Best Practices

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# Best Practices Dashboard

The following table lists all the best practices along with warnings and errors that you should address.

**Farm Name:** Contoso Farm
**Date:** 3/1/2019 4:00 AM

|  |  |  |
| --- | --- | --- |
| Report | Warnings | Errors |
| **Databases** |
|  Content Database Autogrowth | 0 | 16 |
|  **TempDB** | 0 | 8 |
|  TempDB Response Times | 0 | 6 |
|  TempDB Size | 0 | 2 |
|  TempDB Files | 0 | 0 |
|  TempDB Files Configuration | 0 | 0 |
|  TempDB Recovery Model | 0 | 0 |
|  Content Database Capacity | 1 | 6 |
|  Disk Allocation Size | 0 | 4 |
|  SQL Server Memory | 0 | 4 |
|  Max Degree of Parallelism | 1 | 0 |
|  Content Database Capacity by Total Size | 0 | 0 |
|  Database Files | 0 | 0 |
|  **ModelDB** | 0 | 0 |
|  ModelDB Files Autogrowth | 0 | 0 |
|  ModelDB Files Initial Size | 0 | 0 |
|  ModelDB Recovery Model | 0 | 0 |
|  SQL Alias | 0 | 0 |
| **Hardware Requirements** |
|  Free Disk Space | 2 | 16 |
|  Free Disk Space only on Local Disks | 0 | 6 |
|  RAM | 0 | 6 |
| **Maintenance** |
|  **Backup** | 0 | 17 |
|  Content Database Backups | 0 | 8 |
|  Content Database Backups Custom | 0 | 8 |
|  Farm Backup History | 0 | 1 |
|  Farm Backup Configured | 0 | 0 |
|  **Misc** | 0 | 2 |
|  Farm Accounts Used Interactively | 0 | 2 |
| **Configuration** |
|  **Servers** | 8 | 5 |
|  Loopback Disabled | 8 | 4 |
|  Expired Certificates | 0 | 1 |
|  MinRole Compliance | 0 | 0 |
|  **Distributed Cache** | 0 | 2 |
|  Cache Size | 0 | 1 |
|  DC Collocation Compliance | 0 | 1 |
|  AppFabric Patched | 0 | 0 |
|  Cache Cluster State | 0 | 0 |
|  Cache Running | 0 | 0 |
|  **Security** | 0 | 1 |
|  Farm Account is not Local Admin | 0 | 1 |
|  Office Web Apps Https | 0 | 0 |
|  **App Configuration** | 0 | 0 |
|  App Services Configured | 0 | 0 |
|  Apps Configured | 0 | 0 |
|  **Solutions** | 0 | 0 |
|  Solution Assembly Deployment Valid | 0 | 0 |

# Configuration

## App Configuration

### App Services Configured

In order to use SharePoint Apps, SharePoint needs be properly configured to run Apps.
[Learn more...](https://www.syskit.com/_app-links/app-services-configured/)

Started:  value Is True else

| Service | Started |
| --- | --- |
| App Management Service |  | True |
| Microsoft SharePoint Foundation Subscription Settings Service |  | True |
| App Management Service Application |  | True |
| App Management Service Application Proxy |  | True |
| Microsoft SharePoint Foundation Subscription Settings Service Application |  | True |
| Microsoft SharePoint Foundation Subscription Settings Service Application Proxy |  | True |

### Apps Configured

App Domain and App Prefix should both be set, with the App Domain being different from the SharePoint domain.
[Learn more...](https://www.syskit.com/_app-links/apps-configured/)

Configured:  value Is True else

| Property | Configured |
| --- | --- |
| App Domain |  | True |
| App Prefix |  | True |

## Distributed Cache

### Cache Running

The Distributed Cache should be up and running in the farm to get the maximum performance out of SharePoint. Use the Central Administration and the Distributed Cache PowerShell cmdlets to configure it properly.
[Learn more...](https://www.syskit.com/_app-links/cache-running/)

Status:  value Contains (Up) else

| Host | Status |
| --- | --- |
| SP1.contoso.local |  | Up |

### AppFabric Patched

After AppFabric and SharePoint are installed on the server, AppFabric will continue to be updated independently from SharePoint. SharePoint updates do not update the AppFabric software running on the SharePoint 2013 server.
[Learn more...](https://www.syskit.com/_app-links/appfabric-patched/)

Recommended Version Installed:  value Is True else

| Server | Your AppFabric Version | Minimum Recommended AppFabric Version | Recommended Version Installed |
| --- | --- | --- | --- |
| SPDOCKIT-D | Windows Server AppFabric v1.1 CU7 | Windows Server AppFabric v1.1 CU7 |  | True |
| SP1 | Windows Server AppFabric v1.1 CU7 | Windows Server AppFabric v1.1 CU7 |  | True |
| SPDOCKIT-H | Windows Server AppFabric v1.1 CU7 | Windows Server AppFabric v1.1 CU7 |  | True |
| SP2 | Windows Server AppFabric v1.1 CU7 | Windows Server AppFabric v1.1 CU7 |  | True |

