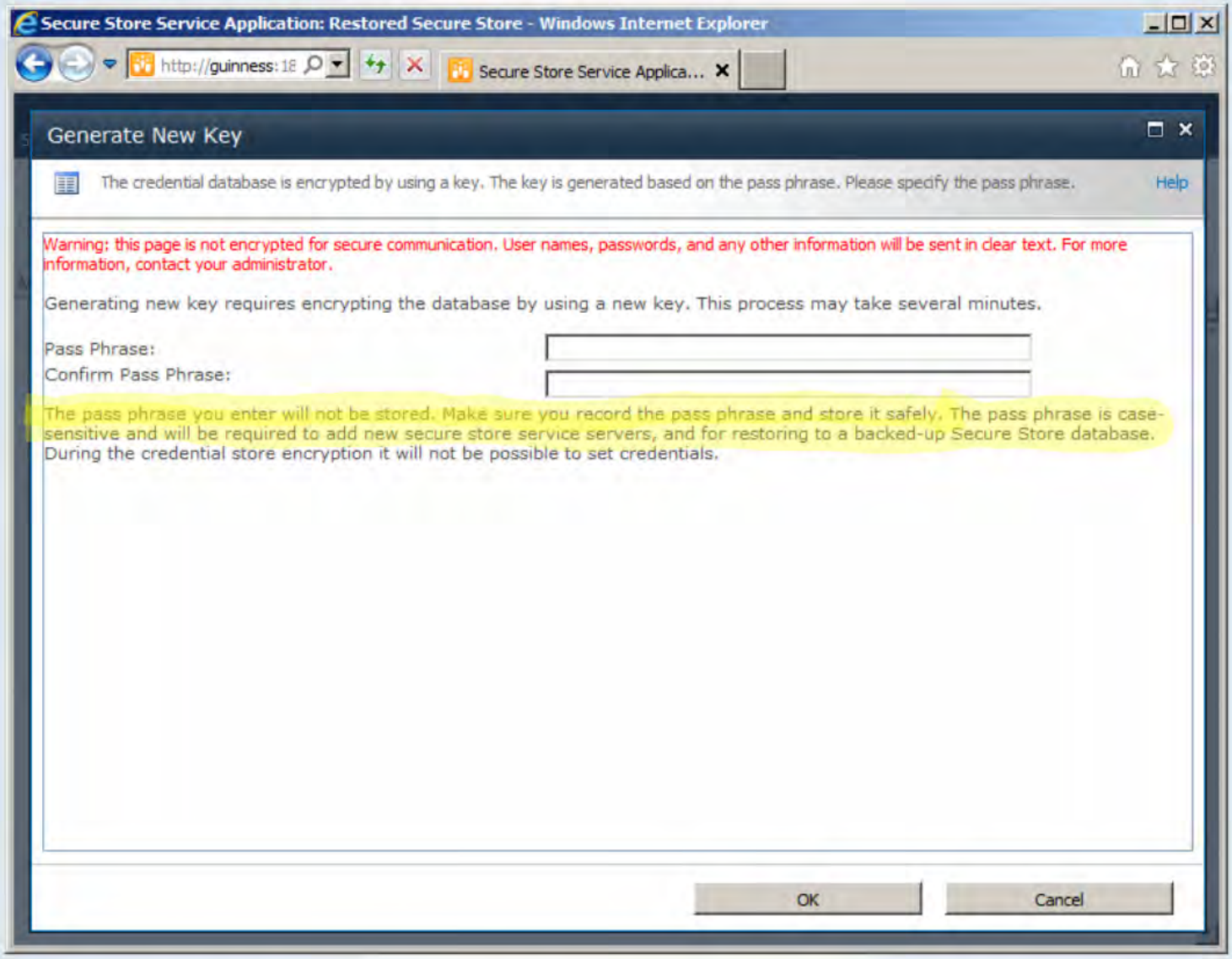


Secure_Store_Se

StateService_fd


Secure Store Service Application: Restored Secure Store - Windows Internet Explorer
http://guinness:18
Secure Store Service Applica...
Site Actions
Browse
Edit
SPDEMO\s0ladmin
New
Delete
Edit
Generate New Key
Refresh Key
Set
Set
Manage Target Applications
Key Management
Credentials
Permissions
Central Administration
Application Management
System Settings
Monitoring
Backup and Restore
Security
Upgrade and Migration
General Application Settings
Configuration Wizards
Before creating a new Secure Store Target Application, you must first generate a new key for this Secure Store Service Application from the ribbon.


Secure Store Service Application: Restored Secure Store - Windows Internet Explorer
http://guinness:18
Secure Store Service Applica...
Generate New Key
The credential database is encrypted by using a key. The key is generated based on the pass phrase. Please specify the pass phrase.
Help
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.
Generating new key requires encrypting the database by using a new key. This process may take several minutes.
Pass Phrase:
Confirm Pass Phrase:
The pass phrase you enter will not be stored. Make sure you record the pass phrase and store it safely. The pass phrase is case-sensitive and will be required to add new secure store service servers, and for restoring to a backed-up Secure Store database. During the credential store encryption it will not be possible to set credentials.
OK
Cancel



Documentation in some form will be required for any protection strategy selected.

Search

- Service application special case (2010)
- Part of an SSP instance (2007)

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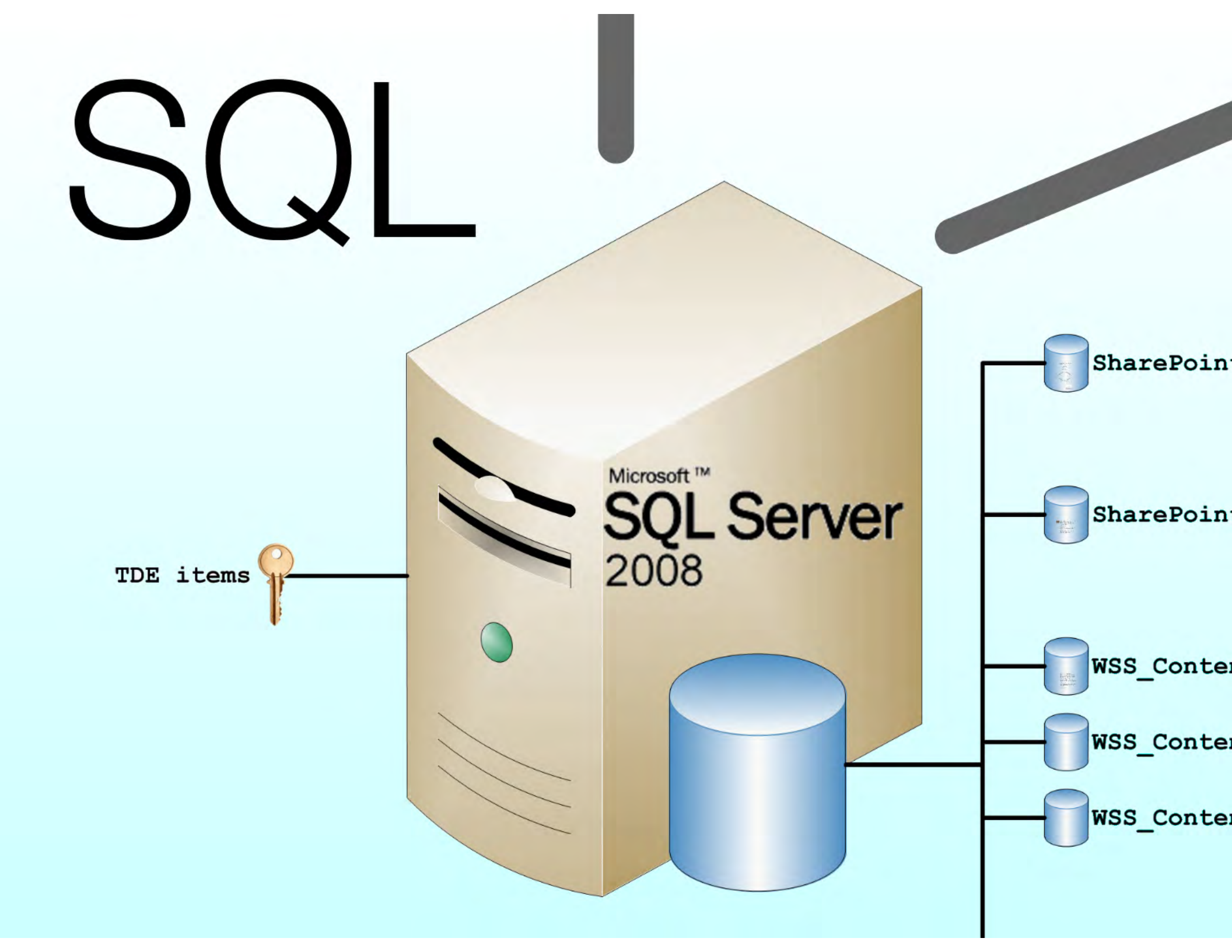
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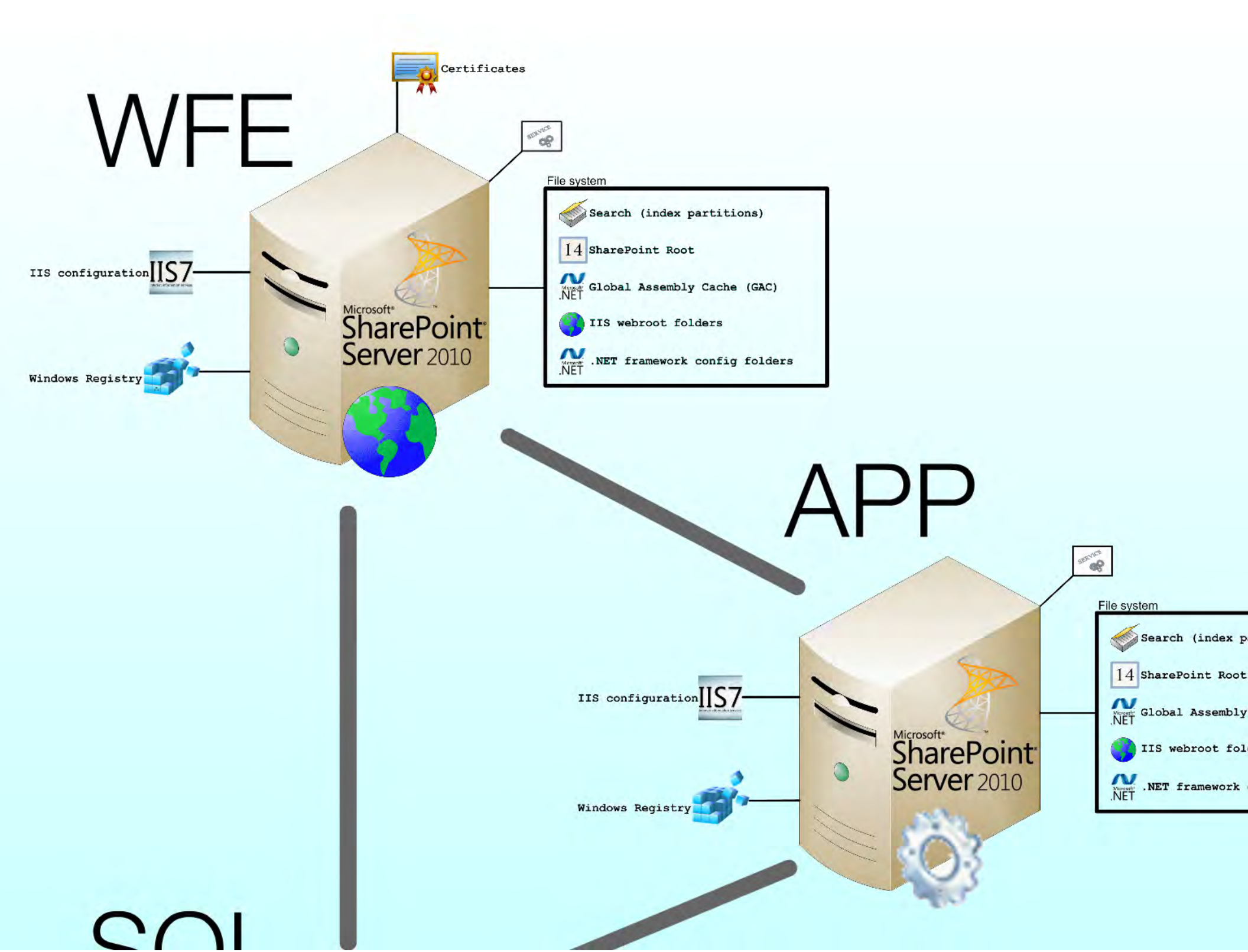
Search_Service_Application_CrawlStoreDB_a011b
Search_Service_Application_DB_d902b716e8e547e
Search_Service_Application_PropertyStoreDB_c1
Application_Registry_Service_DB_9b940f8fc5934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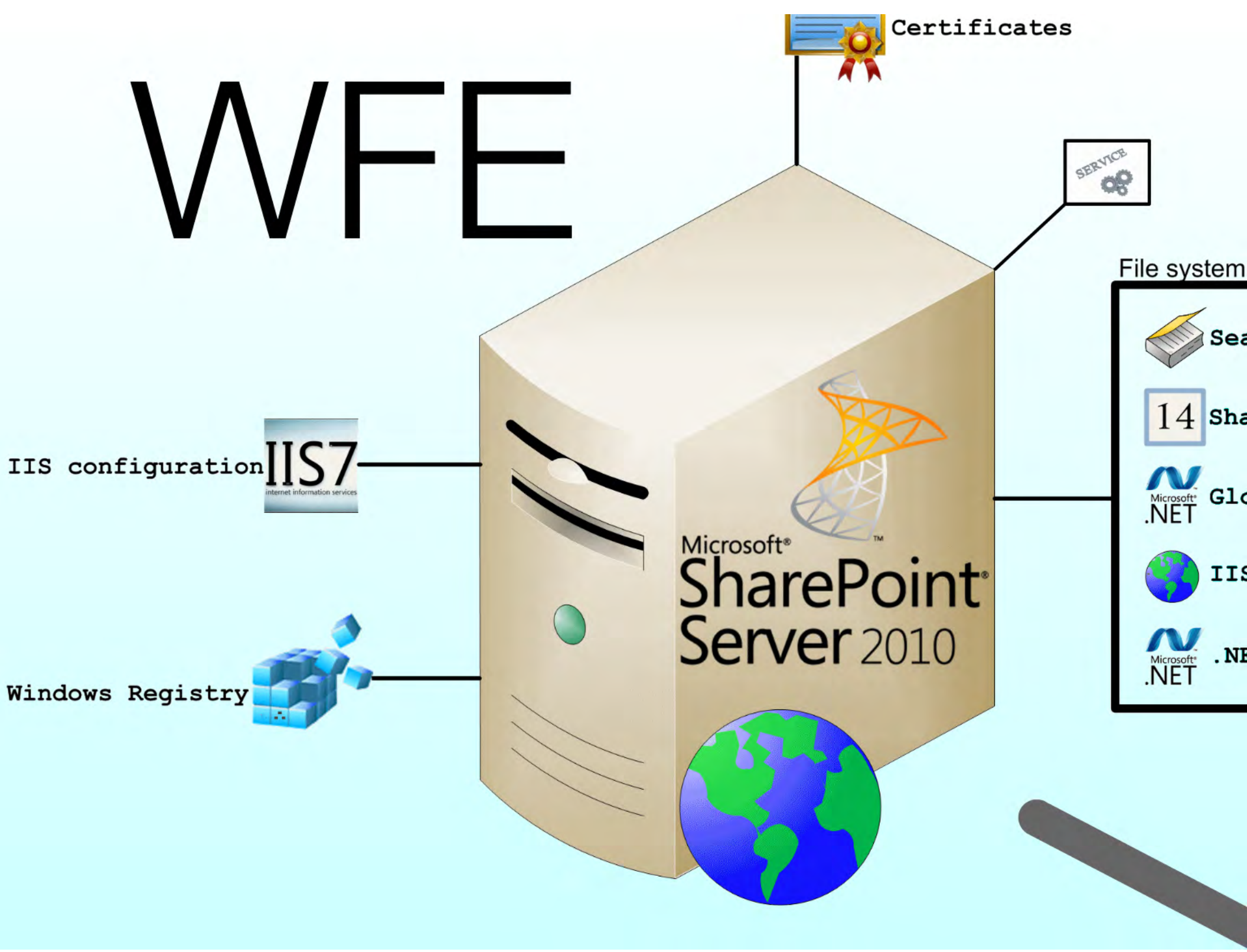
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File system

Search (index partitions)

SharePoint Root

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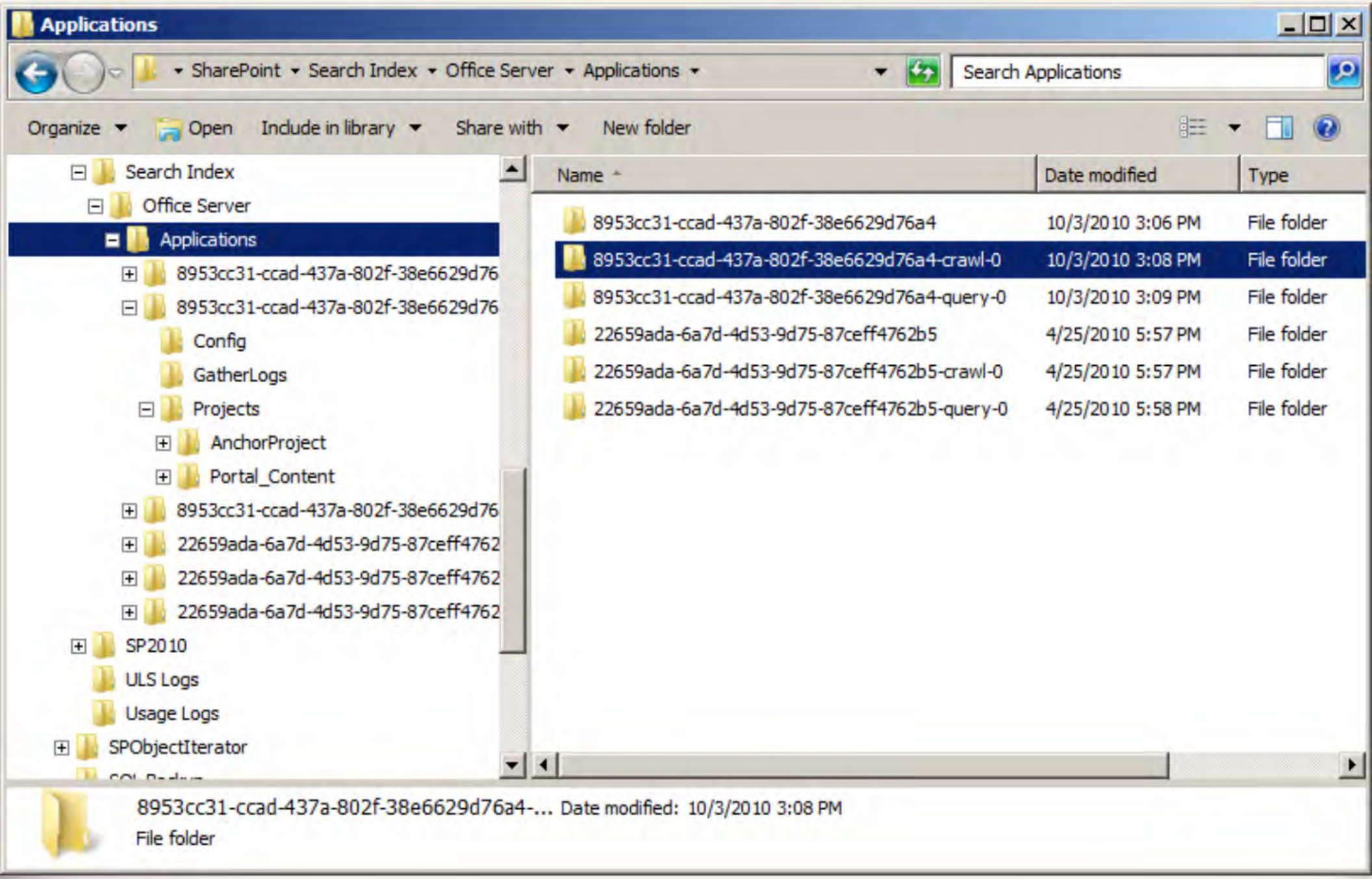
Applications
SharePoint ▸ Search Index ▸ Office Server ▸ Applications
Search Applications
Organize
Open
Include in library
Share with
New folder
Search Index
Office Server
Applications
8953cc31-ccad-437a-802f-38e6629d76
8953cc31-ccad-437a-802f-38e6629d76
Config
GatherLogs
Projects
AnchorProject
Portal_Content
8953cc31-ccad-437a-802f-38e6629d76
22659ada-6a7d-4d53-9d75-87ceff4762
22659ada-6a7d-4d53-9d75-87ceff4762
22659ada-6a7d-4d53-9d75-87ceff4762
SP2010
ULS Logs
Usage Logs
SPObjectIterator
Name
Date modified
Type
8953cc31-ccad-437a-802f-38e6629d76a4 10/3/2010 3:06 PM File folder
8953cc31-ccad-437a-802f-38e6629d76a4-crawl-0 10/3/2010 3:08 PM File folder
8953cc31-ccad-437a-802f-38e6629d76a4-query-0 10/3/2010 3:09 PM File folder
22659ada-6a7d-4d53-9d75-87ceff4762b5 4/25/2010 5:57 PM File folder
22659ada-6a7d-4d53-9d75-87ceff4762b5-crawl-0 4/25/2010 5:57 PM File folder
22659ada-6a7d-4d53-9d75-87ceff4762b5-query-0 4/25/2010 5:58 PM File folder
8953cc31-ccad-437a-802f-38e6629d76a4-... Date modified: 10/3/2010 3:08 PM
File folder

Search

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Protection

- Synchronization between index partitions and crawl database is critical
- SharePoint backups or a solution that engages the SharePoint VSS writer

Core SharePoint targets

aka, "the meat and potatoes"

- Content databases
- Central Admin content DB
- Farm Configuration database
- Service Applications / SSPs
- Search

Related targets

"important to remember"

- Solution packages
- SharePoint Root
- IIS Configuration
- Certificates
- IIS web root
- GAC
- Registry
- Bits and bytes

Solution packages

- .wsp files that are added to the farm to deploy custom code, Features, etc.

You are packaging your customizations this way ... right?

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If you answered "no," then pay attention …

"Centrally managed"
vs
"Decentralized"
customizations

Centrally managed	Decentralized
Assets and resources packaged into a single .wsp (cab) file	Assets and resources are loose or packaged in another form (e.g., MSI)
SharePoint stores customization files in farm solution store (in farm config DB) and knows "what" goes "where"	SharePoint is unaware of the files that constitute the customization and does not track them in any way
SharePoint manages deployment and retraction of customization files where needed across farm	Administrator is entirely responsible for ensuring file and configuration changes happen (usually manually)
During a restore or new farm member addition, SharePoint works its magic to get assets and resources deployed	Restores and new farm member additions mean more manual administrator intervention

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Tracking related backup targets is dramatically easier when centrally managed solutions are used.

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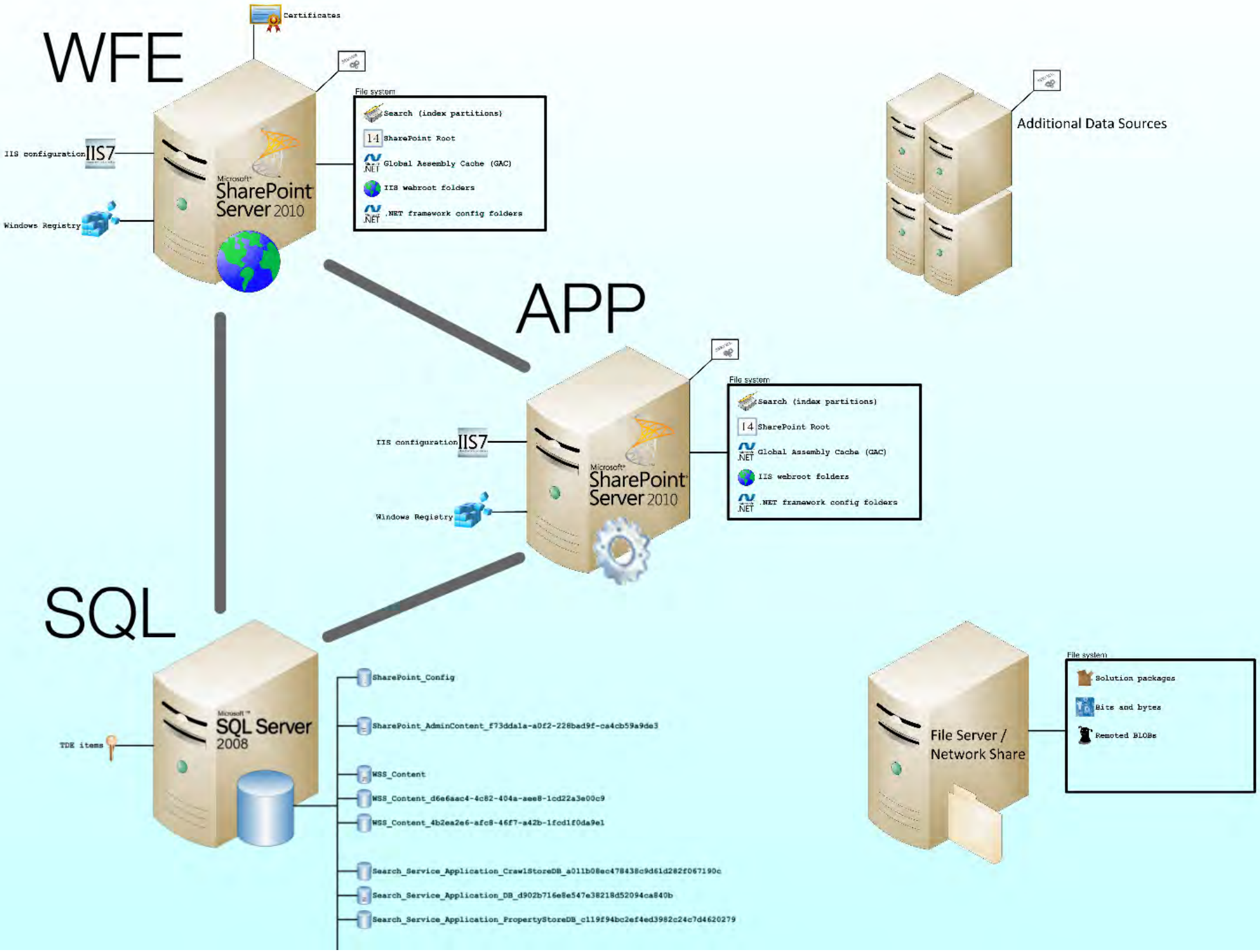
Where are they?

- Ultimately depends on your processes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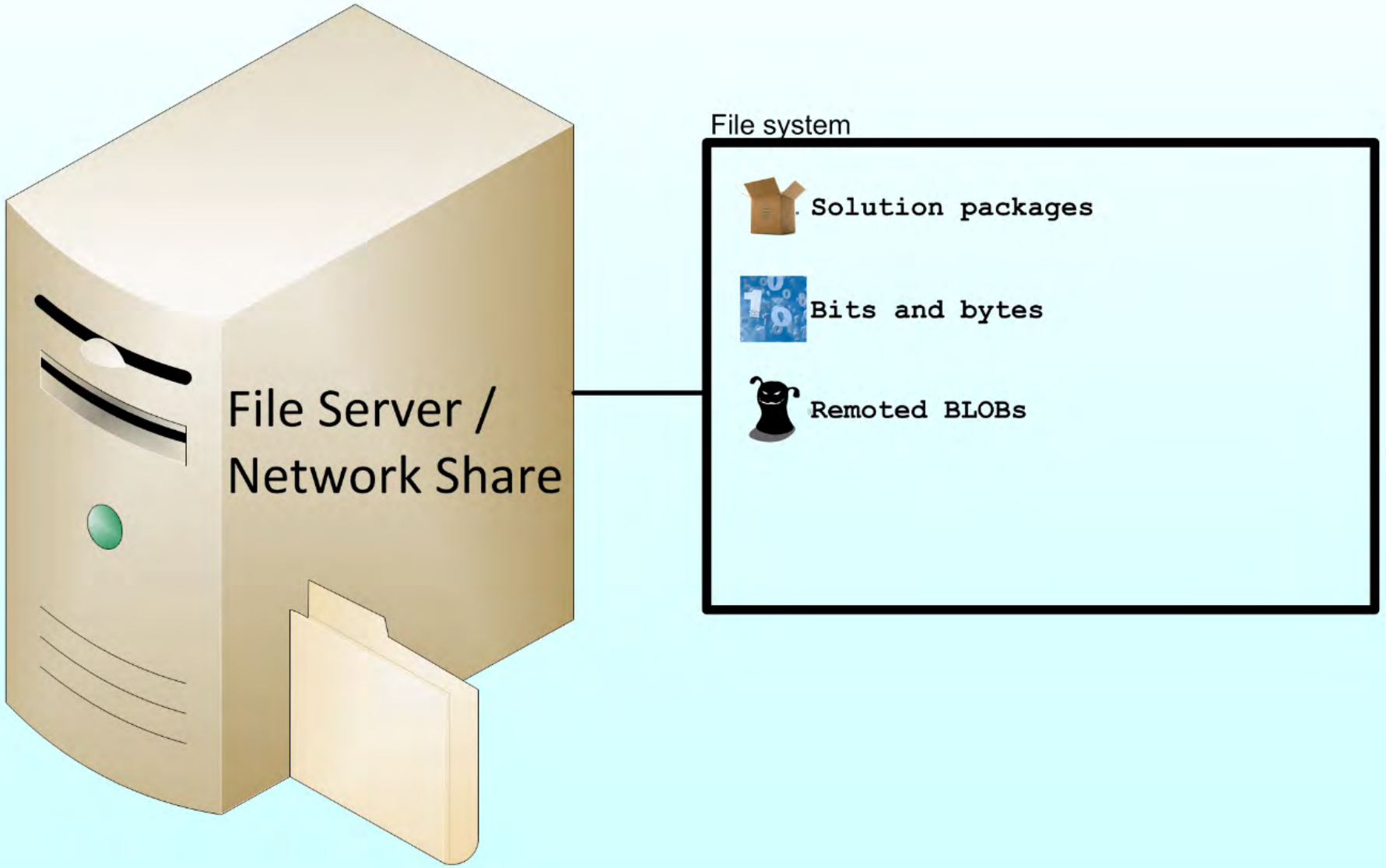
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Protection

- For centrally managed solution packages, basic file protection/backup is common
- Configuration-only backup with SP2010

SharePoint Root

- The guts of SharePoint's core file system
- Also known as the 12-hive (for 2007)

SharePoint Root

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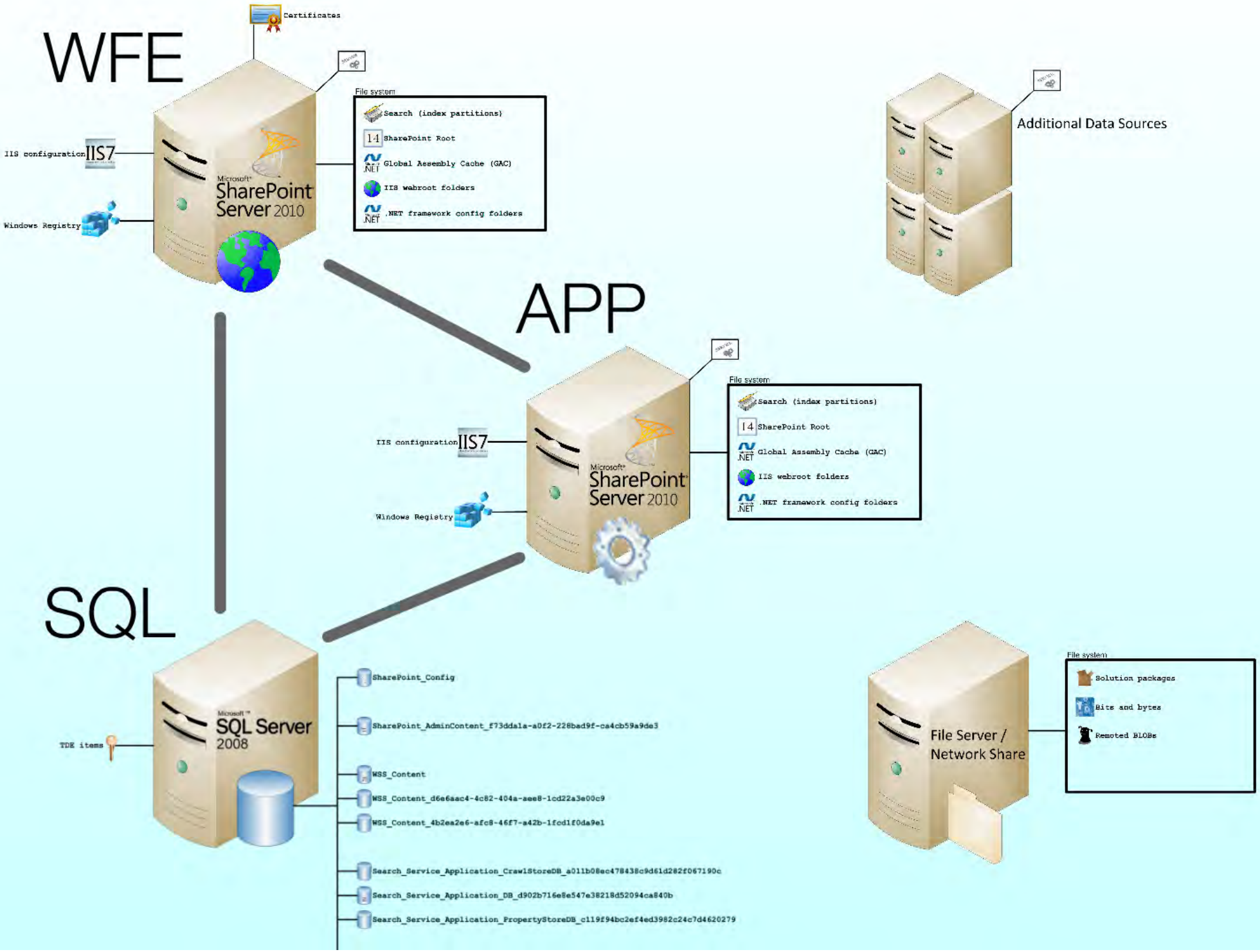
Where is it?

- C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14 (or \12)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SharePoint_Config
SharePoint_AdminContent_f73ddala-a0f2-228bad9f-ca4cb59a9de3
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WSS_Content_d6e6aac4-4c82-404a-aee8-1cd22a3e00c9
WSS_Content_4b2ea2e6-afc8-46f7-a42b-1fcd1f0da9e1
Search_Service_Application_CrawlStoreDB_a011b08ec478438c9d61d282f067190c
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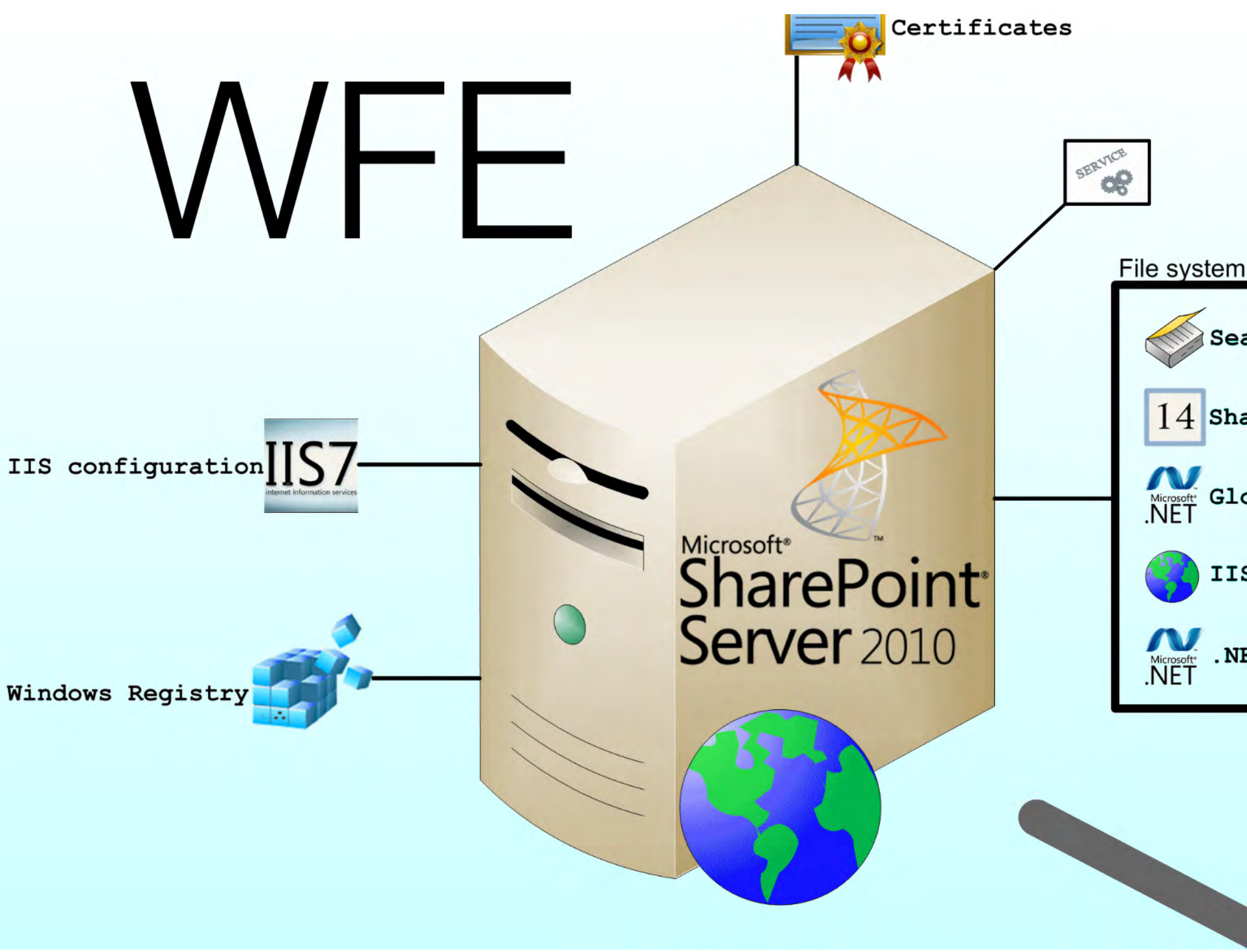
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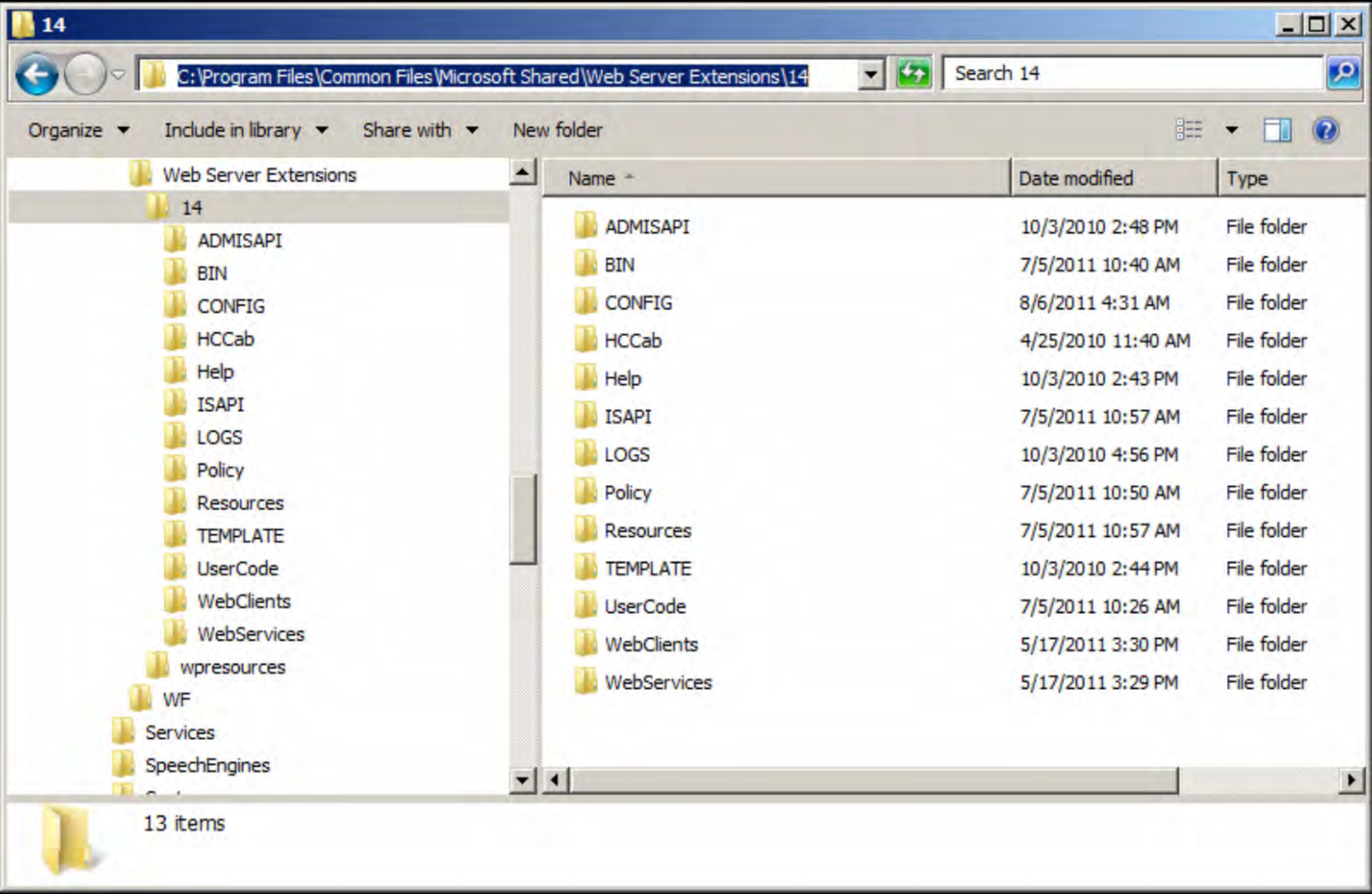
.NET
Microsoft®
.NET

File system

Search (index pa

14 SharePoint Root

Microsoft® Global Assembly


14
C:\Program Files\Common Files\Microsoft Shared\Web Server Extensions\14
Search 14
Organize
Include in library
Share with
New folder
Web Server Extensions
14
ADMISAPI
BIN
CONFIG
HCCab
Help
ISAPI
LOGS
Policy
Resources
TEMPLATE
UserCode
WebClients
WebServices
wpresources
WF
Services
SpeechEngines
Name
Date modified
Type
ADMISAPI 10/3/2010 2:48 PM File folder
BIN 7/5/2011 10:40 AM File folder
CONFIG 8/6/2011 4:31 AM File folder
HCCab 4/25/2010 11:40 AM File folder
Help 10/3/2010 2:43 PM File folder
ISAPI 7/5/2011 10:57 AM File folder
LOGS 10/3/2010 4:56 PM File folder
Policy 7/5/2011 10:50 AM File folder
Resources 7/5/2011 10:57 AM File folder
TEMPLATE 10/3/2010 2:44 PM File folder
UserCode 7/5/2011 10:26 AM File folder
WebClients 5/17/2011 3:30 PM File folder
WebServices 5/17/2011 3:29 PM File folder
13 items

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Where is it?

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Worth protecting?

- Depends on customization usage and deployment patterns
- "Yes" for decentralized customizations

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Worth protecting?

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Protection

- File system backup

IIS Configuration

- Settings used to serve web pages by IIS
- Covers app pools, ports, protocols, etc.

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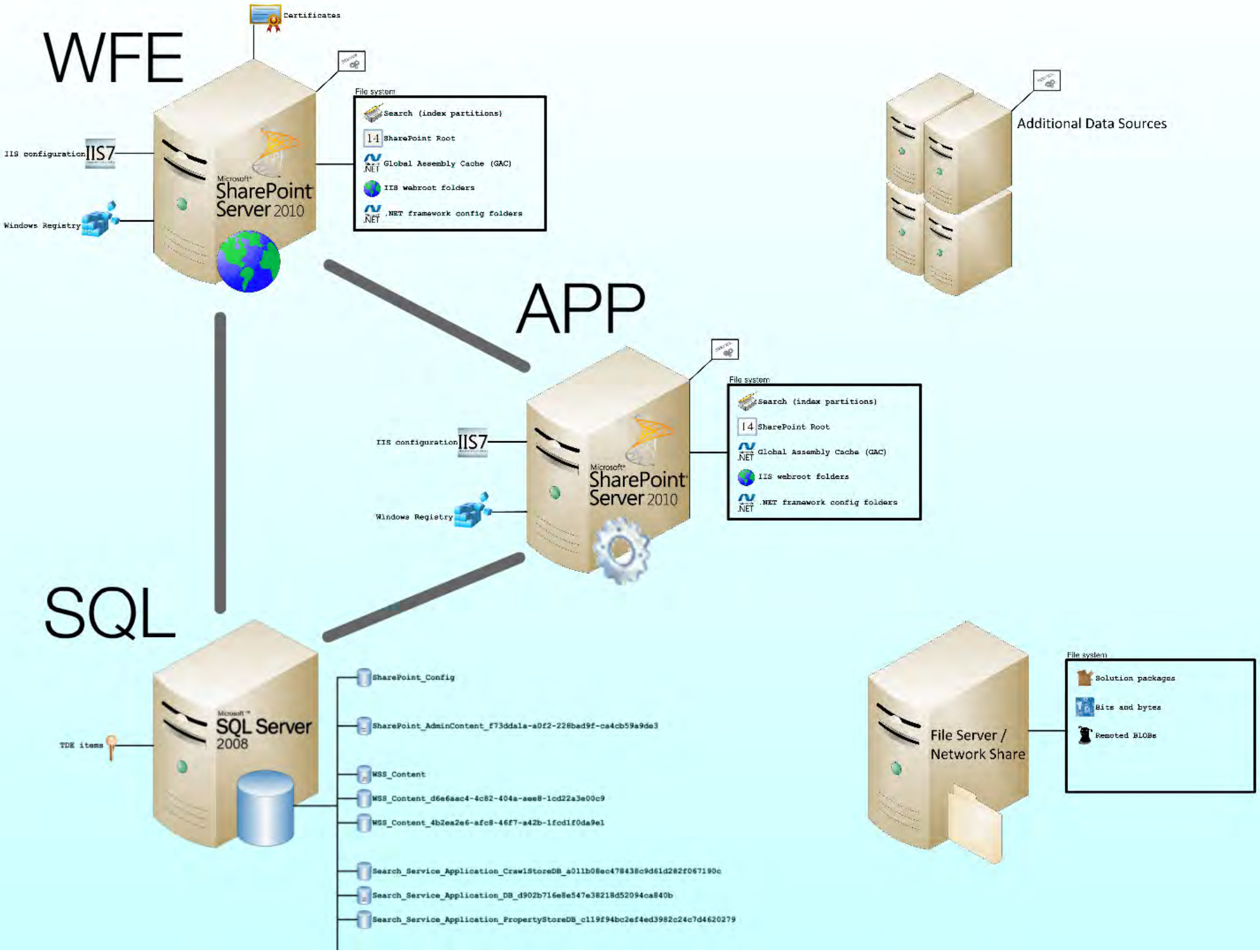
- Settings used to serve web pages by IIS
- Covers app pools, ports, protocols, etc.

Where is it?

- C:\Windows\system32\inetsrv by default (IIS6 Metabase and IIS7.x config files)


WFE
Certificates
File system
Search (index partitions)
14 SharePoint Root
Global Assembly Cache (GAC)
IIS webroot folders
.NET framework config folders
IIS configuration
IIS7
Windows Registry
Microsoft SharePoint Server 2010
Additional Data Sources
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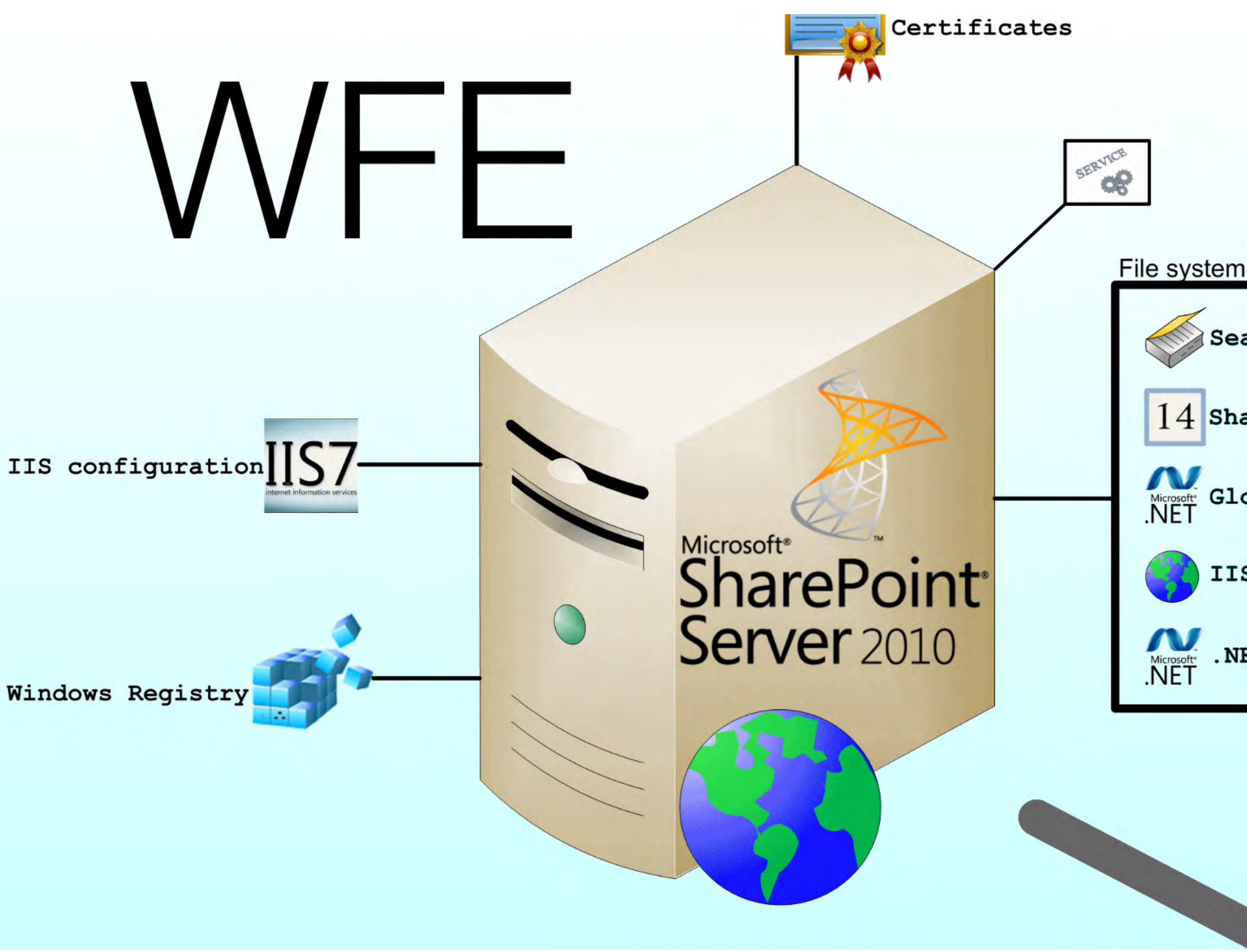
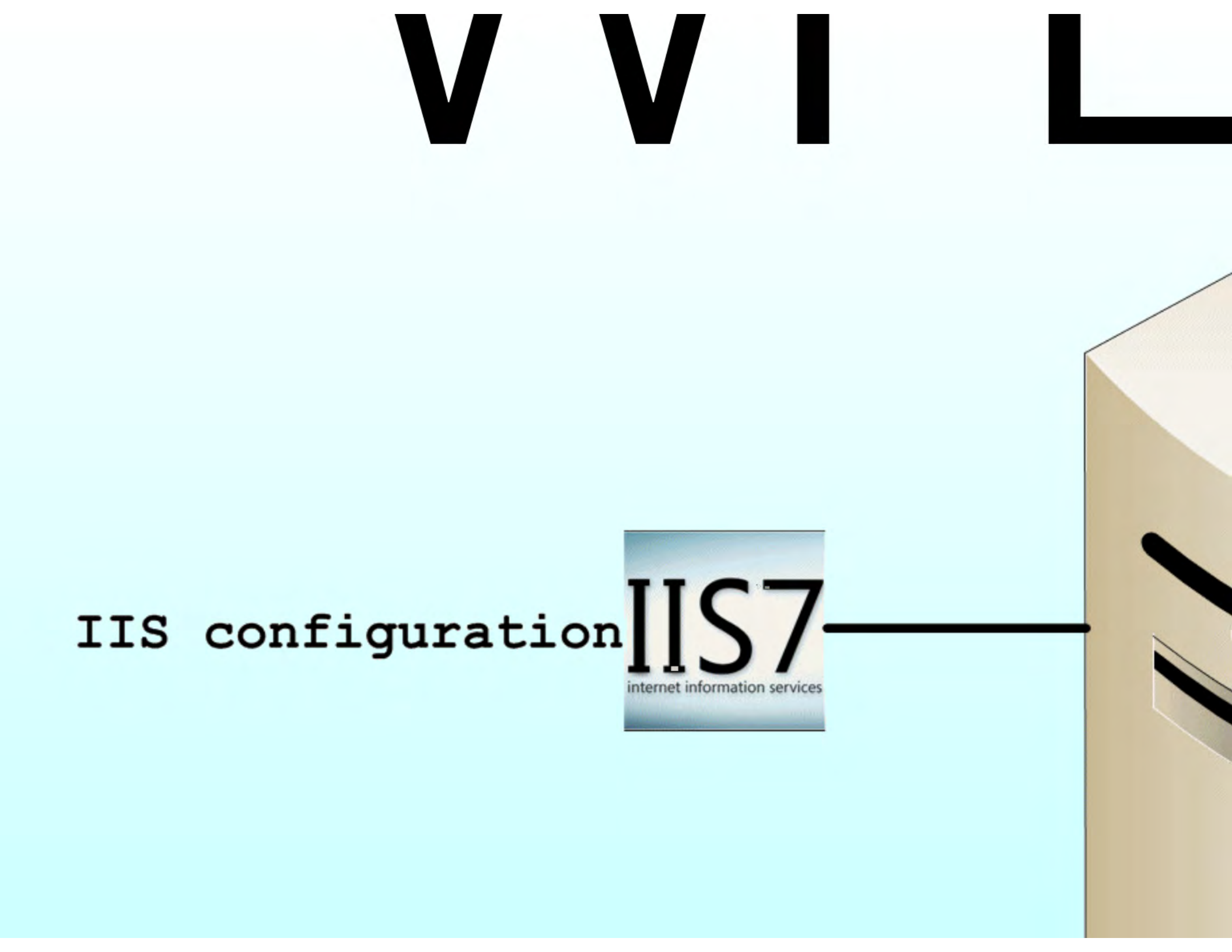
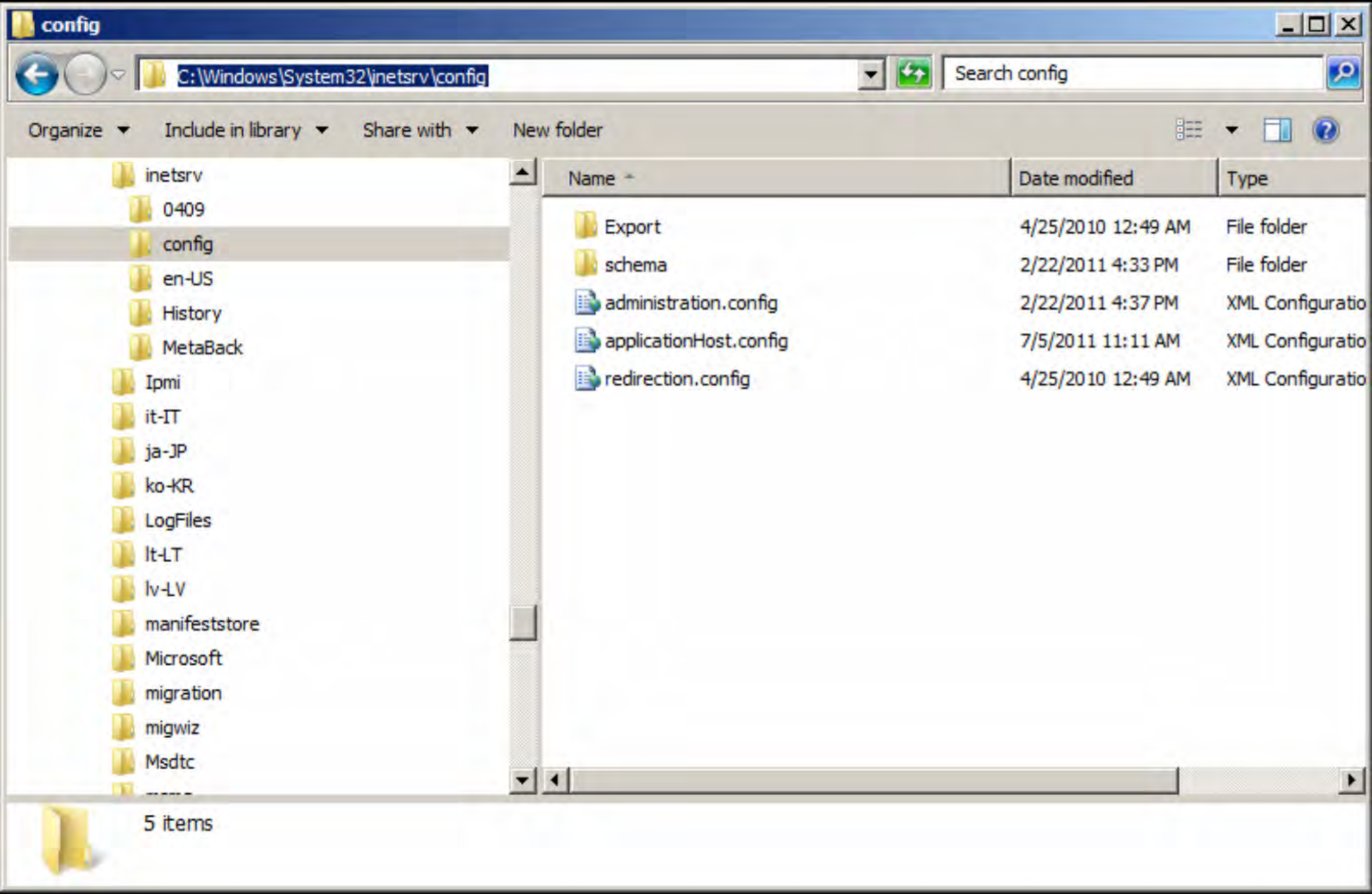
Microsoft SharePoint Server 2010
SQL
TDE items
Microsoft SQL Server 2008
SharePoint_Config
SharePoint_AdminContent_f73ddala-a0f2-228bad9f-ca4cb59a9de3
WSS_Content
WSS_Content_d6e6aac4-4c82-404a-aee8-1cd22a3e00c9
WSS_Content_4b2ea2e6-afc8-46f7-a42b-1fcd1f0da9e1
Search_Service_Application_CrawlStoreDB_a011b08ec478438c9d61d282f067190c
Search_Service_Application_DB_d902b716e8e547e38218d52094ca840b
Search_Service_Application_PropertyStoreDB_c119f94bc2ef4ed3982c24c7d4620279
File Server / Network Share
File system
Solution packages
Bits and bytes
Remoted BLOBs


WFE
Certificates
SERVICE
File system
IIS configuration
IIS7
internet information services
Windows Registry
Microsoft®
SharePoint®
Server 2010
14
Microsoft®
.NET
Microsoft®
.NET

V V I L

IIS configuration




config
C:\Windows\System32\inetsrv\config
Search config
Organize
Include in library
Share with
New folder
inetsrv
0409
config
en-US
History
MetaBack
Ipmi
it-IT
ja-JP
ko-KR
LogFiles
lt-LT
lv-LV
manifeststore
Microsoft
migration
migwiz
Msdtc
Name
Date modified
Type
Export
4/25/2010 12:49 AM
File folder
schema
2/22/2011 4:33 PM
File folder
administration.config
2/22/2011 4:37 PM
XML Configuratio
applicationHost.config
7/5/2011 11:11 AM
XML Configuratio
redirection.config
4/25/2010 12:49 AM
XML Configuratio
5 items

IIS Configuration

- Settings used to serve web pages by IIS
- Covers app pools, ports, protocols, etc.

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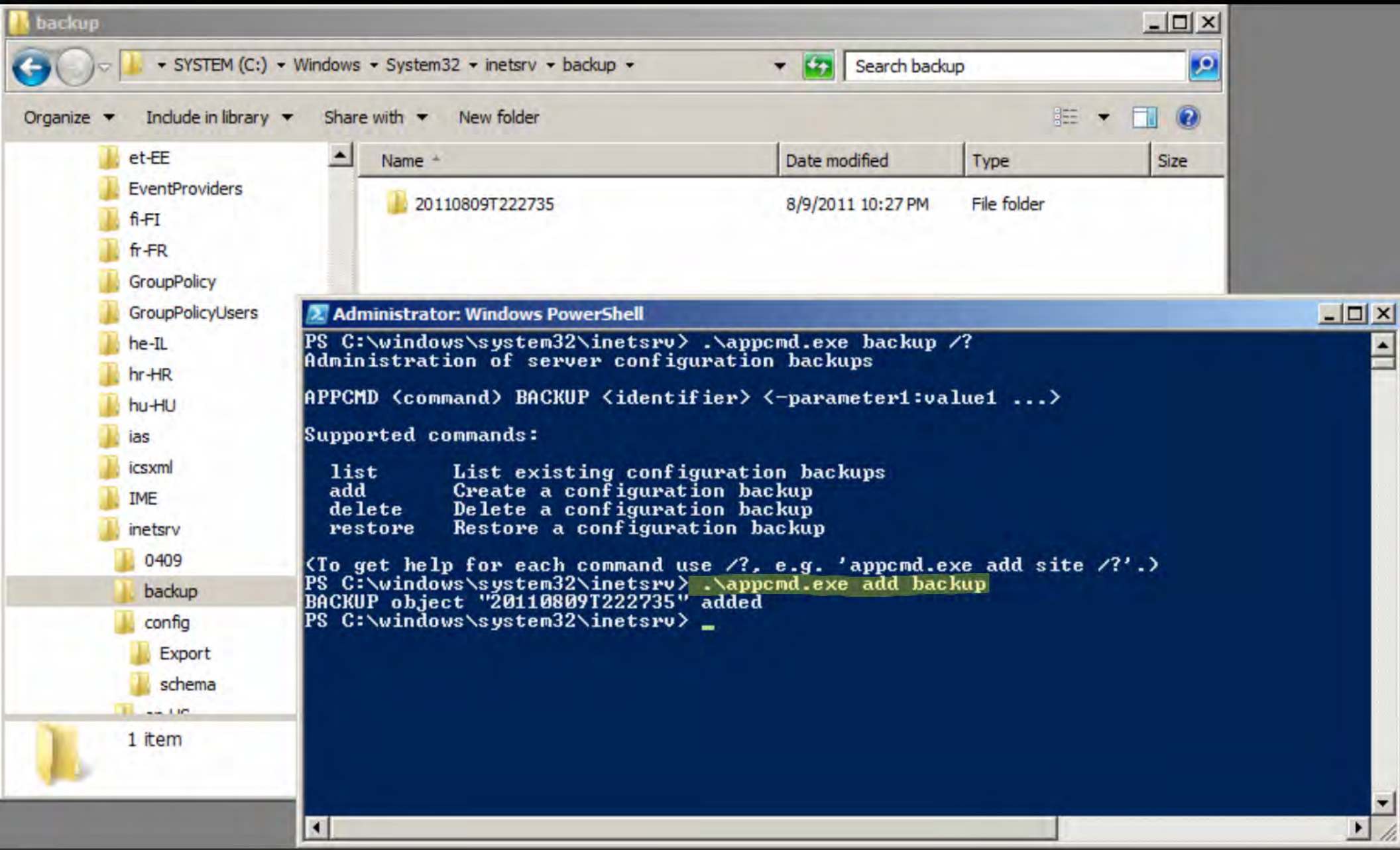
- File copy*, appcmd.exe*, documentation


backup
SYSTEM (C:) ▸ Windows ▸ System32 ▸ inetsrv ▸ backup
Search backup
Organize
Include in library
Share with
New folder
et-EE
EventProviders
fi-FI
fr-FR
GroupPolicy
GroupPolicyUsers
he-IL
hr-HR
hu-HU
ias
icsxml
IME
inetsrv
0409
backup
config
Export
schema
1 item
Name
Date modified
Type
Size
20110809T222735
8/9/2011 10:27 PM
File folder
Administrator: Windows PowerShell
PS C:\windows\system32\inetsrv> .\appcmd.exe backup /?
Administration of server configuration backups
APPCMD <command> BACKUP <identifier> <-parameter1:value1 ...>
Supported commands:
list List existing configuration backups
add Create a configuration backup
delete Delete a configuration backup
restore Restore a configuration backup
(To get help for each command use /?, e.g. 'appcmd.exe add site /?'.)
PS C:\windows\system32\inetsrv> .\appcmd.exe add backup
BACKUP object "20110809T222735" added
PS C:\windows\system32\inetsrv> _

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Where are they

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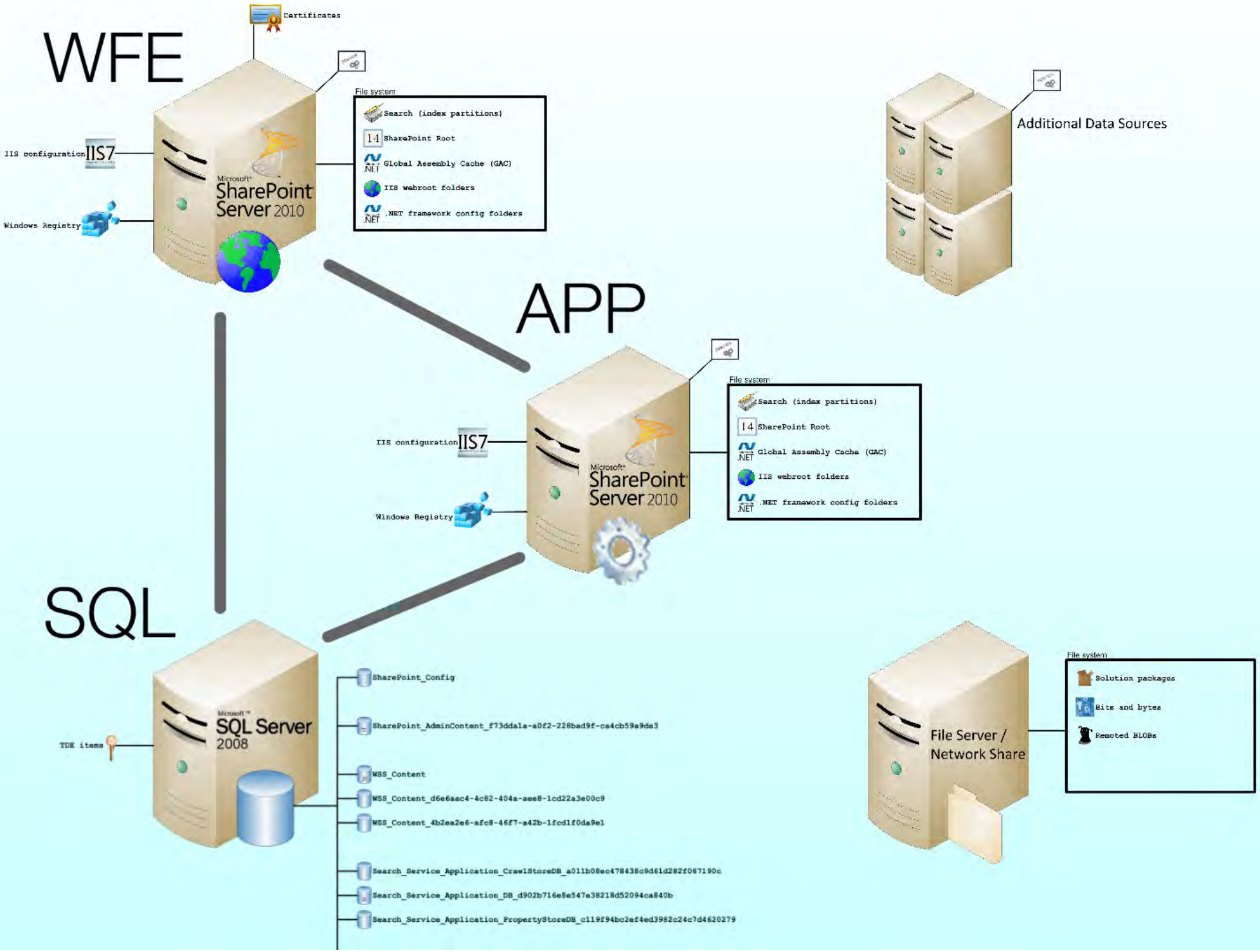
- Accessible via MMC or IIS Manager


WFE
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File system
Search (index partitions)
14 SharePoint Root
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SQL
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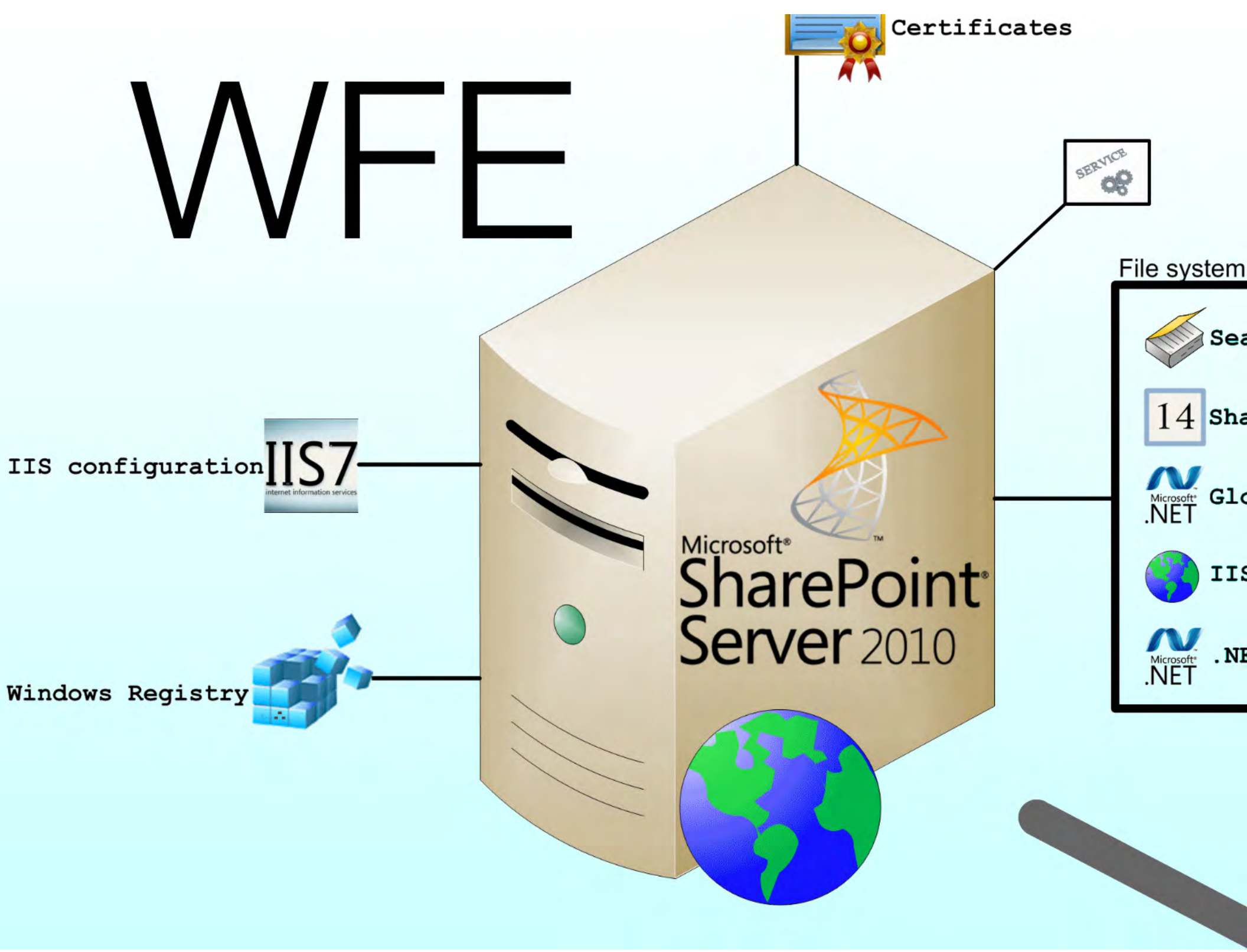
SharePoint_AdminContent_f73ddala-a0f2-228bad9f-ca4cb59a9de3
WSS_Content
WSS_Content_d6e6aac4-4c82-404a-aee8-1cd22a3e00c9
WSS_Content_4b2ea2e6-afc8-46f7-a42b-1fcd1f0da9e1
Search_Service_Application_CrawlStoreDB_a011b08ec478438c9d61d282f067190c
Search_Service_Application_DB_d902b716e8e547e38218d52094ca840b
Search_Service_Application_PropertyStoreDB_c119f94bc2ef4ed3982c24c7d4620279
File Server / Network Share
File system
Solution packages
Bits and bytes
Remoted BLOBs


WFE
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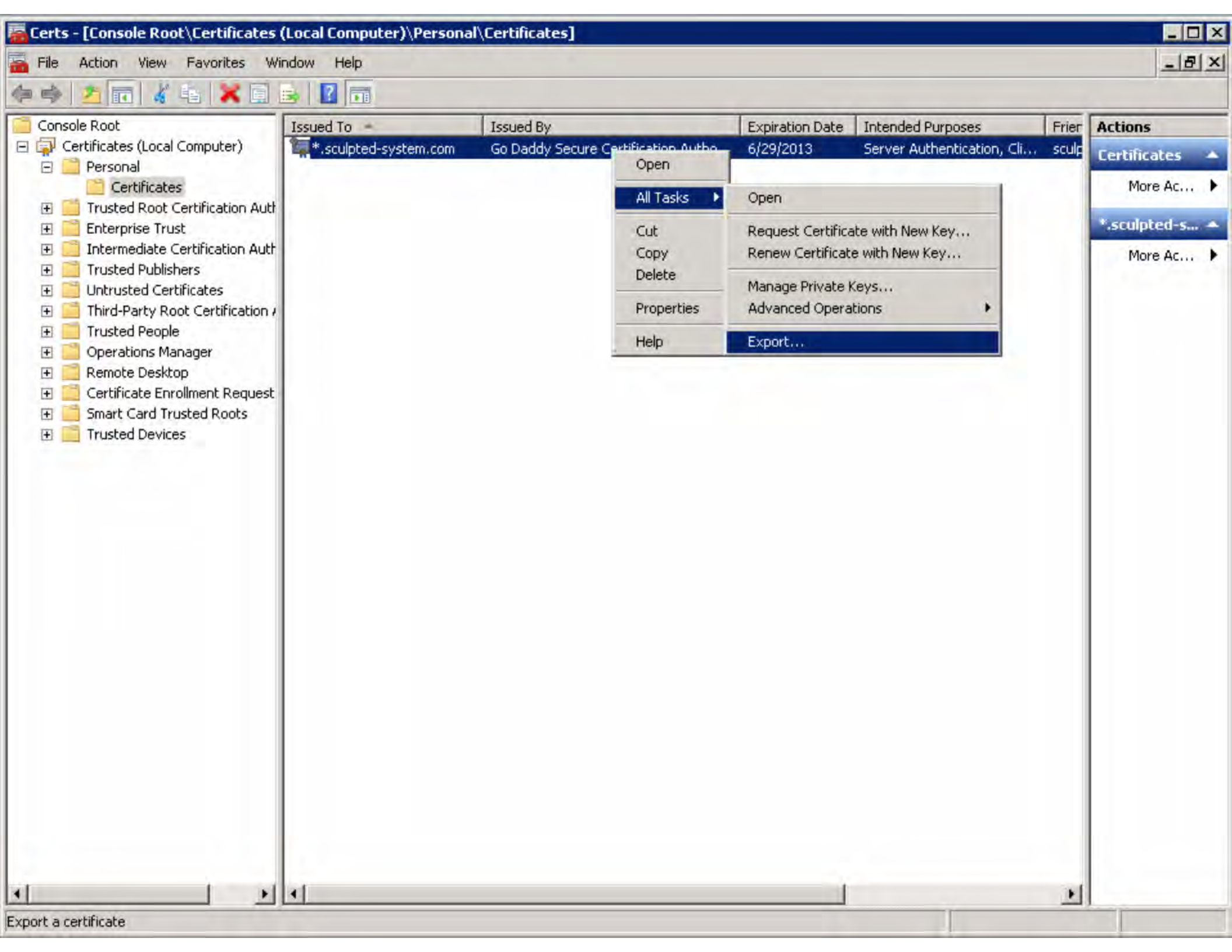
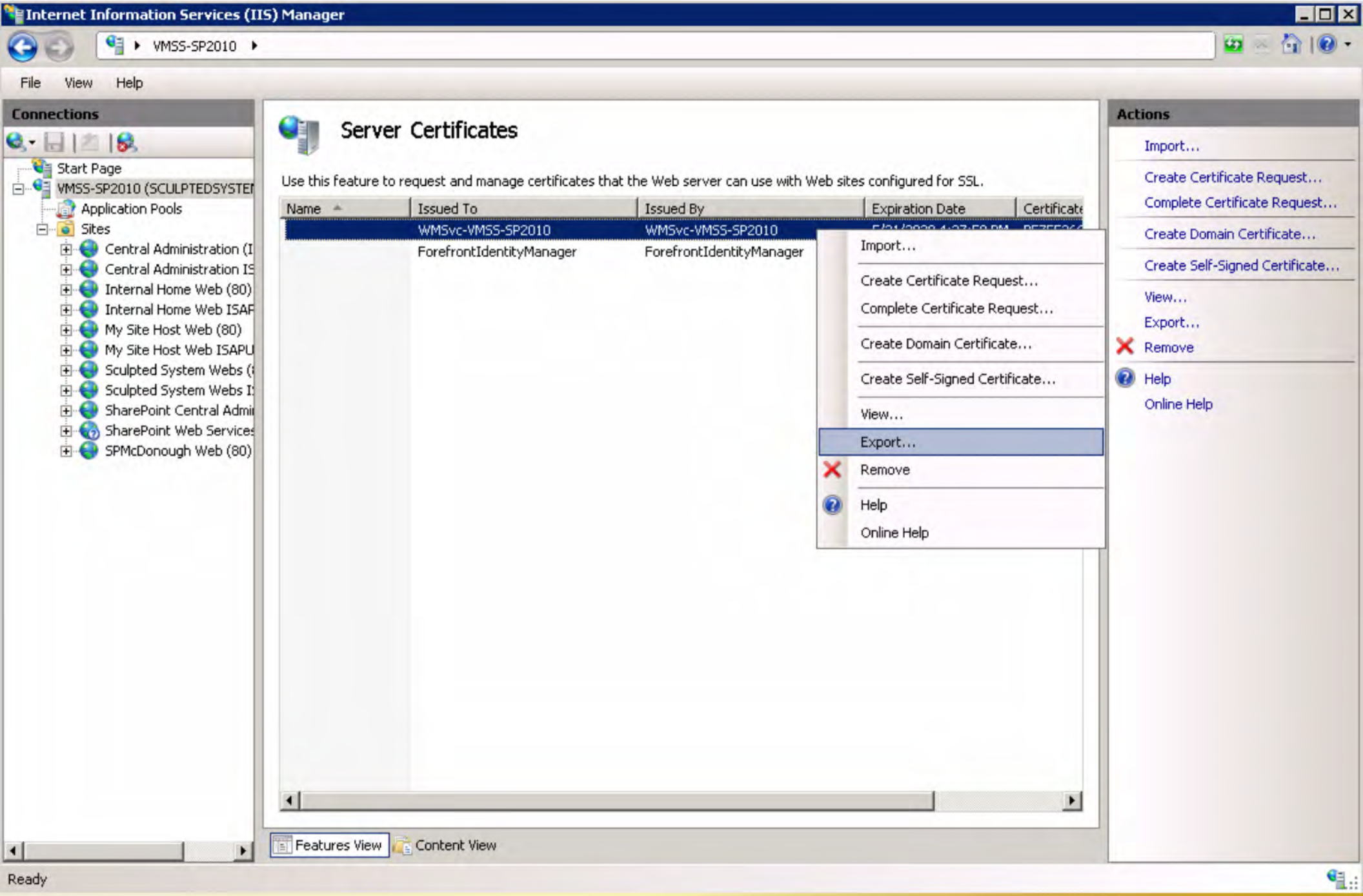
Microsoft®
SharePoint®
Server 2010
14
Microsoft®
.NET
Microsoft®
.NET

Certificates


Certs - [Console Root\Certificates (Local Computer)\Personal\Certificates]
File Action View Favorites Window Help
Console Root
Certificates (Local Computer)
Personal
Certificates
Trusted Root Certification Auth
Enterprise Trust
Intermediate Certification Auth
Trusted Publishers
Untrusted Certificates
Third-Party Root Certification A
Trusted People
Operations Manager
Remote Desktop
Certificate Enrollment Request
Smart Card Trusted Roots
Trusted Devices
Issued To
Issued By
Expiration Date
Intended Purposes
Frien
*.sculpted-system.com
Go Daddy Secure Certification Autho
6/29/2013
Server Authentication, Cli...
sculp
Open
All Tasks
Cut
Copy
Delete
Properties
Help
Open
Request Certificate with New Key...
Renew Certificate with New Key...
Manage Private Keys...
Advanced Operations
Export...
Actions
Certificates
More Ac...
*.sculpted-s...
More Ac...
Export a certificate


Internet Information Services (IIS) Manager
VMSS-SP2010
File
View
Help
Connections
Start Page
VMSS-SP2010 (SCULPTEDSYSTEM
Application Pools
Sites
Central Administration (I
Central Administration IS
Internet Home Web (80)
Internet Home Web ISAP
My Site Host Web (80)
My Site Host Web ISAPU
Sculpted System Webs (
Sculpted System Webs I
SharePoint Central Admi
SharePoint Web Services
SPMcDonough Web (80)
Server Certificates
Use this feature to request and manage certificates that the Web server can use with Web sites configured for SSL.
Name
Issued To
Issued By
Expiration Date
Certificate
WMSvc-VMSS-SP2010
WMSvc-VMSS-SP2010
ForefrontIdentityManager
ForefrontIdentityManager
Import...
Create Certificate Request...
Complete Certificate Request...
Create Domain Certificate...
Create Self-Signed Certificate...
View...
Export...
Remove
Help
Online Help
Actions
Import...
Create Certificate Request...
Complete Certificate Request...
Create Domain Certificate...
Create Self-Signed Certificate...
View...
Export...
Remove
Help
Online Help
Features View
Content View
Ready

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- Export via PowerShell or code

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Pay attention to where SSL terminates to find certs

IIS web root

- Web files for each IIS site associated with a SharePoint Web application

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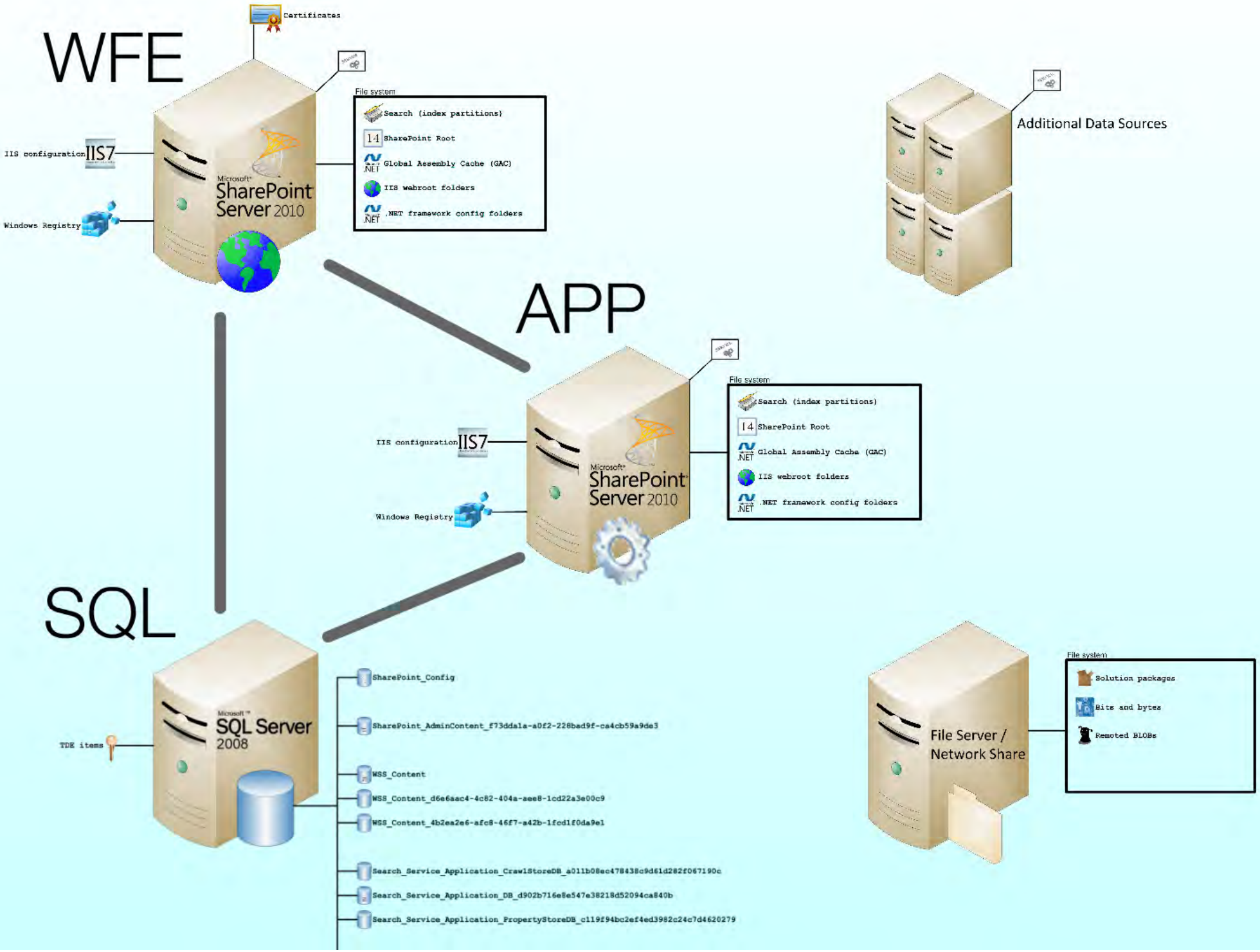
Where is it?

- C:\inetpub\wwwroot\wss\VirtualDirectories
- Other paths possible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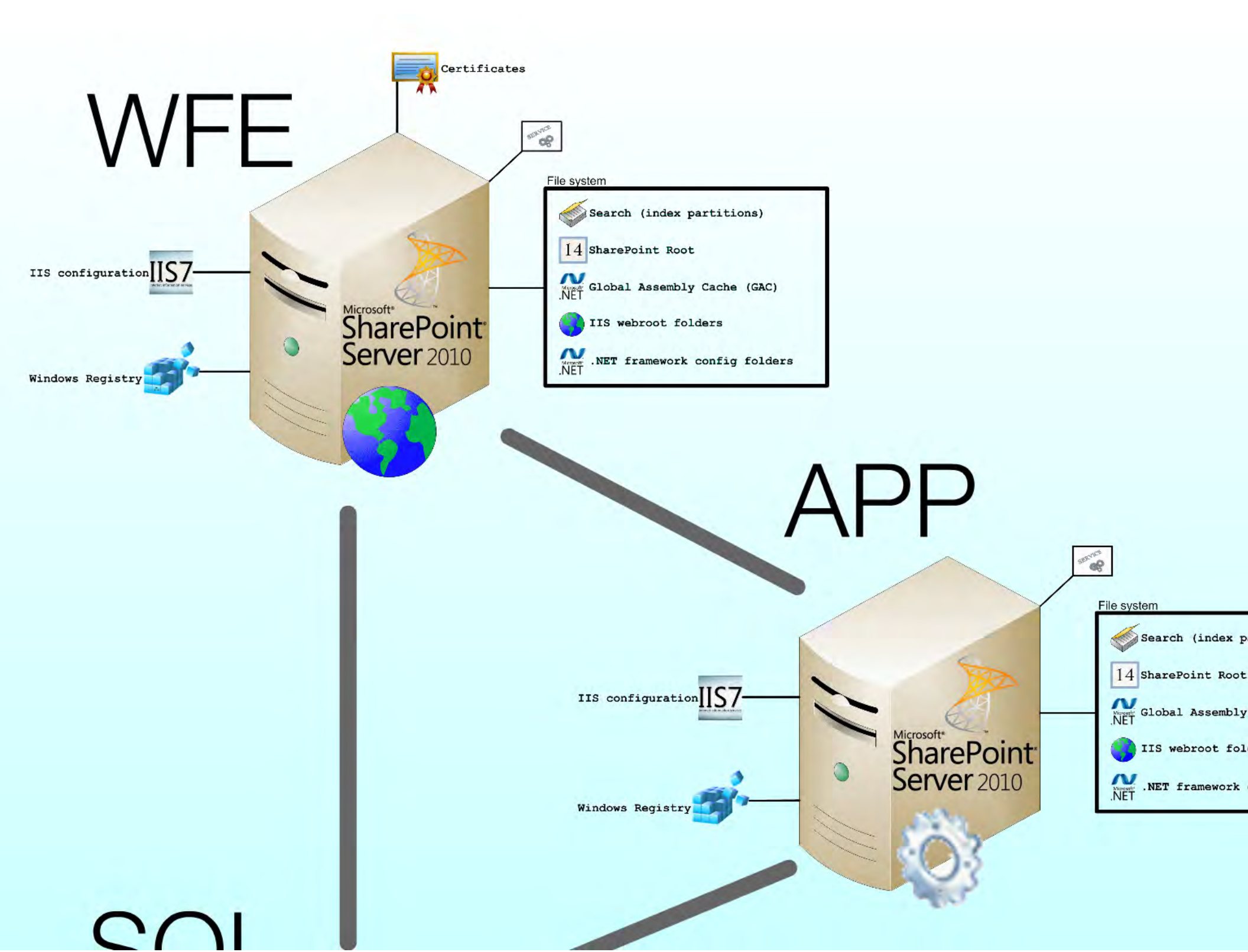
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APP
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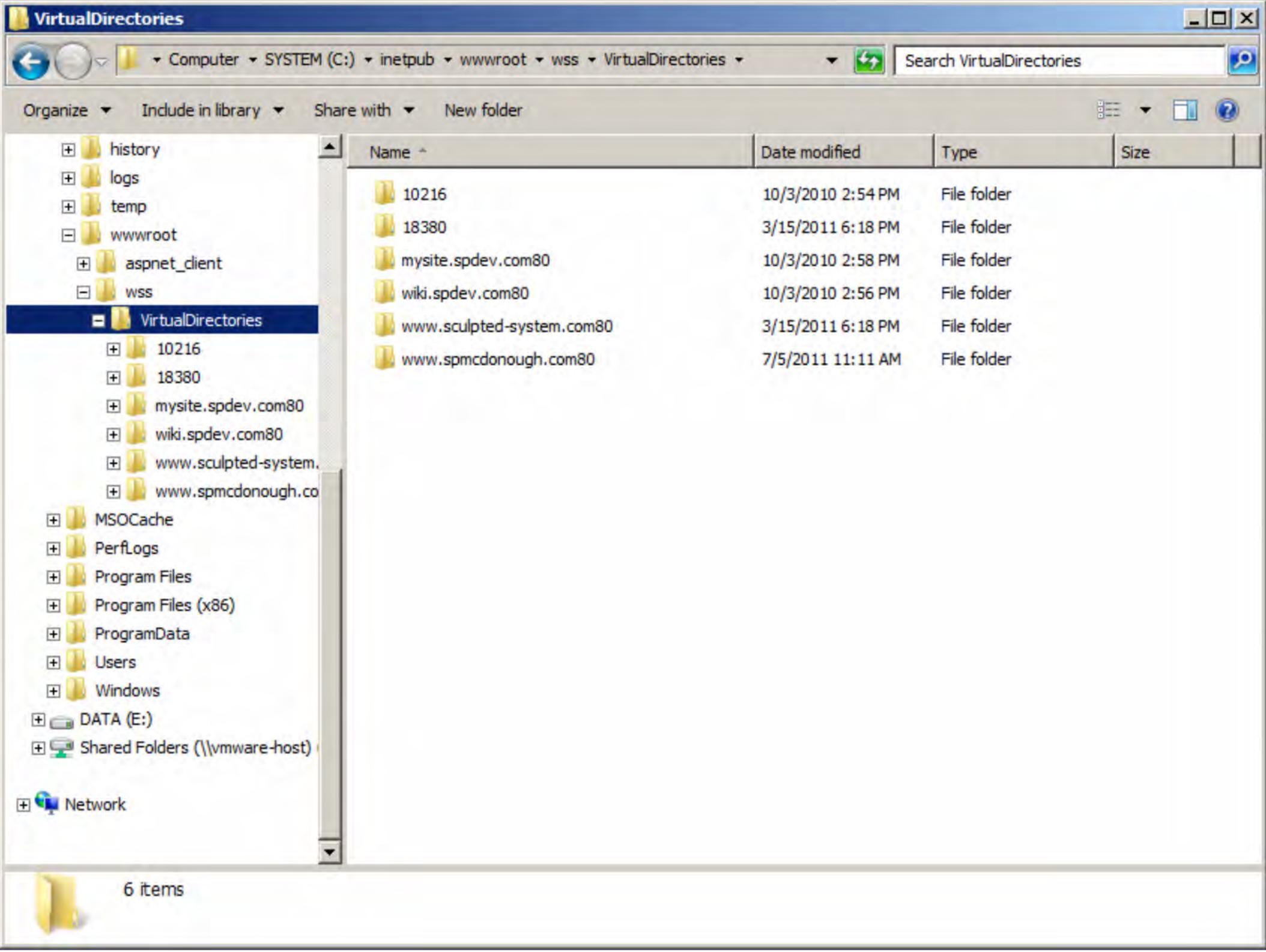
VirtualDirectories
Computer ▸ SYSTEM (C:) ▸ inetpub ▸ wwwroot ▸ wss ▸ VirtualDirectories
Search VirtualDirectories
Organize
Include in library
Share with
New folder
history
logs
temp
wwwroot
aspnet_client
wss
VirtualDirectories
10216
18380
mysite.spdev.com80
wiki.spdev.com80
www.sculpted-system.
www.spmcdonough.co
MSOCache
PerfLogs
Program Files
Program Files (x86)
ProgramData
Users
Windows
DATA (E:)
Shared Folders (\\vmware-host)
Network
Name
Date modified
Type
Size
10216 10/3/2010 2:54 PM File folder
18380 3/15/2011 6:18 PM File folder
mysite.spdev.com80 10/3/2010 2:58 PM File folder
wiki.spdev.com80 10/3/2010 2:56 PM File folder
www.sculpted-system.com80 3/15/2011 6:18 PM File folder
www.spmcdonough.com80 7/5/2011 11:11 AM File folder
6 items

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Protection

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Global Assembly Cache

- Microsoft .NET Framework GAC is a repository for shared libraries (DLLs) and native images

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Where is it?

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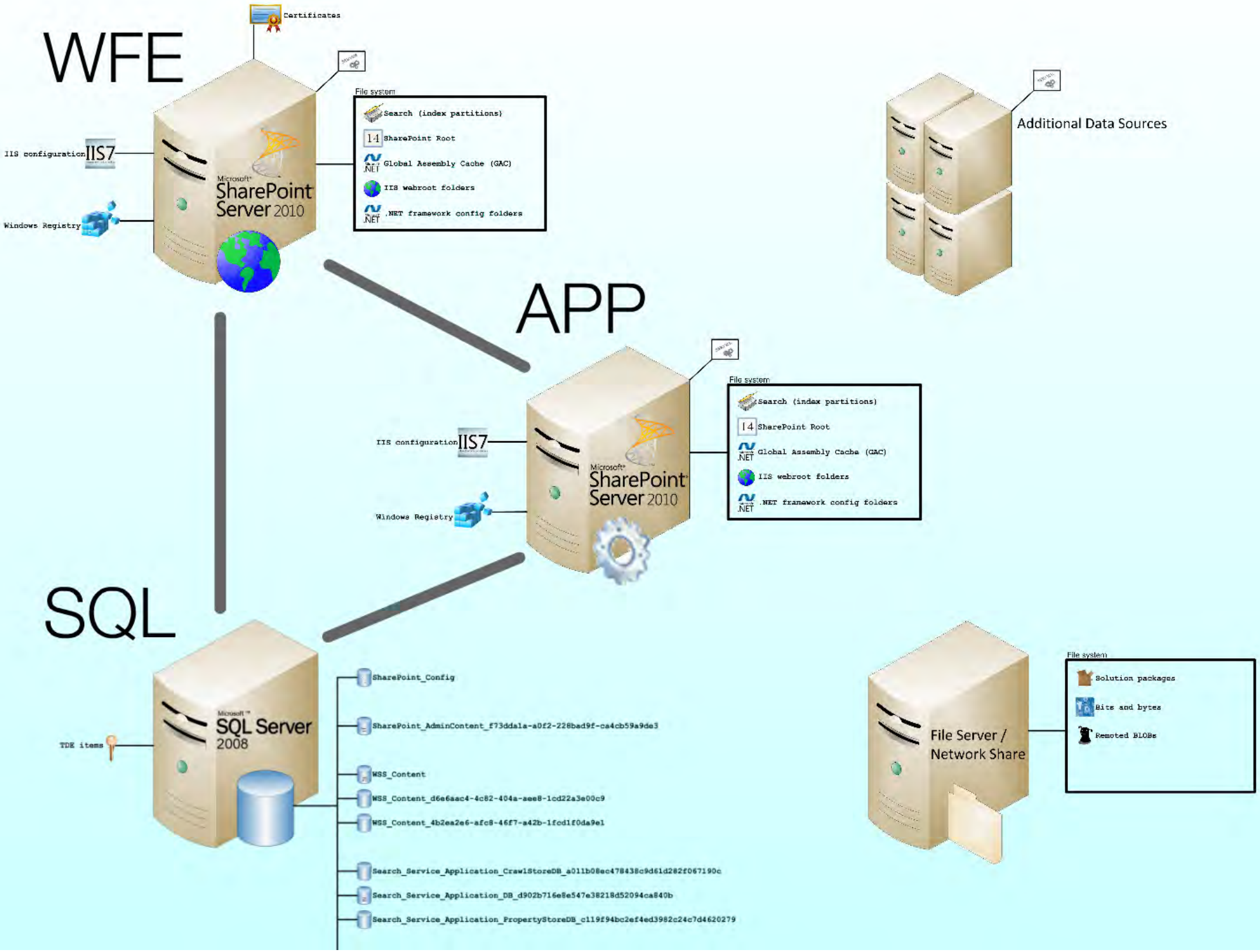
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WSS_Content_4b2ea2e6-afc8-46f7-a42b-1fcd1f0da9e1
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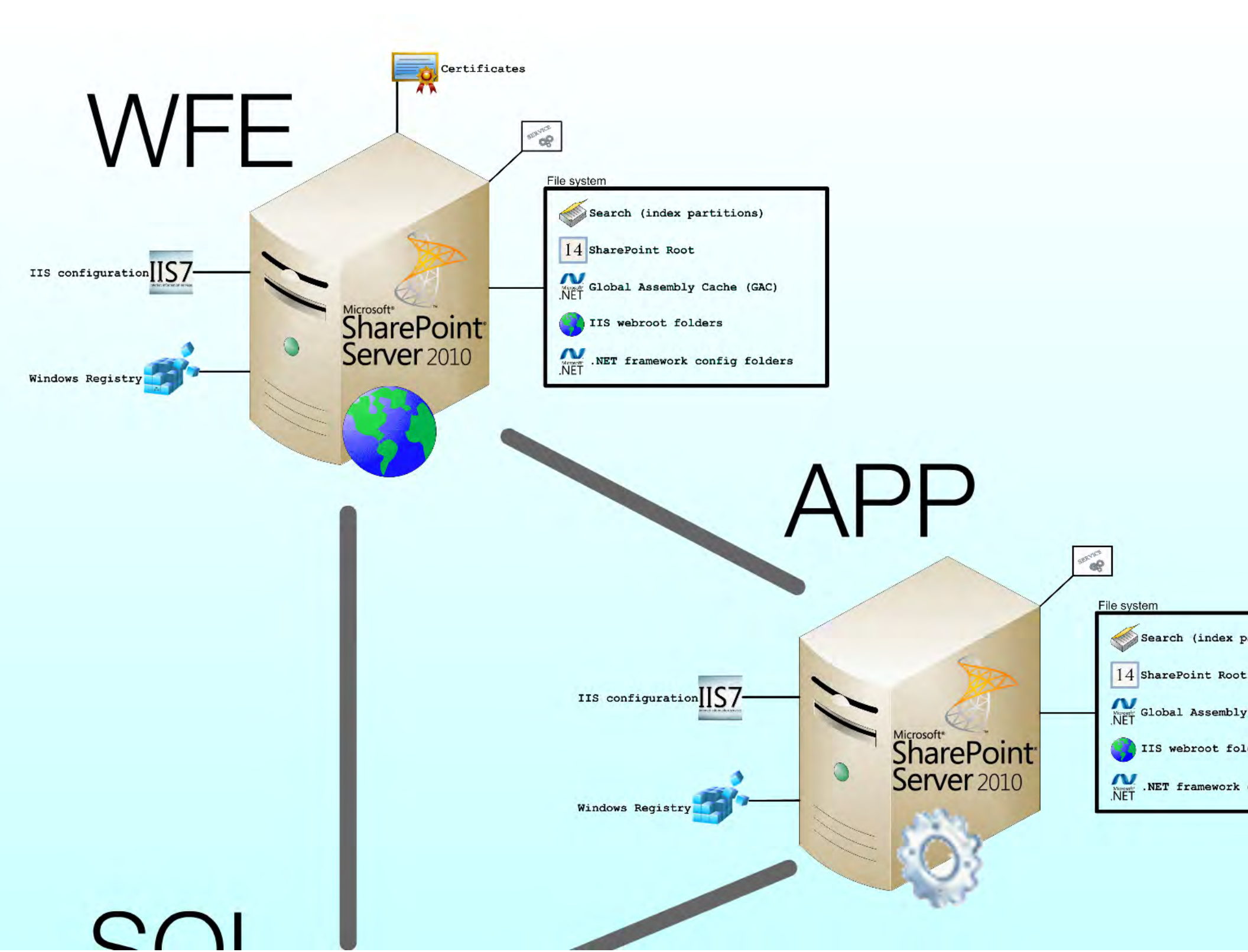
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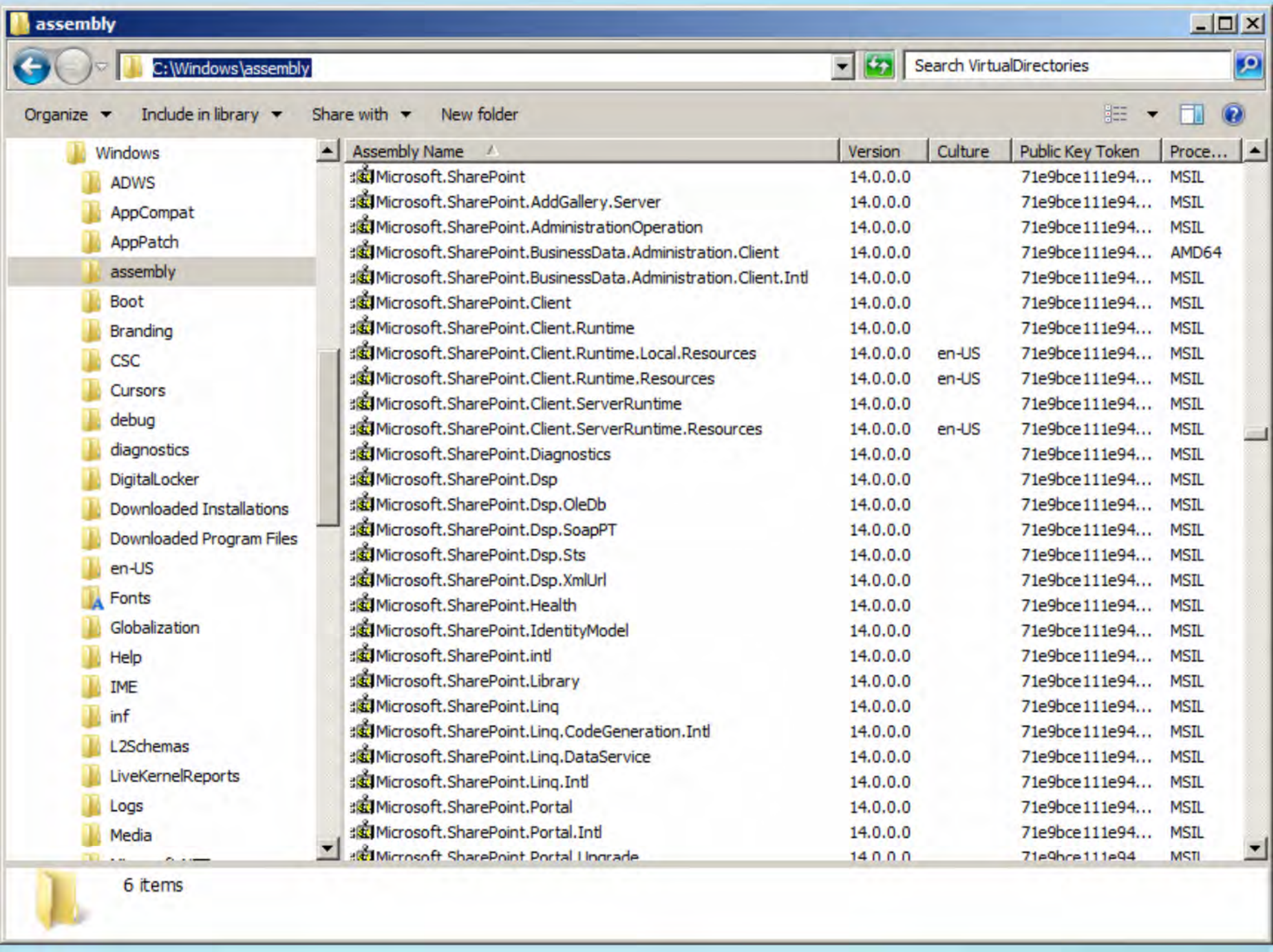
assembly
C:\Windows\assembly
Search VirtualDirectories
Organize
Include in library
Share with
New folder
Windows
ADWS
AppCompat
AppPatch
assembly
Boot
Branding
CSC
Cursors
debug
diagnostics
DigitalLocker
Downloaded Installations
Downloaded Program Files
en-US
Fonts
Globalization
Help
IME
inf
L2Schemas
LiveKernelReports
Logs
Media
Assembly Name
Version
Culture
Public Key Token
Proce...
Microsoft.SharePoint 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.AddGallery.Server 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.AdministrationOperation 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.BusinessData.Administration.Client 14.0.0.0 71e9bce111e94... AMD64
Microsoft.SharePoint.BusinessData.Administration.Client.Intl 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Client 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Client.Runtime 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Client.Runtime.Local.Resources 14.0.0.0 en-US 71e9bce111e94... MSIL
Microsoft.SharePoint.Client.Runtime.Resources 14.0.0.0 en-US 71e9bce111e94... MSIL
Microsoft.SharePoint.Client.ServerRuntime 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Client.ServerRuntime.Resources 14.0.0.0 en-US 71e9bce111e94... MSIL
Microsoft.SharePoint.Diagnostics 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Dsp 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Dsp.OleDb 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Dsp.SoapPT 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Dsp.Sts 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Dsp.XmlUrl 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Health 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.IdentityModel 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.intl 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Library 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Linq 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Linq.CodeGeneration.Intl 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Linq.DataService 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Linq.Intl 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Portal 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Portal.Intl 14.0.0.0 71e9bce111e94... MSIL
6 items

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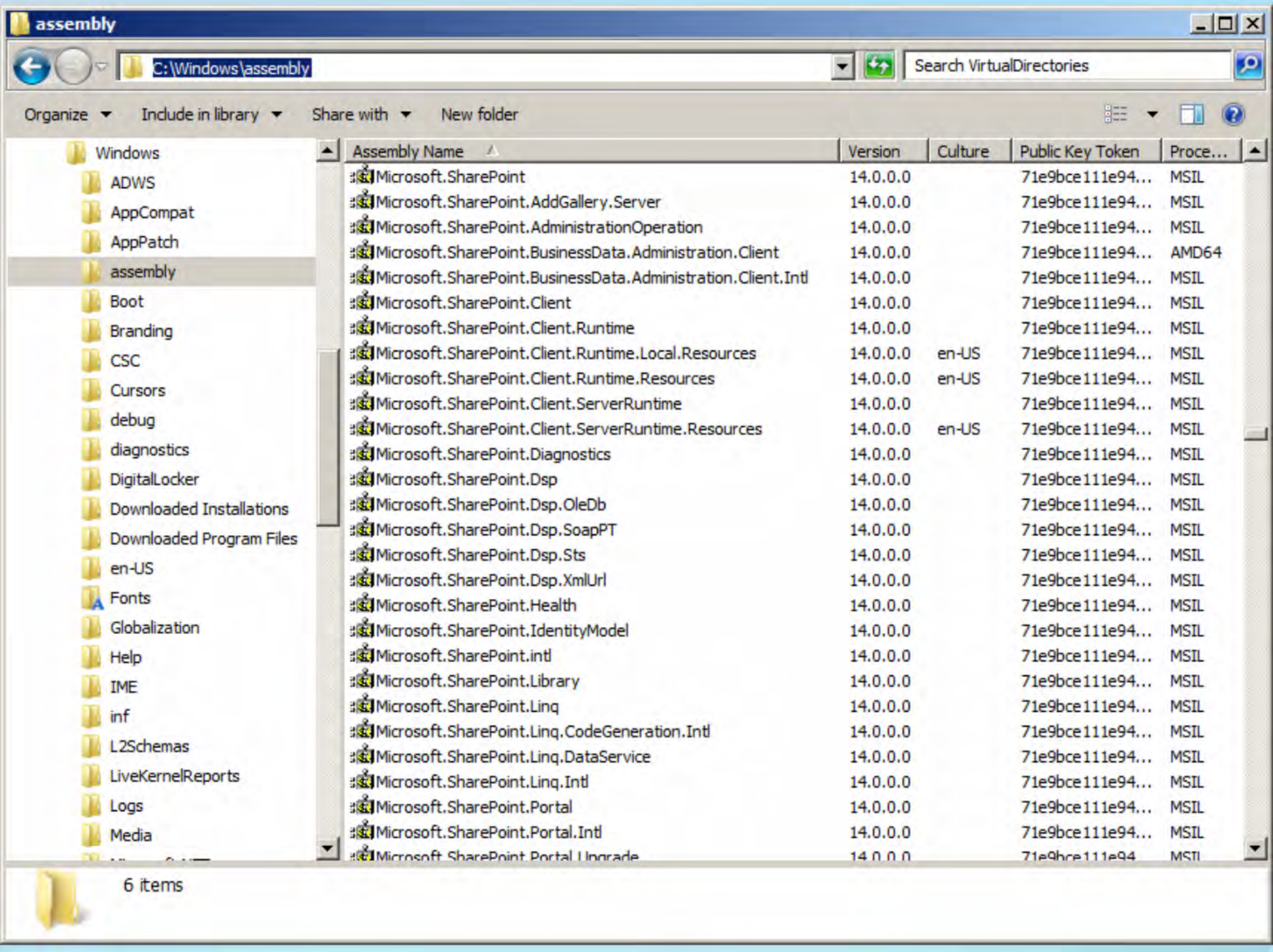
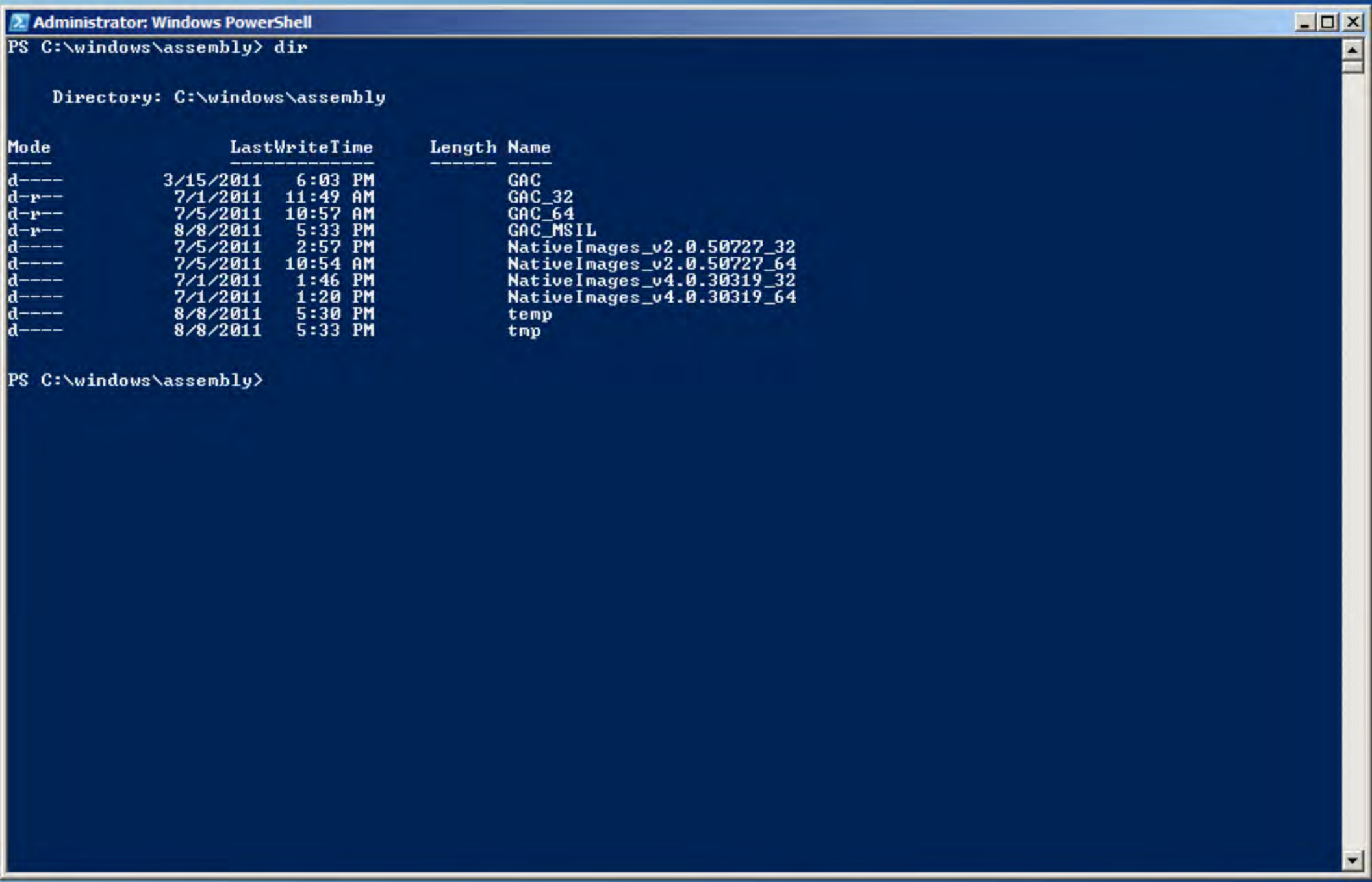
Protection

- File system backup*


assembly
C:\Windows\assembly
Search VirtualDirectories
Organize
Include in library
Share with
New folder
Windows
ADWS
AppCompat
AppPatch
assembly
Boot
Branding
CSC
Cursors
debug
diagnostics
DigitalLocker
Downloaded Installations
Downloaded Program Files
en-US
Fonts
Globalization
Help
IME
inf
L2Schemas
LiveKernelReports
Logs
Media
Assembly Name
Version
Culture
Public Key Token
Proce...
Microsoft.SharePoint 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.AddGallery.Server 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.AdministrationOperation 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.BusinessData.Administration.Client 14.0.0.0 71e9bce111e94... AMD64
Microsoft.SharePoint.BusinessData.Administration.Client.Intl 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Client 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Client.Runtime 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Client.Runtime.Local.Resources 14.0.0.0 en-US 71e9bce111e94... MSIL
Microsoft.SharePoint.Client.Runtime.Resources 14.0.0.0 en-US 71e9bce111e94... MSIL
Microsoft.SharePoint.Client.ServerRuntime 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Client.ServerRuntime.Resources 14.0.0.0 en-US 71e9bce111e94... MSIL
Microsoft.SharePoint.Diagnostics 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Dsp 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Dsp.OleDb 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Dsp.SoapPT 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Dsp.Sts 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Dsp.XmlUrl 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Health 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.IdentityModel 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.intl 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Library 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Linq 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Linq.CodeGeneration.Intl 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Linq.DataService 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Linq.Intl 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Portal 14.0.0.0 71e9bce111e94... MSIL
Microsoft.SharePoint.Portal.Intl 14.0.0.0 71e9bce111e94... MSIL
6 items


Administrator: Windows PowerShell
PS C:\windows\assembly> dir
Directory: C:\windows\assembly
Mode LastWriteTime Length Name
d---- 3/15/2011 6:03 PM GAC
d-r-- 7/1/2011 11:49 AM GAC_32
d-r-- 7/5/2011 10:57 AM GAC_64
d-r-- 8/8/2011 5:33 PM GAC_MSIL
d---- 7/5/2011 2:57 PM NativeImages_v2.0.50727_32
d---- 7/5/2011 10:54 AM NativeImages_v2.0.50727_64
d---- 7/1/2011 1:46 PM NativeImages_v4.0.30319_32
d---- 7/1/2011 1:20 PM NativeImages_v4.0.30319_64
d---- 8/8/2011 5:30 PM temp
d---- 8/8/2011 5:33 PM tmp
PS C:\windows\assembly>

Global Assembly Cache

- Microsoft .NET Framework GAC is a repository for shared libraries (DLLs) and native images

Where is it?

- C:\Windows\assembly

Worth protecting?

- Sometimes (typically for decentralized customizations)

Protection

- File system backup*

Global Assembly Cache

- Microsoft .NET Framework GAC is a repository for shared libraries (DLLs) and native images

Where is it?

- C:\Windows\assembly

Worth protecting?

- Sometimes (typically for decentralized customizations)

Protection

- File system backup*

Avoid complete overwrites when restoring

Registry

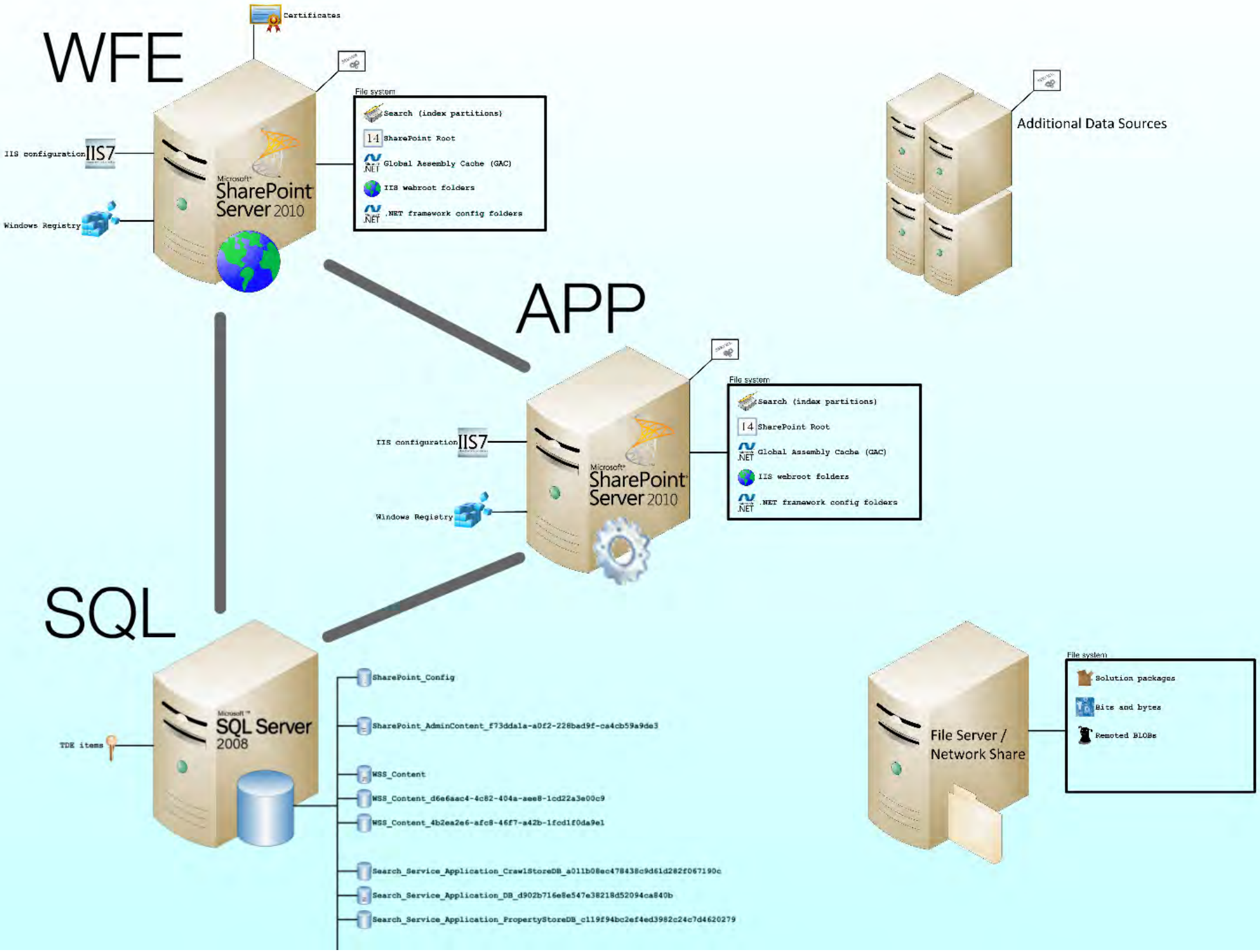
- Windows Operating System database for system and program information storage

Registry

- Windows Operating System database for system and program information storage

Where is it?

- C:\Windows\System32\config (mostly)
- User profile area (for each user's HKEY_CURRENT_USER settings)


WFE
Certificates
File system
Search (index partitions)
14 SharePoint Root
Global Assembly Cache (GAC)
IIS webroot folders
.NET framework config folders
IIS configuration
IIS7
Windows Registry
Microsoft SharePoint Server 2010
Additional Data Sources
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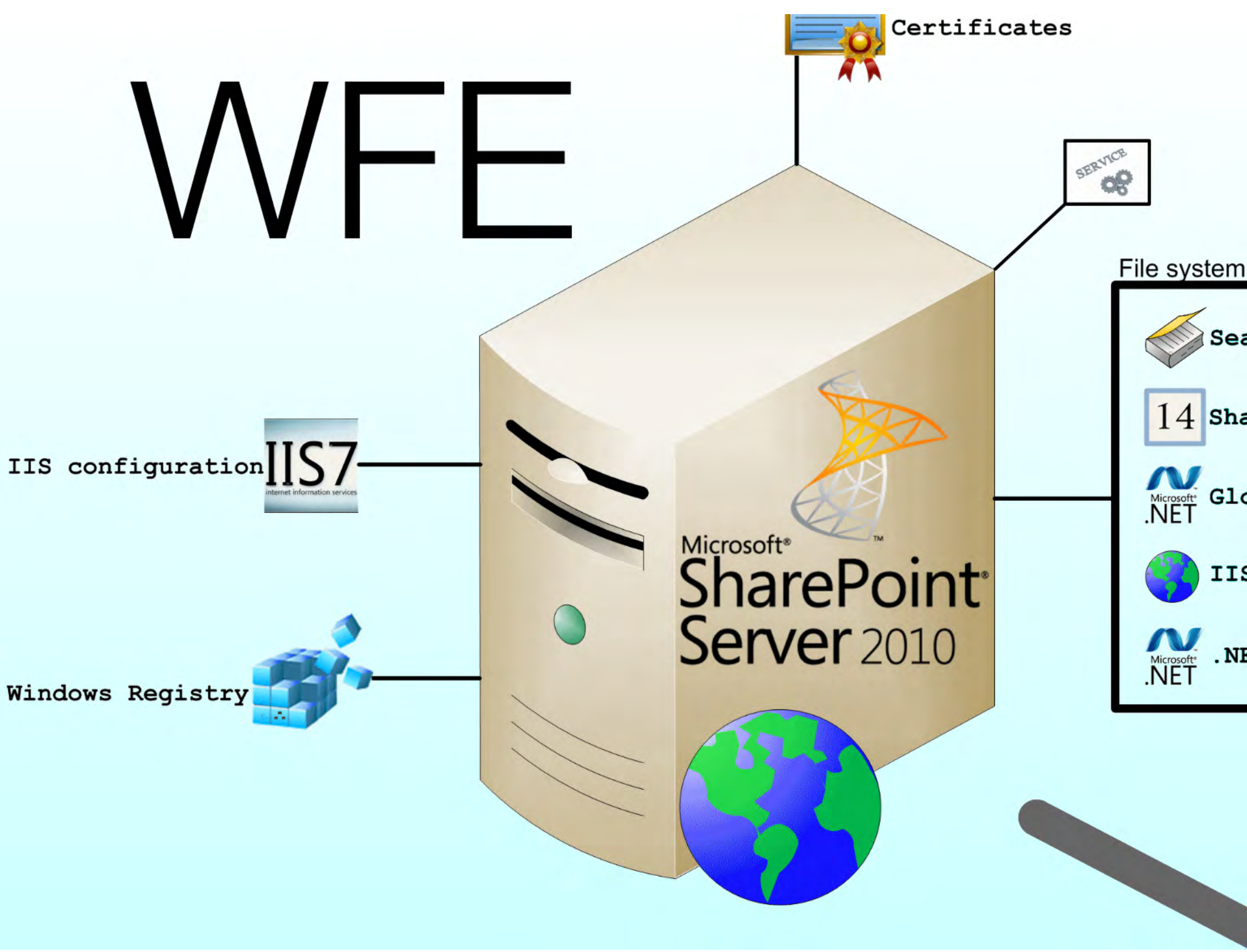
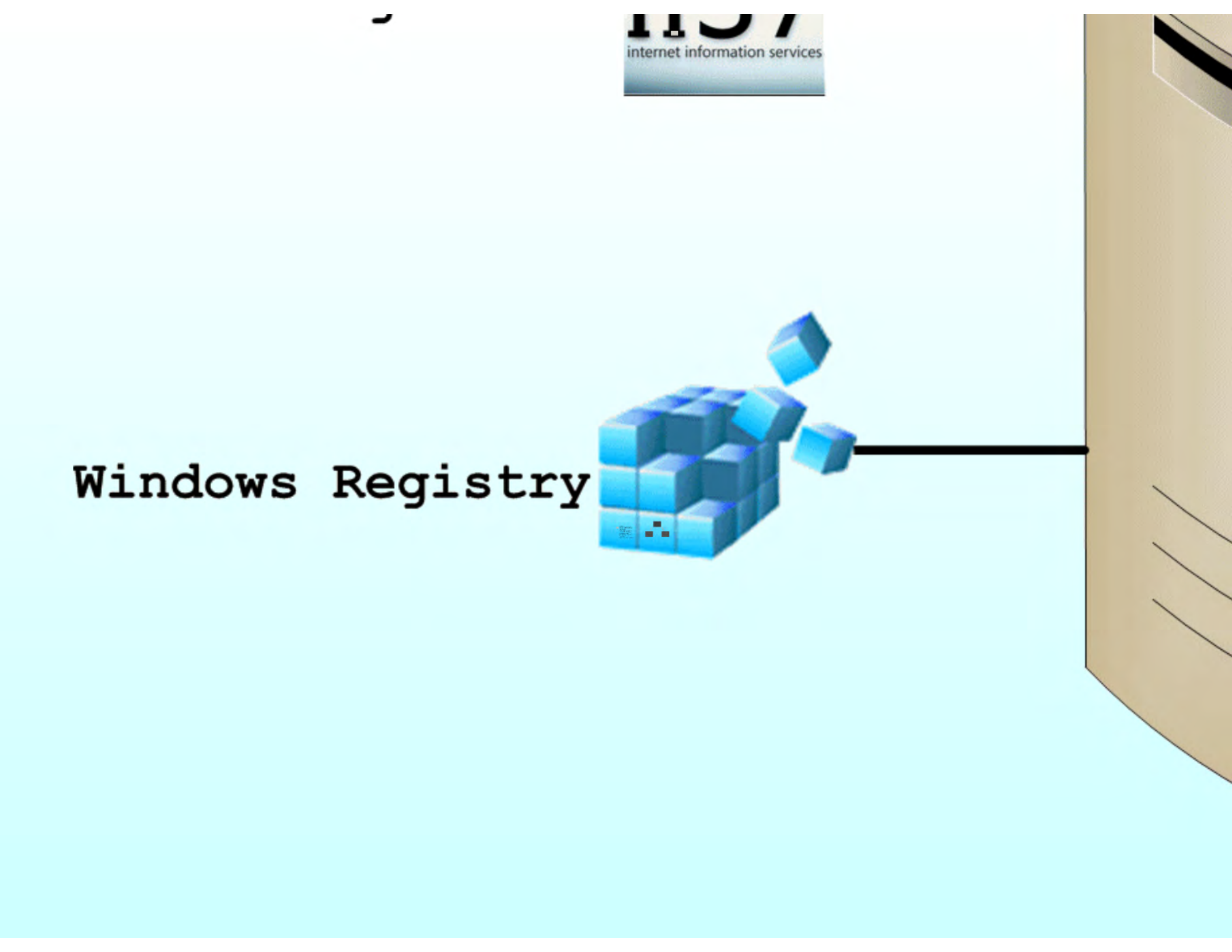
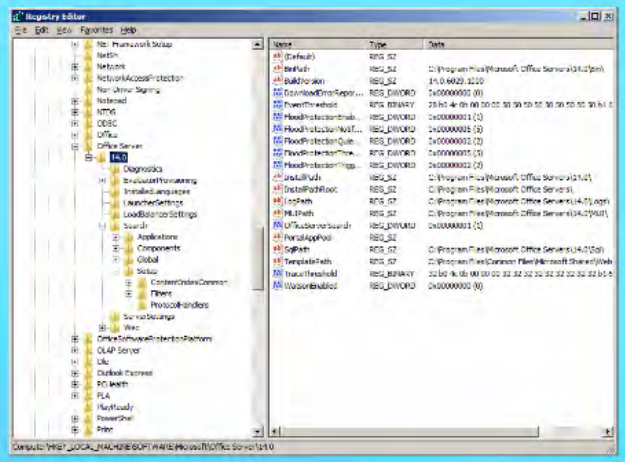
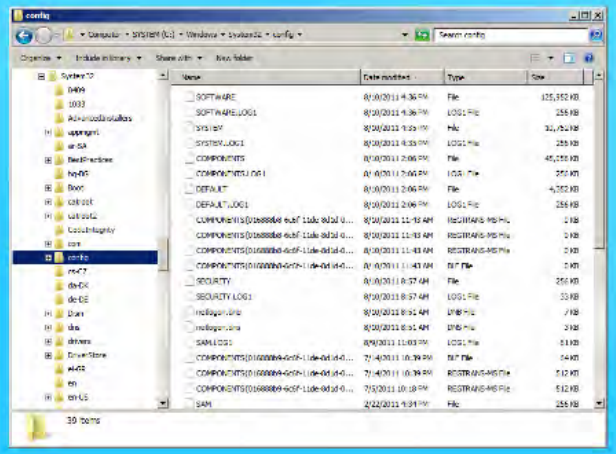
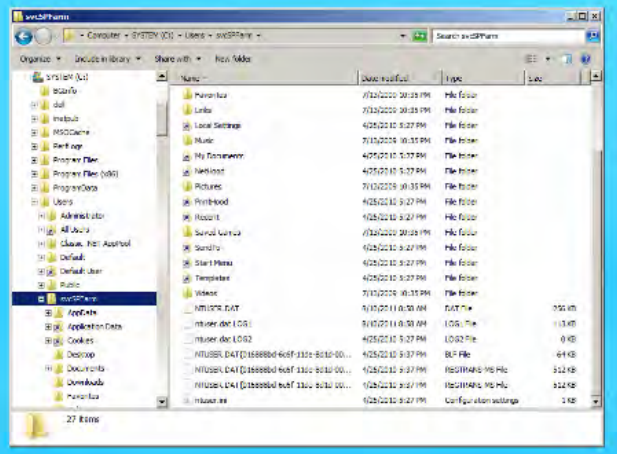
Windows Registry
Microsoft SharePoint Server 2010
SQL
TDE items
Microsoft SQL Server 2008
SharePoint_Config
SharePoint_AdminContent_f73ddala-a0f2-228bad9f-ca4cb59a9de3
WSS_Content
WSS_Content_d6e6aac4-4c82-404a-aee8-1cd22a3e00c9
WSS_Content_4b2ea2e6-afc8-46f7-a42b-1fcd1f0da9e1
Search_Service_Application_CrawlStoreDB_a011b08ec478438c9d61d282f067190c
Search_Service_Application_DB_d902b716e8e547e38218d52094ca840b
Search_Service_Application_PropertyStoreDB_c119f94bc2ef4ed3982c24c7d4620279
File Server / Network Share
File system
Solution packages
Bits and bytes
Remoted BLOBs

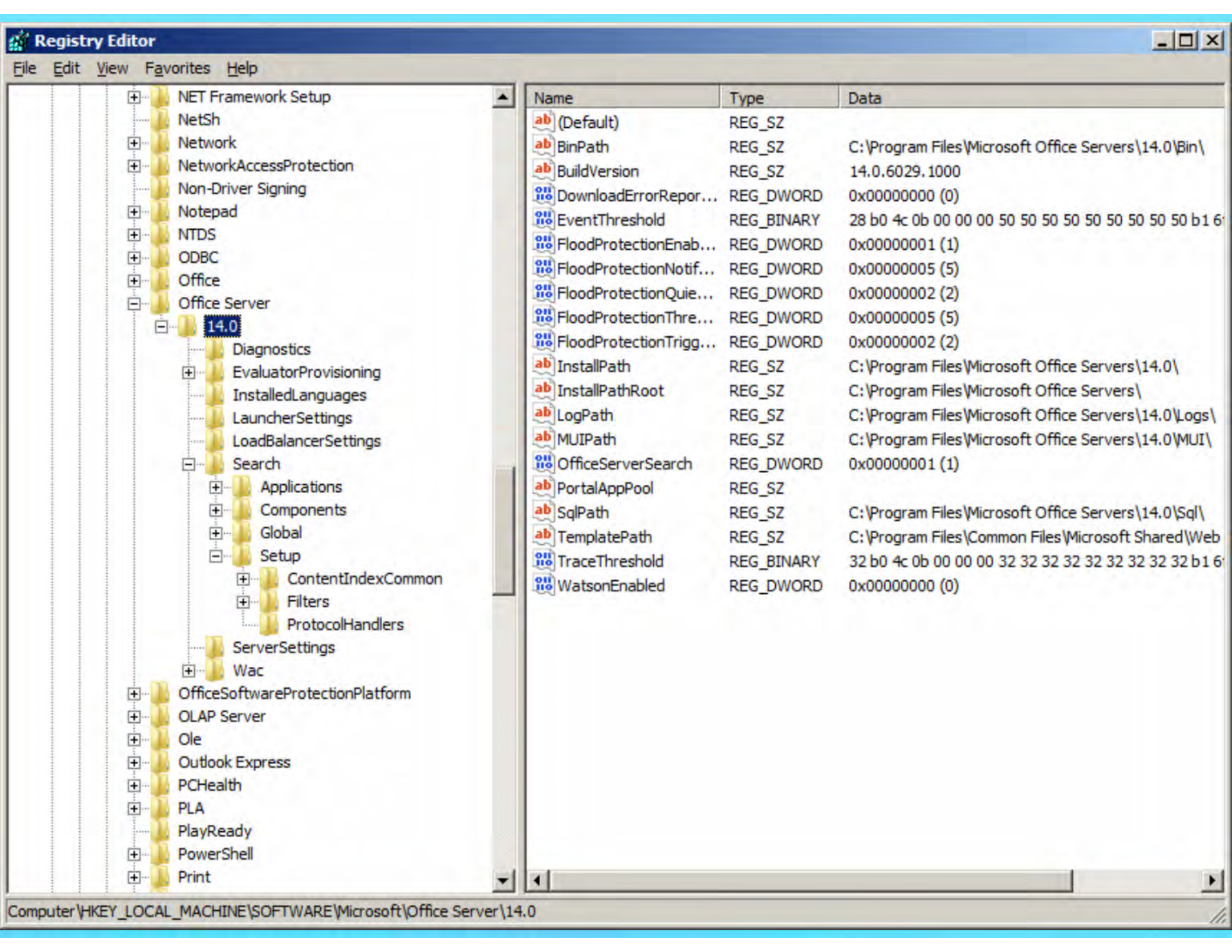

WFE
Certificates
SERVICE
File system
IIS configuration
IIS7
internet information services
Windows Registry
Microsoft®
SharePoint®
Server 2010
14
Microsoft®
.NET
Microsoft®
.NET

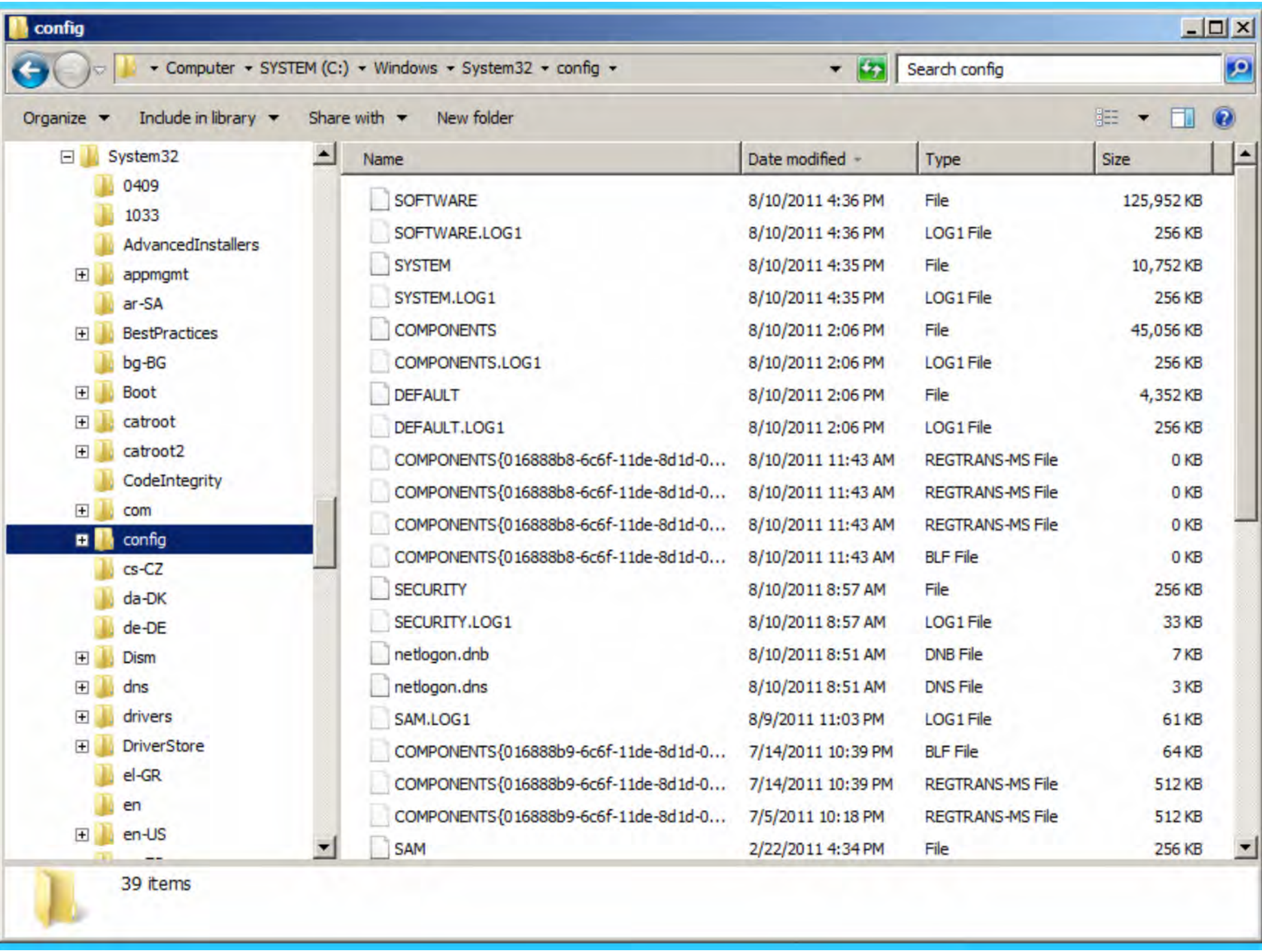

internet information services
Windows Registry

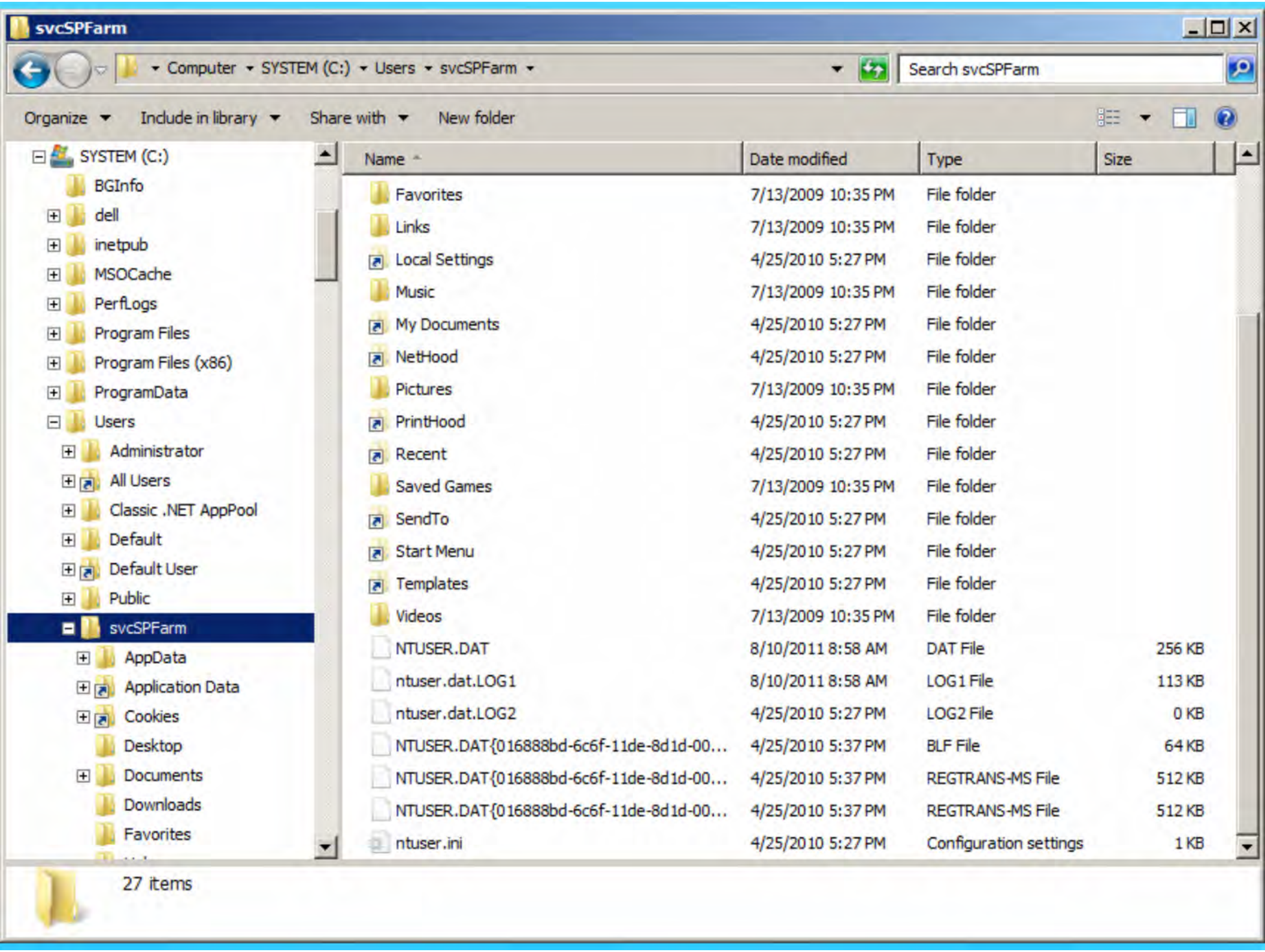







Registry Editor
File Edit View Favorites Help
NET Framework Setup
NetSh
Network
NetworkAccessProtection
Non-Driver Signing
Notepad
NTDS
ODBC
Office
Office Server
14.0
Diagnostics
EvaluatorProvisioning
InstalledLanguages
LauncherSettings
LoadBalancerSettings
Search
Applications
Components
Global
Setup
ContentIndexCommon
Filters
ProtocolHandlers
ServerSettings
Wac
OfficeSoftwareProtectionPlatform
OLAP Server
Ole
Outlook Express
PCHealth
PLA
PlayReady
PowerShell
Print
Name Type Data
(Default) REG_SZ
BinPath REG_SZ C:\Program Files\Microsoft Office Servers\14.0\Bin\
BuildVersion REG_SZ 14.0.6029.1000
DownloadErrorRepor... REG_DWORD 0x00000000 (0)
EventThreshold REG_BINARY 28 b0 4c 0b 00 00 00 50 50 50 50 50 50 50 50 50 b1 6
FloodProtectionEnab... REG_DWORD 0x00000001 (1)
FloodProtectionNotif... REG_DWORD 0x00000005 (5)
FloodProtectionQuie... REG_DWORD 0x00000002 (2)
FloodProtectionThre... REG_DWORD 0x00000005 (5)
FloodProtectionTrigg... REG_DWORD 0x00000002 (2)
InstallPath REG_SZ C:\Program Files\Microsoft Office Servers\14.0\
InstallPathRoot REG_SZ C:\Program Files\Microsoft Office Servers\
LogPath REG_SZ C:\Program Files\Microsoft Office Servers\14.0\Logs\
MUIPath REG_SZ C:\Program Files\Microsoft Office Servers\14.0\MUI\
OfficeServerSearch REG_DWORD 0x00000001 (1)
PortalAppPool REG_SZ
SqlPath REG_SZ C:\Program Files\Microsoft Office Servers\14.0\Sql\
TemplatePath REG_SZ C:\Program Files\Common Files\Microsoft Shared\Web
TraceThreshold REG_BINARY 32 b0 4c 0b 00 00 00 32 32 32 32 32 32 32 32 32 b1 6
WatsonEnabled REG_DWORD 0x00000000 (0)
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Office Server\14.0


config
Computer ▸ SYSTEM (C:) ▸ Windows ▸ System32 ▸ config
Search config
Organize
Include in library
Share with
New folder
System32
0409
1033
AdvancedInstallers
appmgmt
ar-SA
BestPractices
bg-BG
Boot
catroot
catroot2
CodeIntegrity
com
config
cs-CZ
da-DK
de-DE
Dism
dns
drivers
DriverStore
el-GR
en
en-US
Name
Date modified
Type
Size
SOFTWARE 8/10/2011 4:36 PM File 125,952 KB
SOFTWARE.LOG1 8/10/2011 4:36 PM LOG1 File 256 KB
SYSTEM 8/10/2011 4:35 PM File 10,752 KB
SYSTEM.LOG1 8/10/2011 4:35 PM LOG1 File 256 KB
COMPONENTS 8/10/2011 2:06 PM File 45,056 KB
COMPONENTS.LOG1 8/10/2011 2:06 PM LOG1 File 256 KB
DEFAULT 8/10/2011 2:06 PM File 4,352 KB
DEFAULT.LOG1 8/10/2011 2:06 PM LOG1 File 256 KB
COMPONENTS{016888b8-6c6f-11de-8d1d-0... 8/10/2011 11:43 AM REGTRANS-MS File 0 KB
COMPONENTS{016888b8-6c6f-11de-8d1d-0... 8/10/2011 11:43 AM REGTRANS-MS File 0 KB
COMPONENTS{016888b8-6c6f-11de-8d1d-0... 8/10/2011 11:43 AM REGTRANS-MS File 0 KB
COMPONENTS{016888b8-6c6f-11de-8d1d-0... 8/10/2011 11:43 AM BLF File 0 KB
SECURITY 8/10/2011 8:57 AM File 256 KB
SECURITY.LOG1 8/10/2011 8:57 AM LOG1 File 33 KB
netlogon.dnb 8/10/2011 8:51 AM DNB File 7 KB
netlogon.dns 8/10/2011 8:51 AM DNS File 3 KB
SAM.LOG1 8/9/2011 11:03 PM LOG1 File 61 KB
COMPONENTS{016888b9-6c6f-11de-8d1d-0... 7/14/2011 10:39 PM BLF File 64 KB
COMPONENTS{016888b9-6c6f-11de-8d1d-0... 7/14/2011 10:39 PM REGTRANS-MS File 512 KB
COMPONENTS{016888b9-6c6f-11de-8d1d-0... 7/5/2011 10:18 PM REGTRANS-MS File 512 KB
SAM 2/22/2011 4:34 PM File 256 KB
39 items


svcSPFarm
Computer ▸ SYSTEM (C:) ▸ Users ▸ svcSPFarm ▸
Search svcSPFarm
Organize
Include in library
Share with
New folder
SYSTEM (C:)
BGInfo
dell
inetpub
MSOCache
PerfLogs
Program Files
Program Files (x86)
ProgramData
Users
Administrator
All Users
Classic .NET AppPool
Default
Default User
Public
svcSPFarm
AppData
Application Data
Cookies
Desktop
Documents
Downloads
Favorites
Name
Date modified
Type
Size
Favorites 7/13/2009 10:35 PM File folder
Links 7/13/2009 10:35 PM File folder
Local Settings 4/25/2010 5:27 PM File folder
Music 7/13/2009 10:35 PM File folder
My Documents 4/25/2010 5:27 PM File folder
NetHood 4/25/2010 5:27 PM File folder
Pictures 7/13/2009 10:35 PM File folder
PrintHood 4/25/2010 5:27 PM File folder
Recent 4/25/2010 5:27 PM File folder
Saved Games 7/13/2009 10:35 PM File folder
SendTo 4/25/2010 5:27 PM File folder
Start Menu 4/25/2010 5:27 PM File folder
Templates 4/25/2010 5:27 PM File folder
Videos 7/13/2009 10:35 PM File folder
NTUSER.DAT 8/10/2011 8:58 AM DAT File 256 KB
ntuser.dat.LOG1 8/10/2011 8:58 AM LOG1 File 113 KB
ntuser.dat.LOG2 4/25/2010 5:27 PM LOG2 File 0 KB
NTUSER.DAT{016888bd-6c6f-11de-8d1d-00... 4/25/2010 5:37 PM BLF File 64 KB
NTUSER.DAT{016888bd-6c6f-11de-8d1d-00... 4/25/2010 5:37 PM REGTRANS-MS File 512 KB
NTUSER.DAT{016888bd-6c6f-11de-8d1d-00... 4/25/2010 5:37 PM REGTRANS-MS File 512 KB
ntuser.ini 4/25/2010 5:27 PM Configuration settings 1 KB
27 items

Registry

- Windows Operating System database for system and program information storage

Where is it?

- C:\Windows\System32\config (mostly)
- User profile area (for each user's HKEY_CURRENT_USER settings)

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Worth protecting?

- Some branches (e.g., HKLM\SOFTWARE\Microsoft\Office Server\14.0\...)

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Protection

- Regedit export, PowerShell, documentation

Bits and bytes

- The (often-forgotten) files and installers need to rebuild a SharePoint environment: setup files, OWAs, SPs, CUs, iFilter packs, SQL client install, etc.

Bits and bytes

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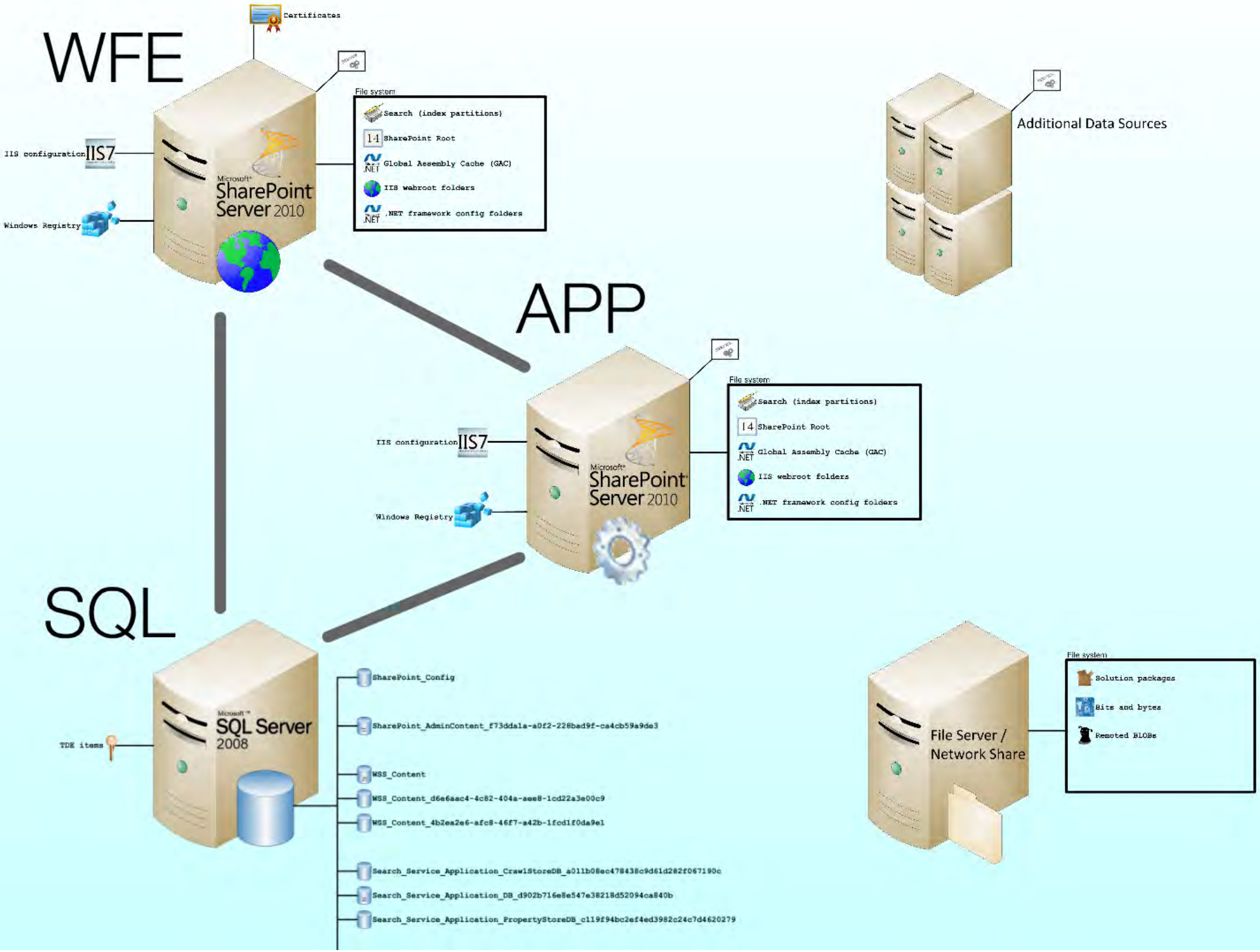
WFE
Certificates
File system
Search (index partitions)
14 SharePoint Root
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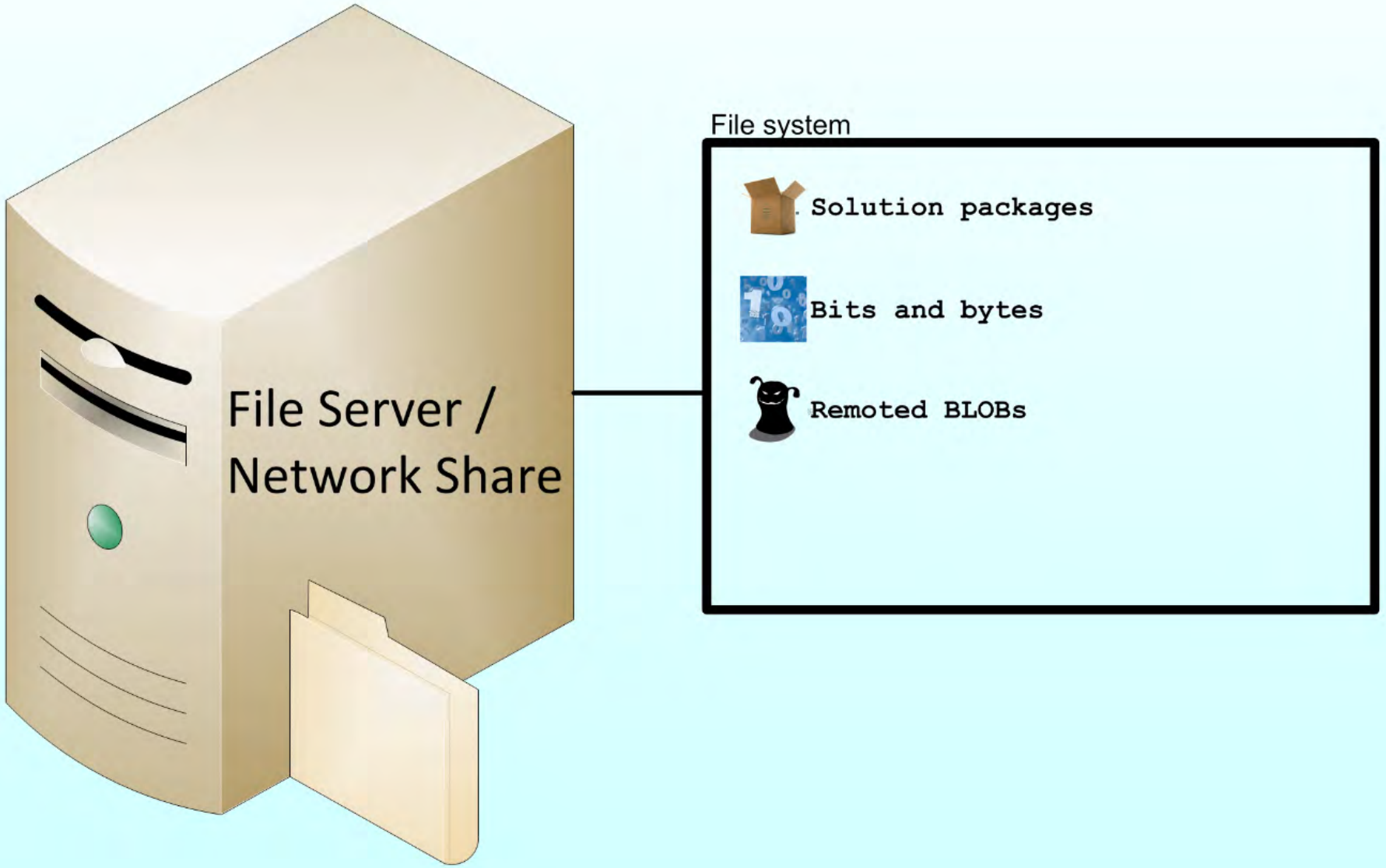
SQL
TDE items
Microsoft SQL Server 2008
SharePoint_Config
SharePoint_AdminContent_f73ddala-a0f2-228bad9f-ca4cb59a9de3
WSS_Content
WSS_Content_d6e6aac4-4c82-404a-aee8-1cd22a3e00c9
WSS_Content_4b2ea2e6-afc8-46f7-a42b-1fcd1f0da9e1
Search_Service_Application_CrawlStoreDB_a011b08ec478438c9d61d282f067190c
Search_Service_Application_DB_d902b716e8e547e38218d52094ca840b
Search_Service_Application_PropertyStoreDB_c119f94bc2ef4ed3982c24c7d4620279
File Server / Network Share
File system
Solution packages
Bits and bytes
Remoted BLOBs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Solution packag

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Bits and bytes

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- If your DR strategy involves rebuilding the SharePoint farm, then yes

Bits and bytes

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Where are they?

- Typically scattered on shares or media

Worth protecting?

- If your DR strategy involves rebuilding the SharePoint farm, then yes

Protection

- External media/disks, replicated storage

Related targets

"important to remember"

- Solution packages
- SharePoint Root
- IIS Configuration
- Certificates
- IIS web root
- GAC
- Registry
- Bits and bytes

The
FIRE

Edge cases and esoteric targets

sometimes confused with the dark arts …

- .NET framework config folders
- Remote BLOB storage (RBS)
- SQL Server TDE
- External data sources
- Single server farm …

.NET Framework config

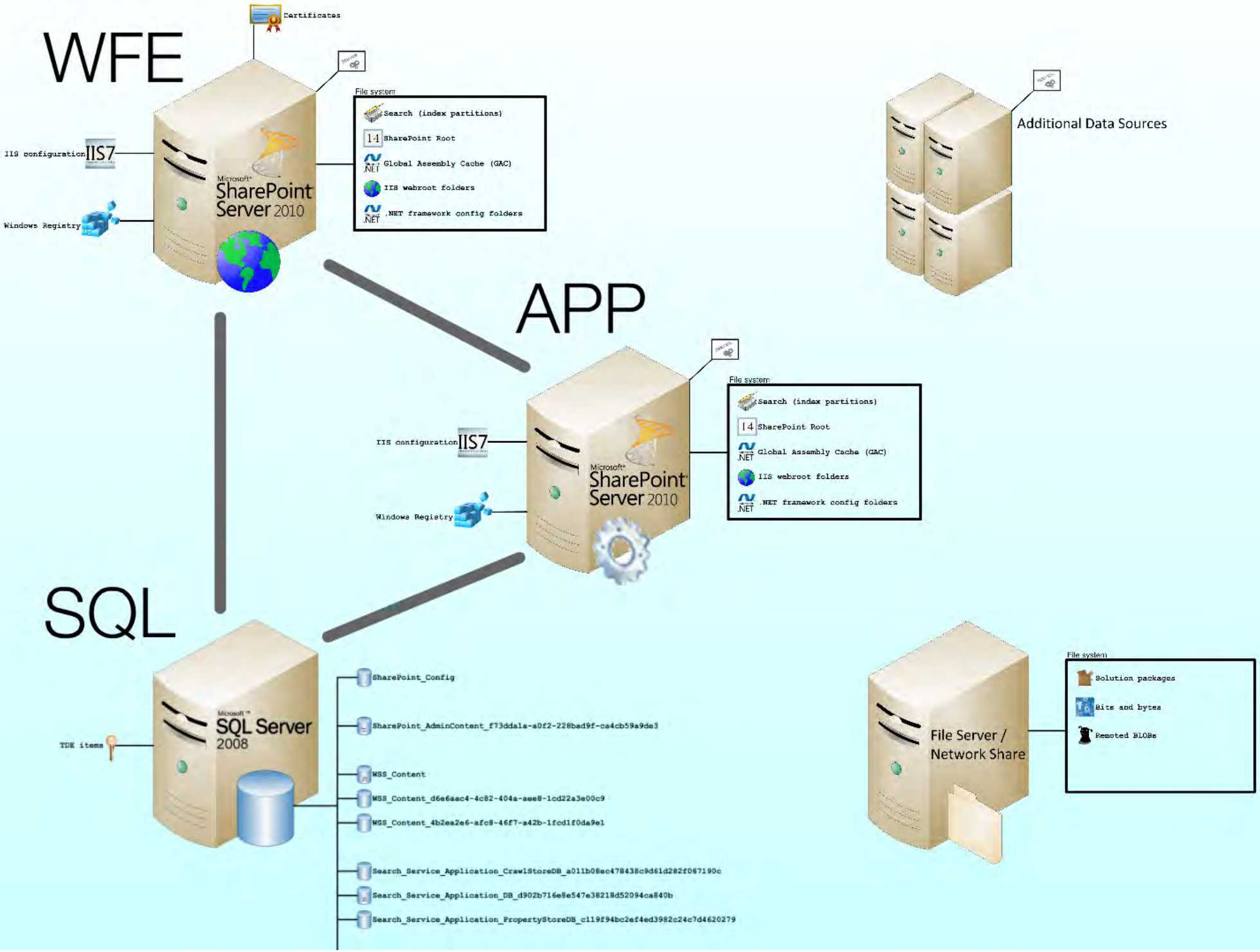
- System-wide configuration files and defaults for .NET applications

.NET Framework config

- System-wide configuration files and defaults for .NET applications

Where are they?

- C:\Windows\Microsoft.NET\Framework\v…\Config and \Framework64\v...\Config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SharePoint_Config
SharePoint_AdminContent_f73ddala-a0f2-228bad9f-ca4cb59a9de3
WSS_Content
WSS_Content_d6e6aac4-4c82-404a-aee8-1cd22a3e00c9
WSS_Content_4b2ea2e6-afc8-46f7-a42b-1fcd1f0da9e1
Search_Service_Application_CrawlStoreDB_a011b08ec478438c9d61d282f067190c
Search_Service_Application_DB_d902b716e8e547e38218d52094ca840b
Search_Service_Application_PropertyStoreDB_c119f94bc2ef4ed3982c24c7d4620279
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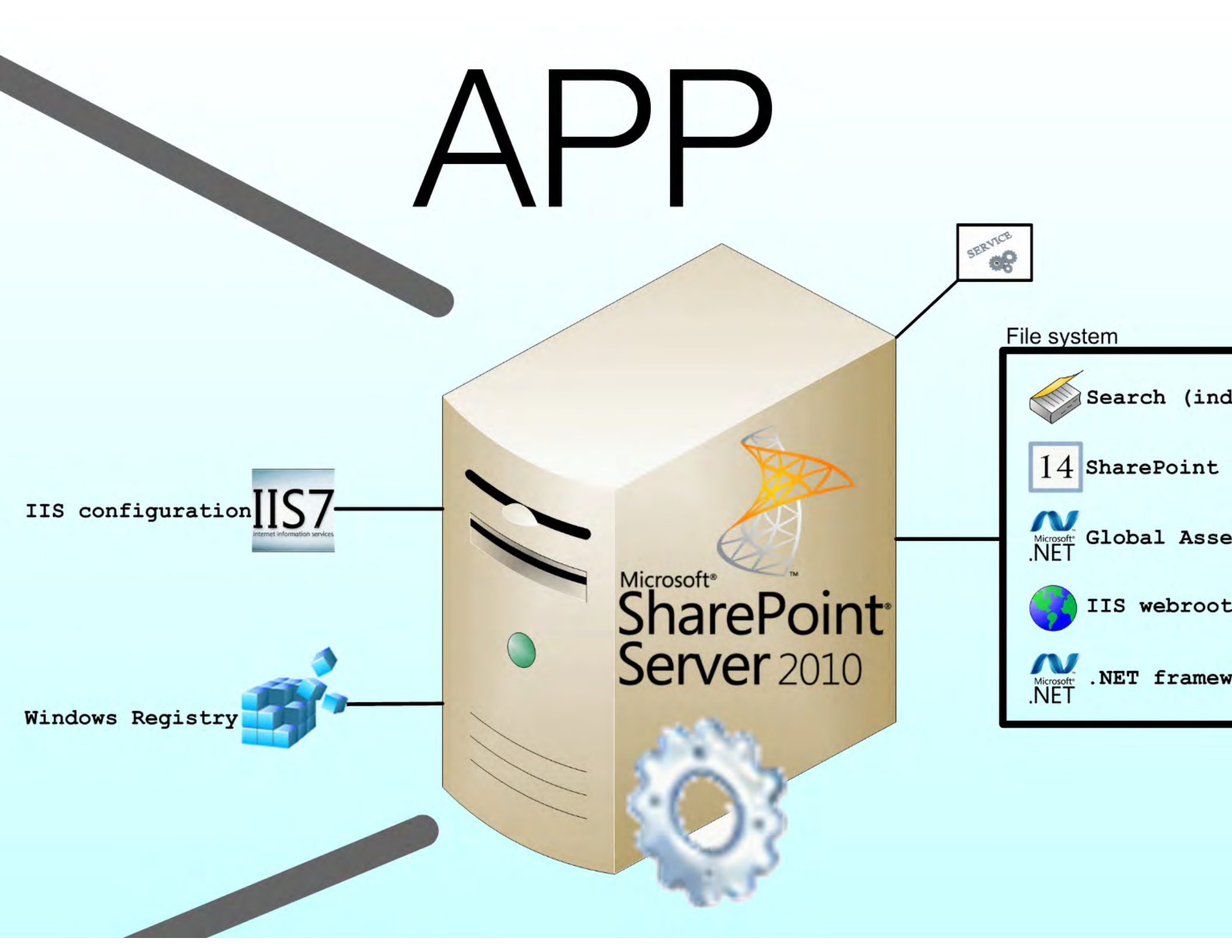
APP
SERVICE
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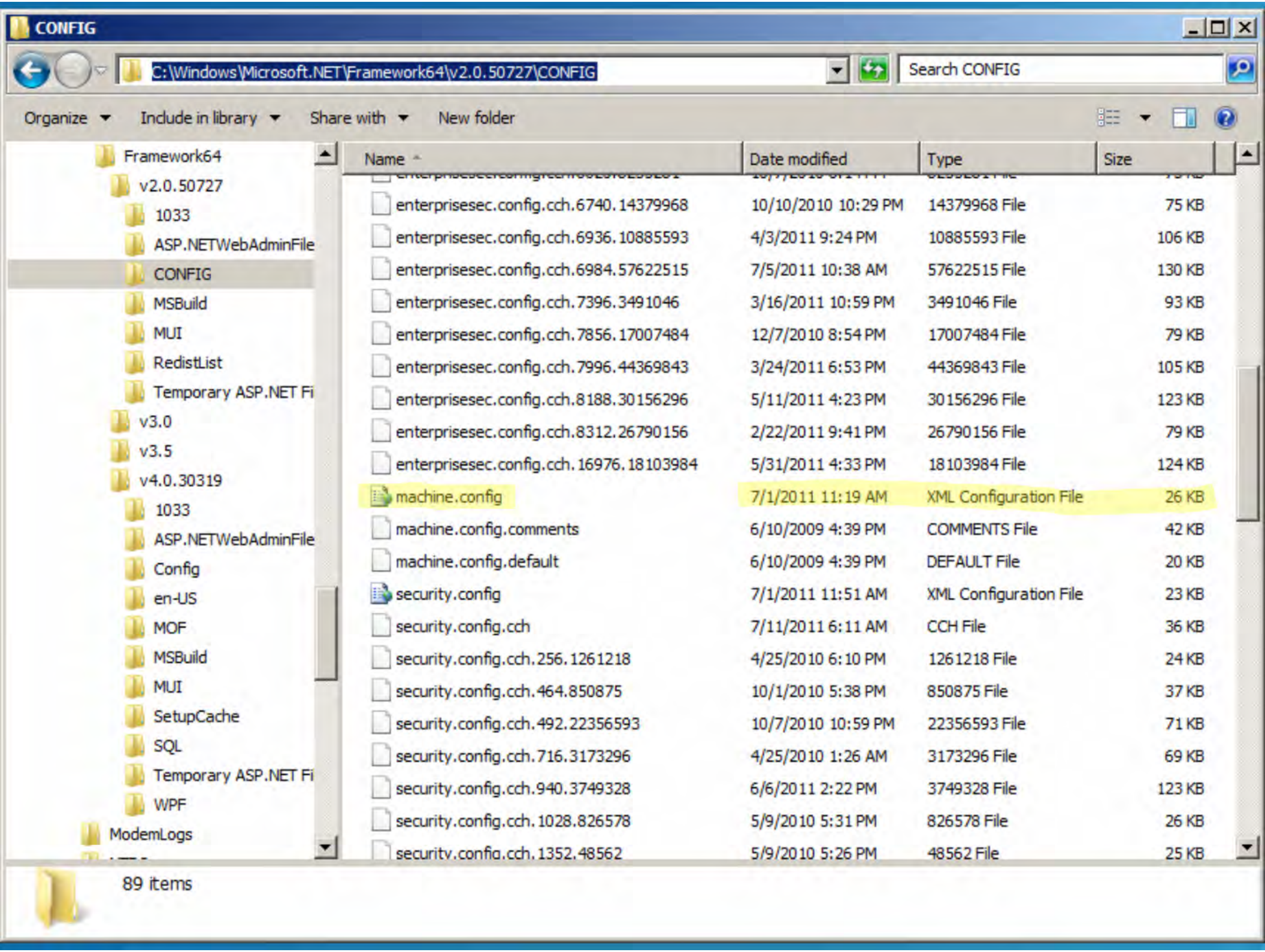
Search (ind
14
SharePoint
Microsoft
.NET
Global Asse
IIS webroot
Microsoft
.NET
.NET framew
IIS configuration
IIS7
internet information services
Windows Registry
Microsoft®
SharePoint®
Server 2010

IIS webroot folders

.NET framework config folders


CONFIG
C:\Windows\Microsoft.NET\Framework64\v2.0.50727\CONFIG
Search CONFIG
Organize
Include in library
Share with
New folder
Framework64
v2.0.50727
1033
ASP.NETWebAdminFile
CONFIG
MSBuild
MUI
RedistList
Temporary ASP.NET Fi
v3.0
v3.5
v4.0.30319
1033
ASP.NETWebAdminFile
Config
en-US
MOF
MSBuild
MUI
SetupCache
SQL
Temporary ASP.NET Fi
WPF
ModemLogs
Name
Date modified
Type
Size
enterprisesec.config.cch.6740.14379968 10/10/2010 10:29 PM 14379968 File 75 KB
enterprisesec.config.cch.6936.10885593 4/3/2011 9:24 PM 10885593 File 106 KB
enterprisesec.config.cch.6984.57622515 7/5/2011 10:38 AM 57622515 File 130 KB
enterprisesec.config.cch.7396.3491046 3/16/2011 10:59 PM 3491046 File 93 KB
enterprisesec.config.cch.7856.17007484 12/7/2010 8:54 PM 17007484 File 79 KB
enterprisesec.config.cch.7996.44369843 3/24/2011 6:53 PM 44369843 File 105 KB
enterprisesec.config.cch.8188.30156296 5/11/2011 4:23 PM 30156296 File 123 KB
enterprisesec.config.cch.8312.26790156 2/22/2011 9:41 PM 26790156 File 79 KB
enterprisesec.config.cch.16976.18103984 5/31/2011 4:33 PM 18103984 File 124 KB
machine.config 7/1/2011 11:19 AM XML Configuration File 26 KB
machine.config.comments 6/10/2009 4:39 PM COMMENTS File 42 KB
machine.config.default 6/10/2009 4:39 PM DEFAULT File 20 KB
security.config 7/1/2011 11:51 AM XML Configuration File 23 KB
security.config.cch 7/11/2011 6:11 AM CCH File 36 KB
security.config.cch.256.1261218 4/25/2010 6:10 PM 1261218 File 24 KB
security.config.cch.464.850875 10/1/2010 5:38 PM 850875 File 37 KB
security.config.cch.492.22356593 10/7/2010 10:59 PM 22356593 File 71 KB
security.config.cch.716.3173296 4/25/2010 1:26 AM 3173296 File 69 KB
security.config.cch.940.3749328 6/6/2011 2:22 PM 3749328 File 123 KB
security.config.cch.1028.826578 5/9/2010 5:31 PM 826578 File 26 KB
security.config.cch.1352.48562 5/9/2010 5:26 PM 48562 File 25 KB
89 items

.NET Framework config

- System-wide configuration files and defaults for .NET applications

Where are they?

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Protection

- File system backup, documentation

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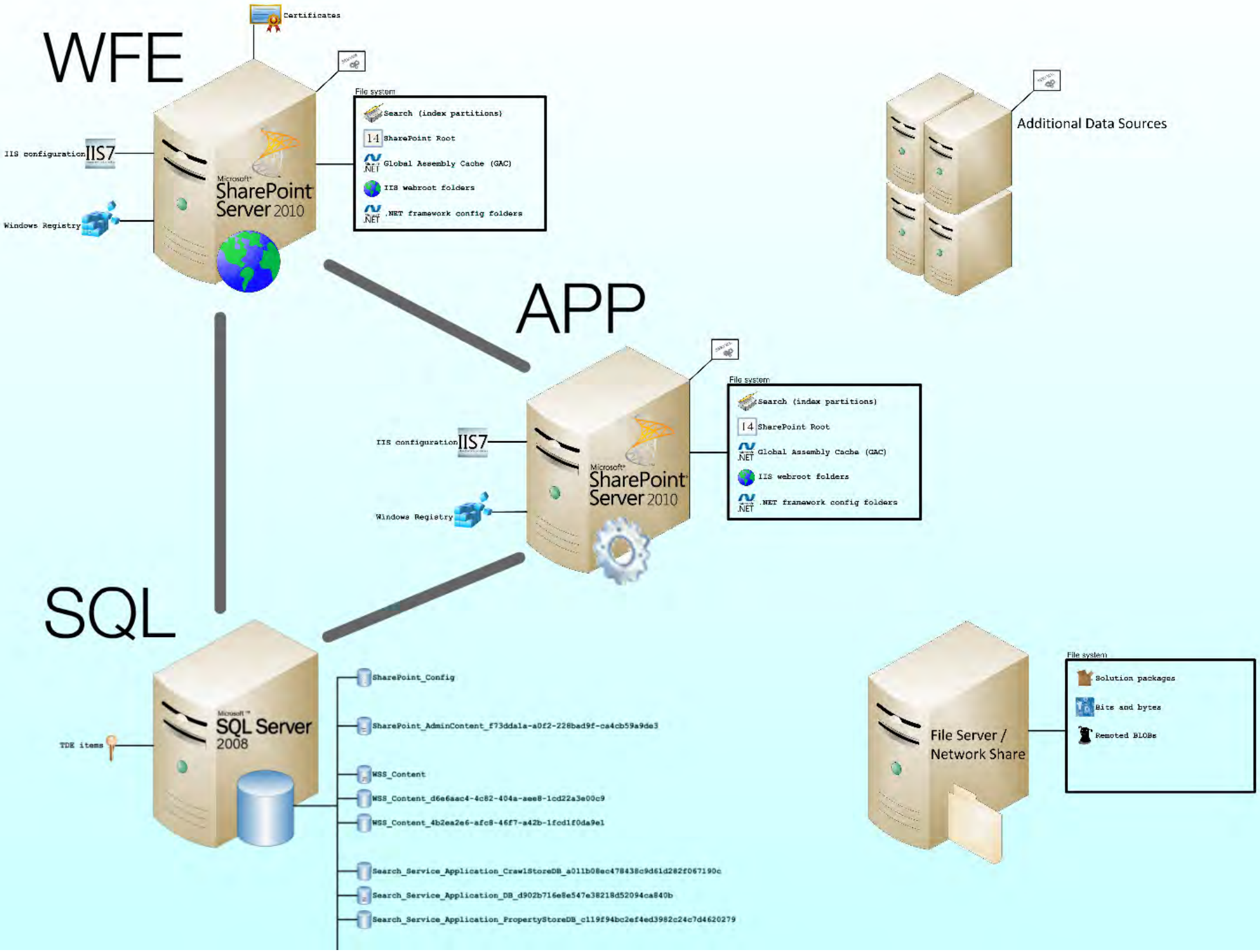
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WSS_Content_d6e6aac4-4c82-404a-aee8-1cd22a3e00c9
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Search_Service_Application_CrawlStoreDB_a011b08ec478438c9d61d282f067190c
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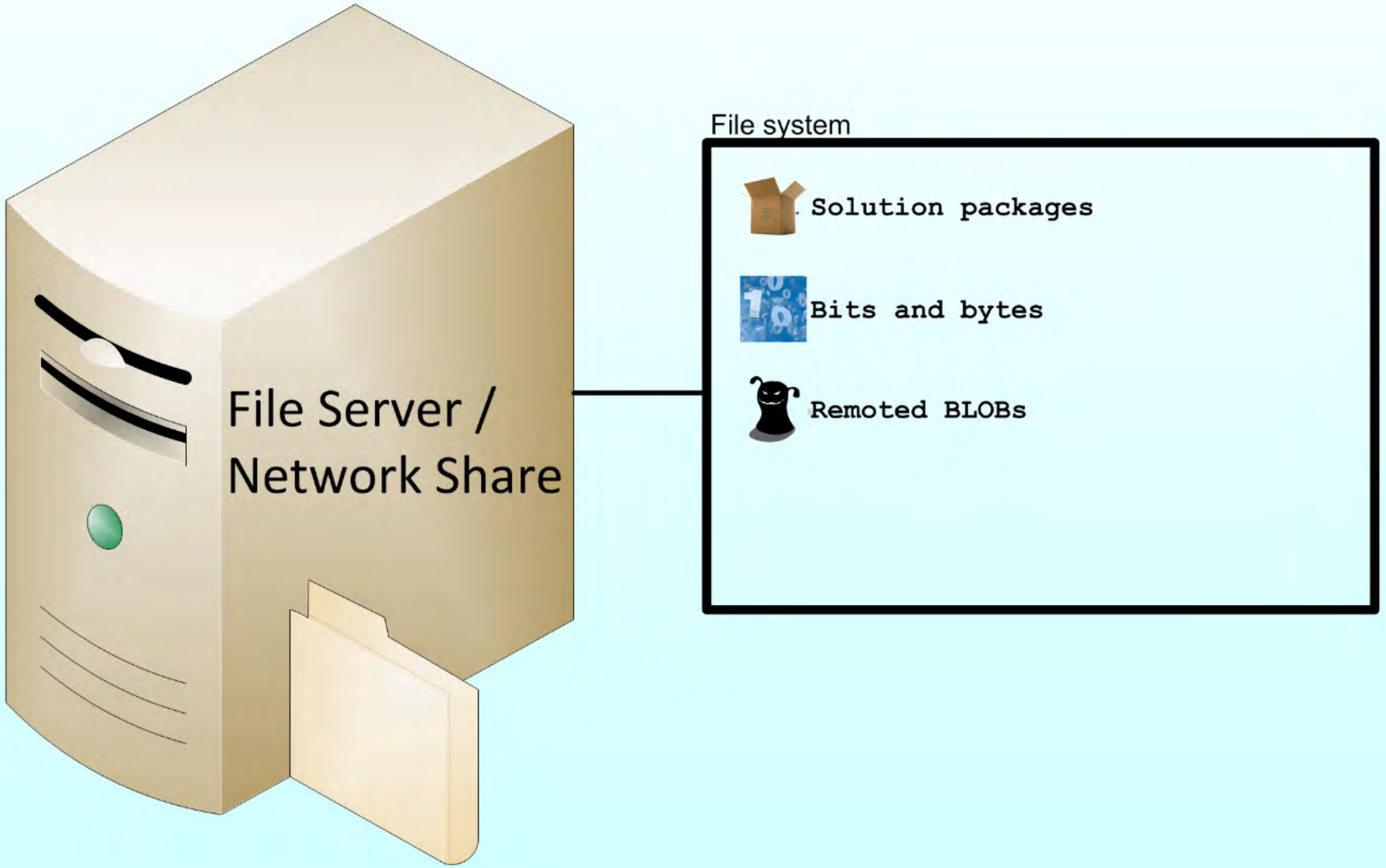
File Server / Network Share
File system
Solution packages
Bits and bytes
Remoted BLOBs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Protection

- Check RBS provider guidance.
- For file share RBS storage, backup of RBS store commonly follows content DB backup

SQL Server TDE

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- Real-time encryption/decryption of SQL Server data and log files

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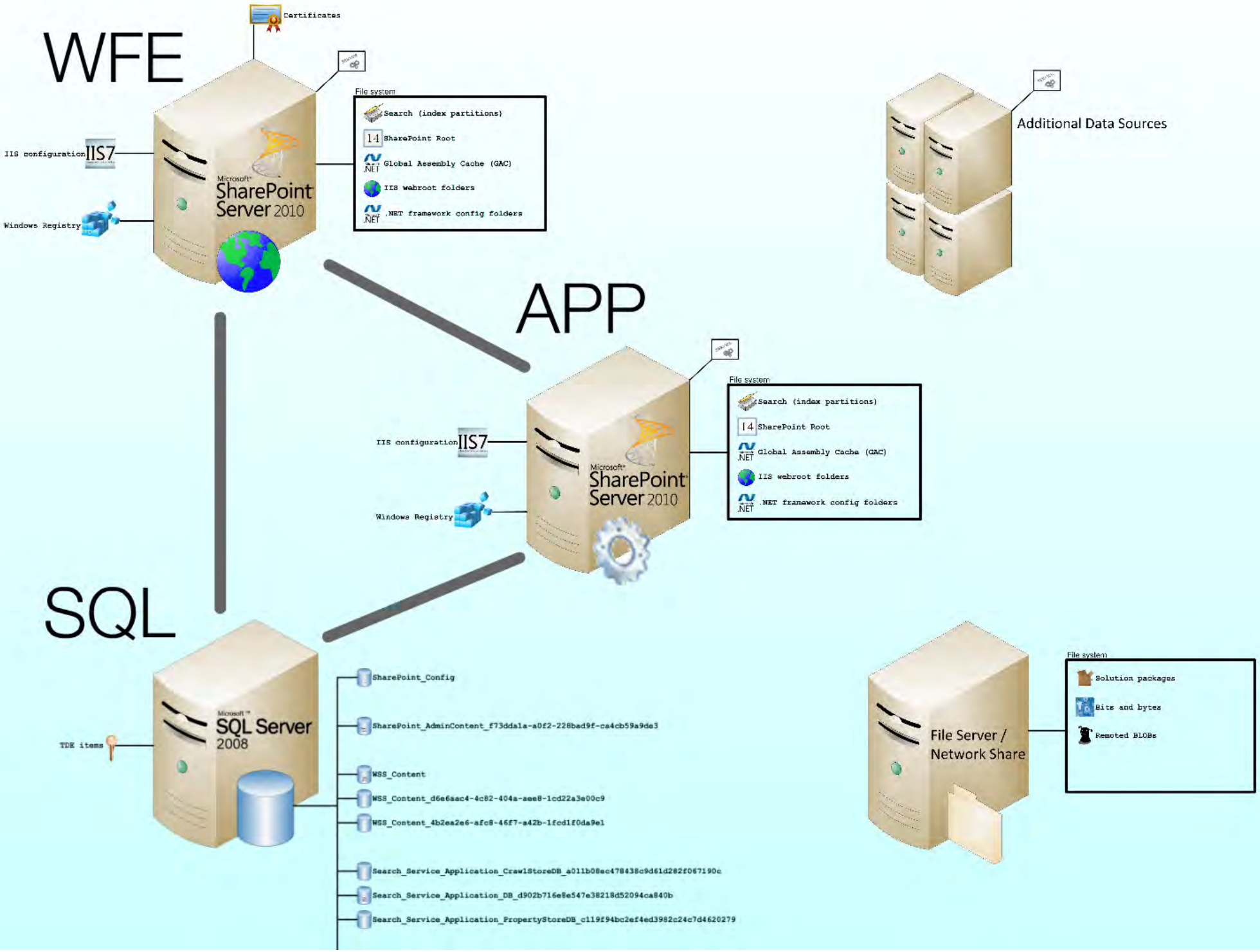
- SQL Server master DB or EKM module
- EKM = extensible key management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SharePoint_Config
SharePoint_AdminContent_f73ddala-a0f2-228bad9f-ca4cb59a9de3
WSS_Content
WSS_Content_d6e6aac4-4c82-404a-aee8-1cd22a3e00c9
WSS_Content_4b2ea2e6-afc8-46f7-a42b-1fcd1f0da9e1
Search_Service_Application_CrawlStoreDB_a011b08ec478438c9d61d282f067190c
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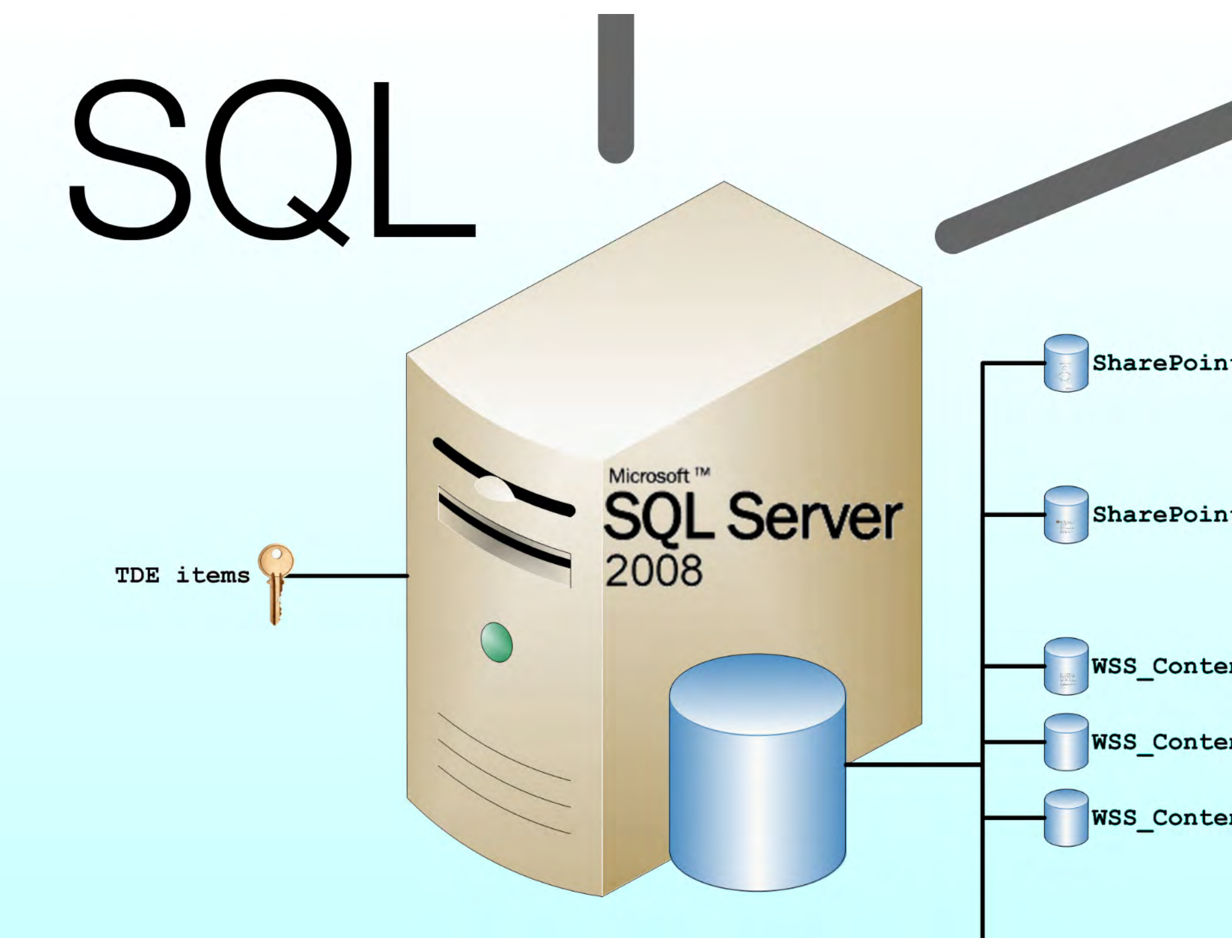
SQL
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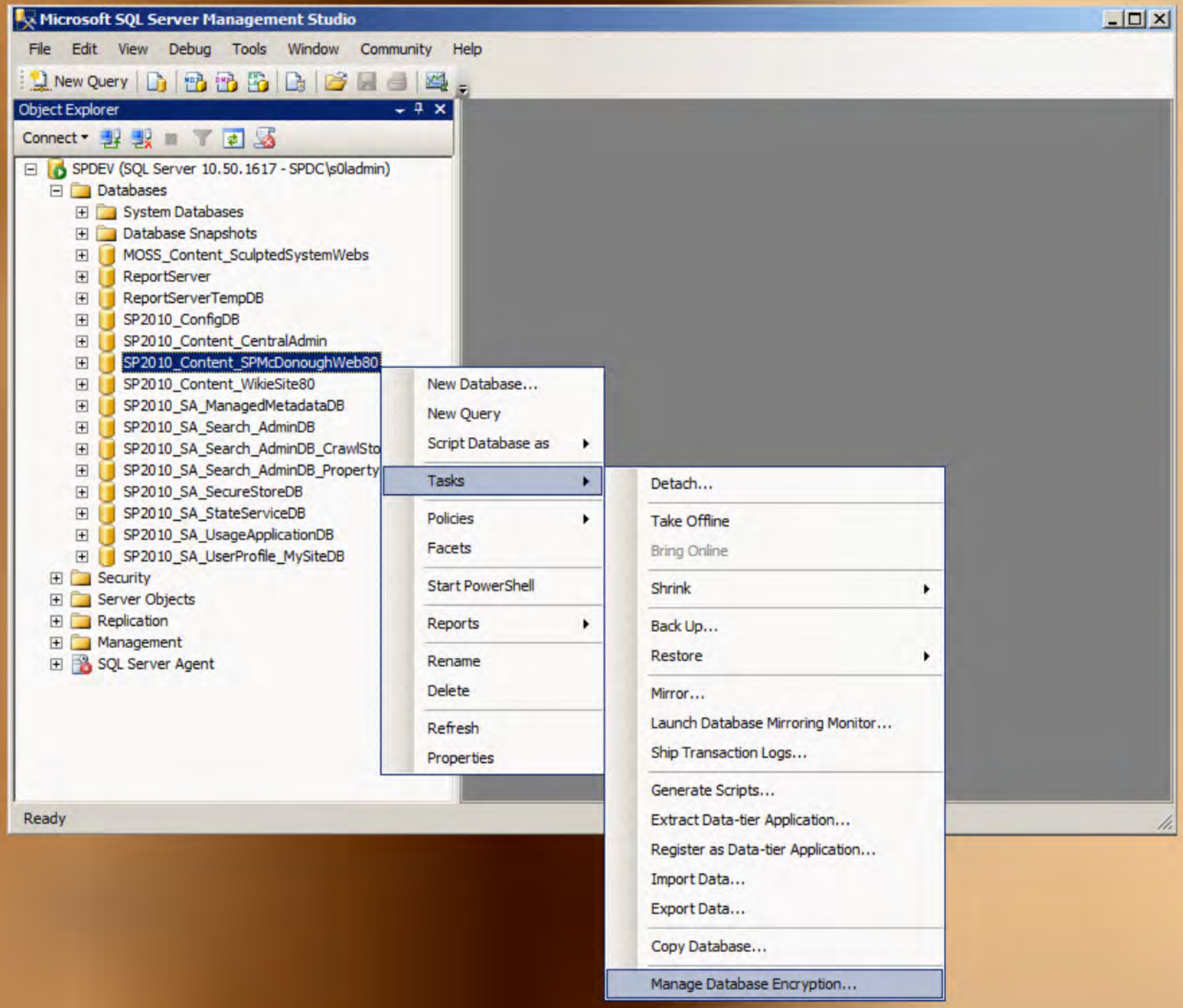
TDE items


Microsoft SQL Server Management Studio
File Edit View Debug Tools Window Community Help
New Query
Object Explorer
Connect
SPDEV (SQL Server 10.50.1617 - SPDC\s0ladmin)
Databases
System Databases
Database Snapshots
MOSS_Content_SculptedSystemWebs
ReportServer
ReportServerTempDB
SP2010_ConfigDB
SP2010_Content_CentralAdmin
SP2010_Content_SPMcDonoughWeb80
SP2010_Content_WikieSite80
SP2010_SA_ManagedMetadataDB
SP2010_SA_Search_AdminDB
SP2010_SA_Search_AdminDB_CrawlSto
SP2010_SA_Search_AdminDB_Property
SP2010_SA_SecureStoreDB
SP2010_SA_StateServiceDB
SP2010_SA_UsageApplicationDB
SP2010_SA_UserProfile_MySiteDB
Security
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Replication
Management
SQL Server Agent
New Database...
New Query
Script Database as
Tasks
Policies
Facets
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Reports
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Detach...
Take Offline
Bring Online
Shrink
Back Up...
Restore
Mirror...
Launch Database Mirroring Monitor...
Ship Transaction Logs...
Generate Scripts...
Extract Data-tier Application...
Register as Data-tier Application...
Import Data...
Export Data...
Copy Database...
Manage Database Encryption...
Ready

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Protection

- Backup of certificate (from master DB) or asymmetric key (from EKM) yields 2 files
- Save files for later recovery or DB transport

External data sources

- Data that is consumed (and presented) by SharePoint but resident elsewhere

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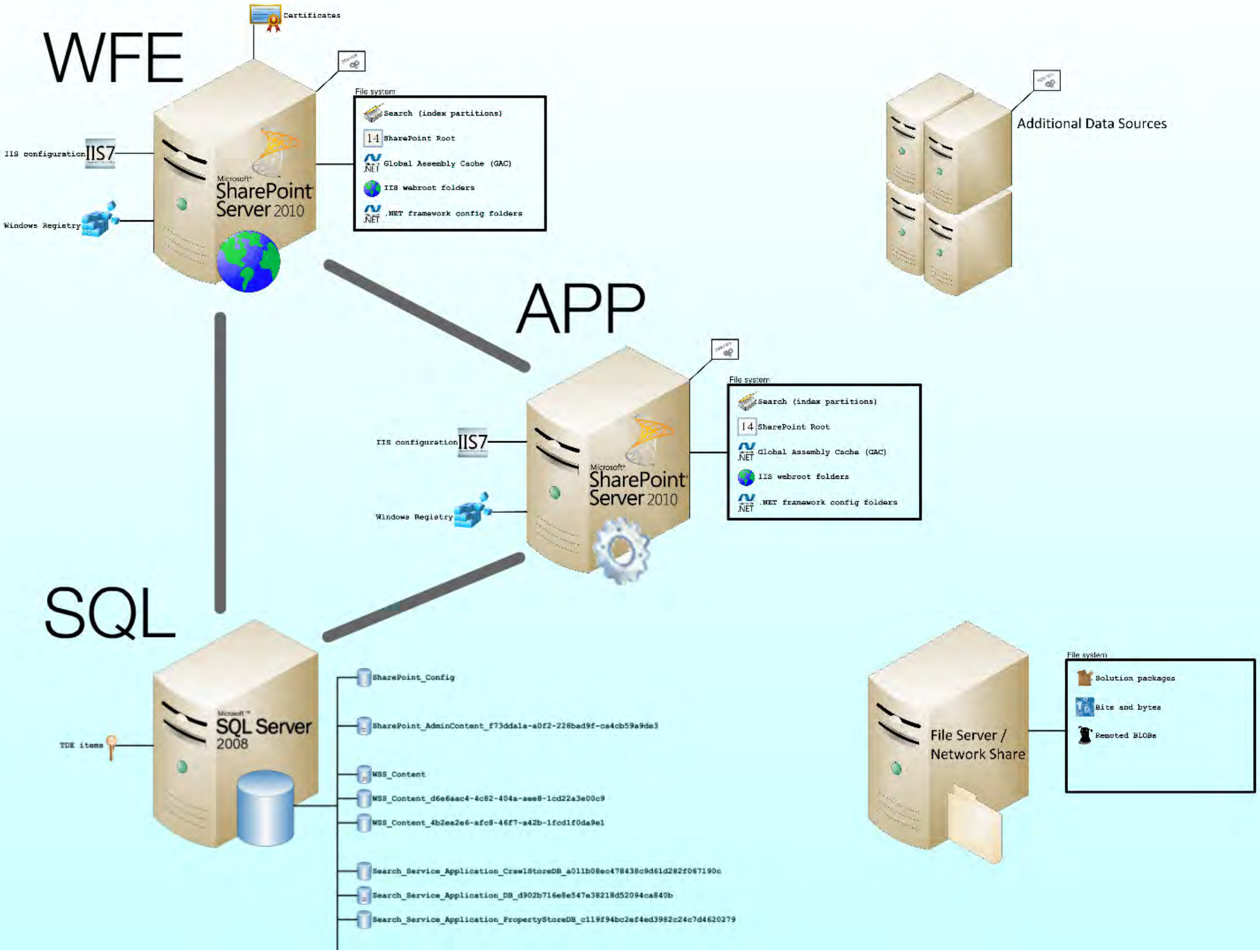
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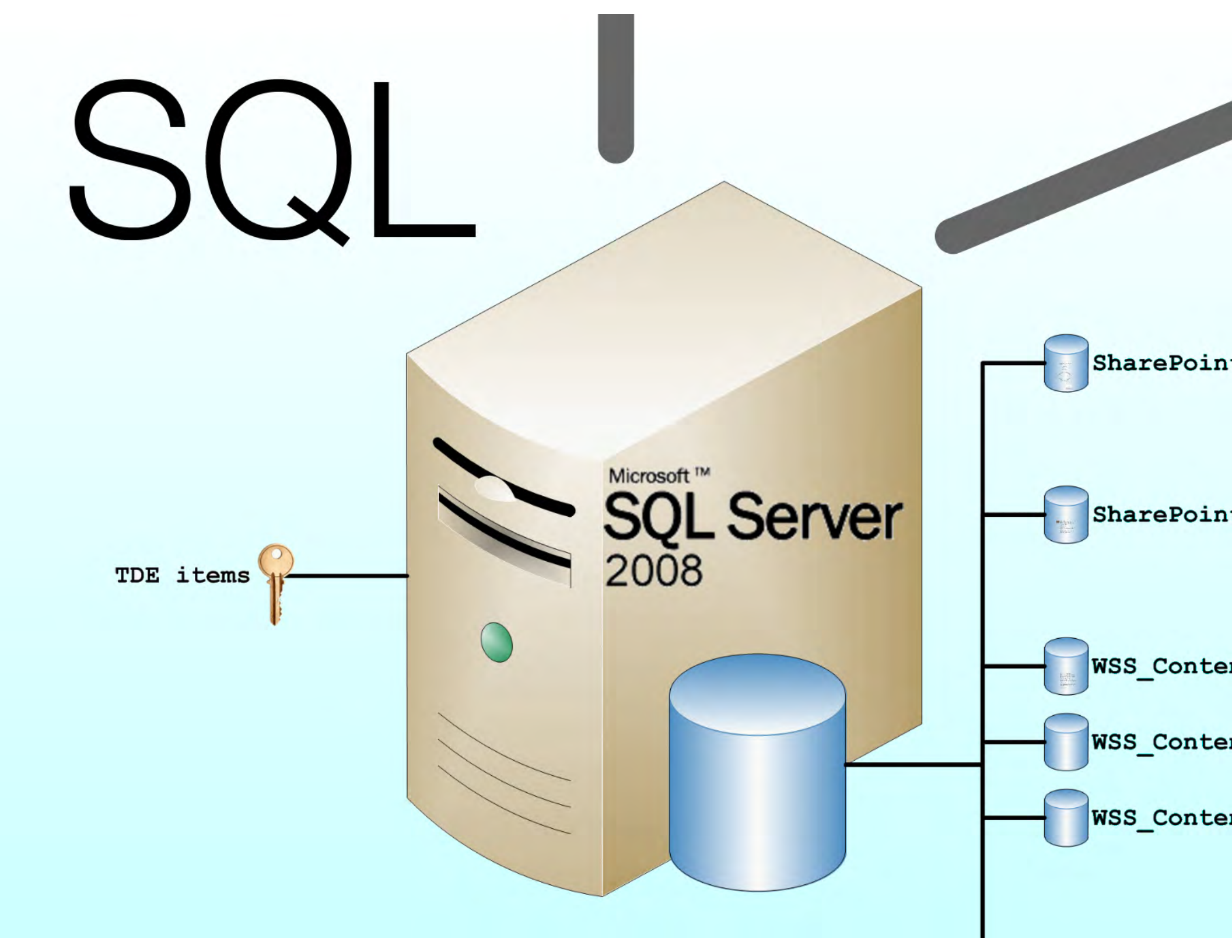
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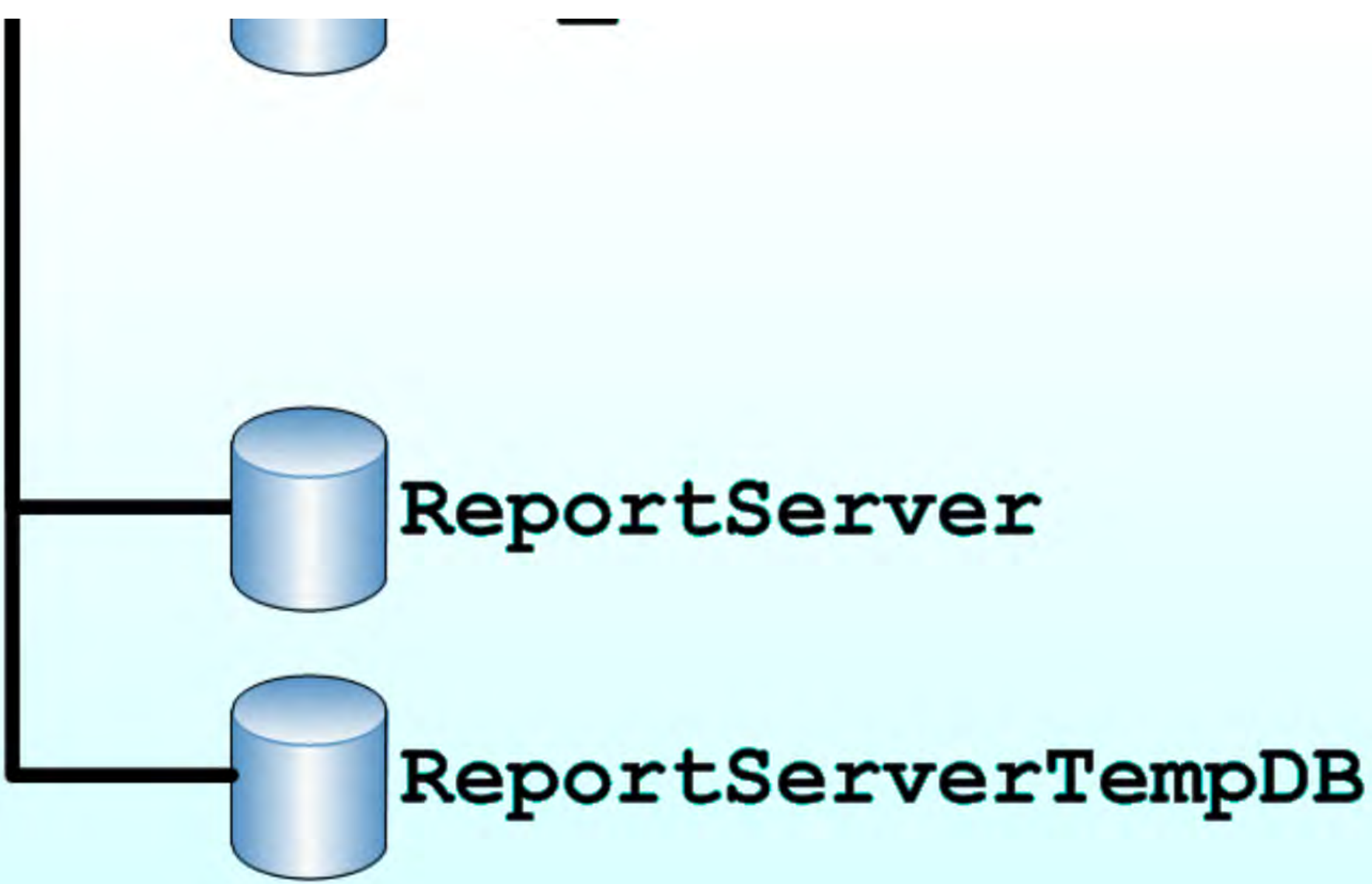
ReportServer
ReportServerTempDB

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Protection

- Varies by data source and platform

Edge cases and esoteric targets

sometimes confused with the dark arts …

- .NET framework config folders
- Remote BLOB storage (RBS)
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- External data sources
- Single server farm …

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If you have an all-in-one farm and want to maximize usage of built-in platform tools:

- Use built-in Windows Server Backup (2008, 2008R2)
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Core SharePoint targets

aka, "the meat and potatoes"

- Content databases
- Central Admin content DB
- Farm Configuration database
- Service Applications / SSPs
- Search

Related targets

"important to remember"

- Solution packages
- SharePoint Root
- IIS Configuration
- Certificates
- IIS web root
- GAC
- Registry
- Bits and bytes

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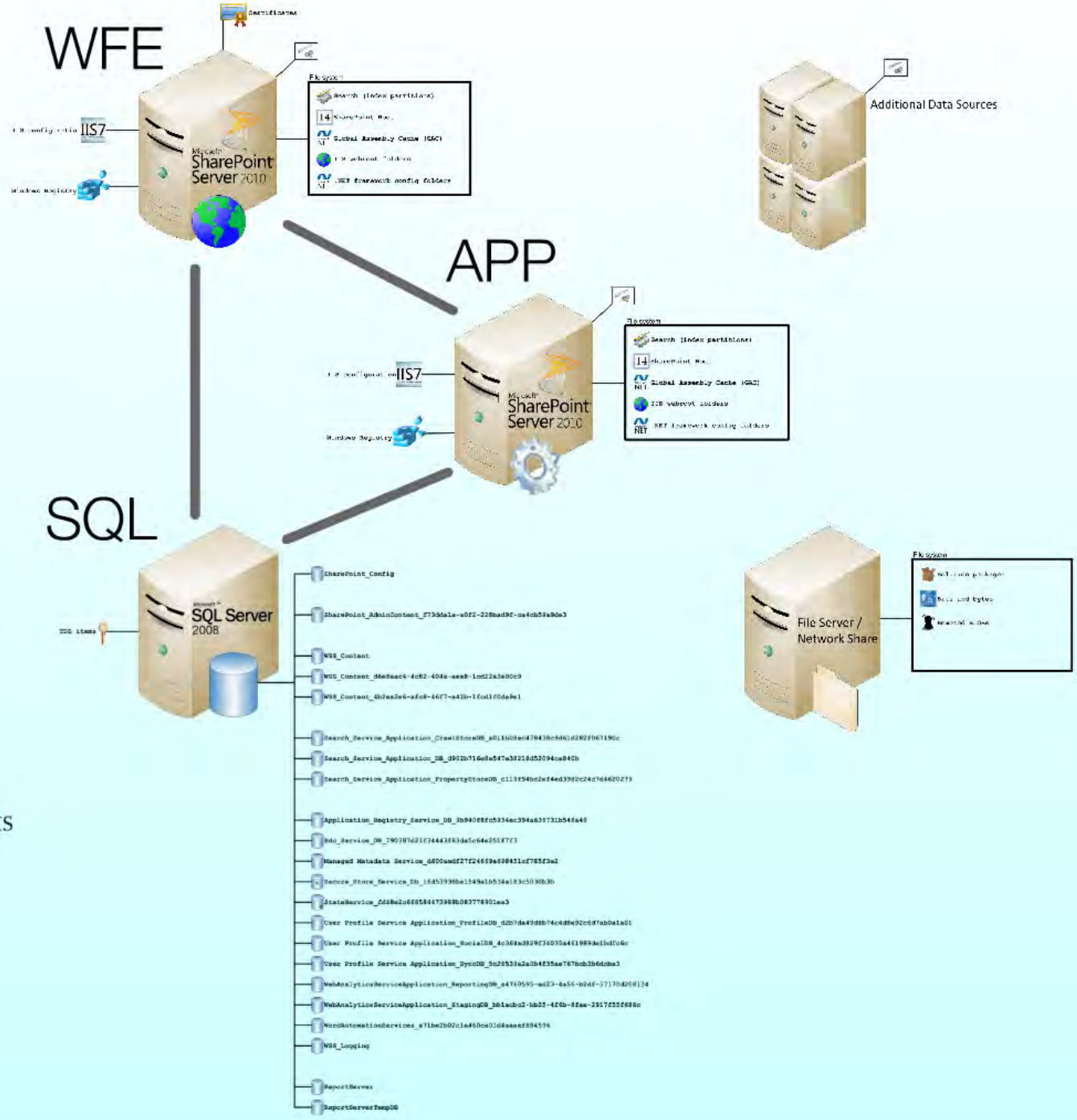

Wrap-up

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- Understand how your SharePoint environment is used
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Protect your (content) databases!

- Most important targets in your farm
- Critical protection takes minutes. Just invest a little time.

References

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- http://www.toddklindt.com/blog/Lists/Posts/Post.aspx?ID=248

Finding me

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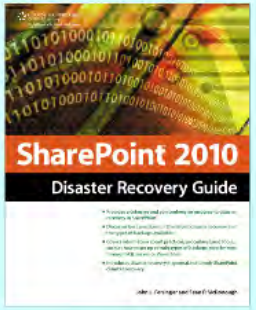
Twitter: @spmcdonough

The SharePoint 2007 Disaster Recovery Guide
http://tinyurl.com/SPDRGuide2007



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