### Cache Cluster State

Cache cluster should be in a healthy state.
[Learn more...](https://www.syskit.com/_app-links/cache-cluster-state/)

Healthy [%]:  value Does Not Equal (100) else

| Cluster Name | Healthy [%] | Under Reconfiguration [%] | Not Primary [%] | Inadequate Secondaries [%] | Throttled [%] |
| --- | --- | --- | --- | --- | --- |
| **Host: SP1.contoso.local** |
| DistributedSearchCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedServerToAppServerAccessTokenCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedLogonTokenCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedUnifiedGroupsCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedSecurityTrimmingCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedSharedWithUserCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedHealthScoreCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedBouncerCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedResourceTallyCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedAccessCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedActivityFeedLMTCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedFileLockThrottlerCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedActivityFeedCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedDefaultCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |
| DistributedViewStateCache\_6ca79f76-6103-43e1-a08d-abe45df0bf22 |  | 100 | 0 | 0 | 0 | 0 |

### Cache Size

Microsoft recommends that the cache size of the Distributed Cache service is set to 10% for servers in collocated mode or per the following formula for dedicated servers: (total physical memory on server - 2 GB for other processes and services that are running on the cache host)/2. Deviation of 10% is acceptable. Maximum memory allocation is 16 GB. You must ensure that the memory allocation assigned to the Distributed Cache service is the same on all servers that are running the Distributed Cache service.
[Learn more...](https://www.syskit.com/_app-links/cache-size/)

| Host | Mode | Recommended Cache Size [MB] | Actual Cache Size [MB] | Within Bounds | Same On All Servers |
| --- | --- | --- | --- | --- | --- |
| SP1.contoso.local | Collocated | 819 | 409 |  | False |  | True |

### DC Collocation Compliance

Microsoft does not recommend that any Search, Excel and Project Server services or applications run on the same server as the Distributed Cache service.
[Learn more...](https://www.syskit.com/_app-links/distributed-cache-collocated-mode-services/)

| Host | Services That Should Not Run with DC |
| --- | --- |
| SP1 |  | Search Administration Web ServiceSearch Host Controller ServiceSearch Query and Site Settings ServiceSharePoint Server Search |

## Security

### Farm Account is not Local Admin

The Farm account should not be in the Local Administrators group on any of the servers in the farm. This presents a security vulnerability.
[Learn more...](https://www.syskit.com/_app-links/farm-account-is-not-local-admin/)

Is Farm Account Local Admin:  value Is True else

| Server | Is Farm Account Local Admin |
| --- | --- |
| SPDOCKIT-D |  | False |
| SP1 |  | True |
| SPDOCKIT-H |  | False |
| SP2 |  | False |
| SQL16-AO2 |  | False |
| SQL16-AO1 |  | False |

### Office Web Apps Https

HTTP is generally recommended only for test environments. In production environments, the more secure HTTPS protocol is the better choice.
[Learn more...](https://www.syskit.com/_app-links/office-web-apps-https/)

Office Web Apps Zone:  value Contains (HTTPS) else
Applies to rows with a condition: Office Web Apps with a specific (Is True ) value

|  |  |
| --- | --- |
| Office Web Apps | False |
| Office Web Apps Zone |  |

## Servers

### Loopback Disabled

Loopback check should be disabled on SharePoint servers in order to ease access to local SharePoint web applications using their FQDN. It is recommended that you use the preferred method to achieve this on production servers.
[Learn more...](https://www.syskit.com/_app-links/loopback-disabled/)

| Host | FQDN | SPDOCKIT-D | SP1 | SPDOCKIT-H |
| --- | --- | --- | --- | --- |
| sp1 | sp1.contoso.local |  | Enabled |  | Disabled with Less Recommended Method |  | Disabled with Less Recommended Method |
| sp16portal.contoso.com | sp16portal.contoso.com.contoso.local |  | Enabled |  | Disabled with Less Recommended Method |  | Disabled with Less Recommended Method |
| sp16portal.contoso.local | sp16portal.contoso.local.contoso.local |  | Enabled |  | Disabled with Less Recommended Method |  | Disabled with Less Recommended Method |
| sp16site.contoso.com | sp16site.contoso.com.contoso.local |  | Enabled |  | Disabled with Less Recommended Method |  | Disabled with Less Recommended Method |

### MinRole Compliance

Displays the services on servers that are not compliant with their server's given MinRole.
[Learn more...](https://www.syskit.com/_app-links/minrole-compliance/)

 The servers in your farm are MinRole compliant.

### Expired Certificates

Warns you if a certificate has expired or is going to expire soon.
[Learn more...](https://www.syskit.com/_app-links/expired-certificates/)

| Issued To | Issued By | Subject Alternative Name | Valid From | Valid To | Friendly Name | Thumbprint | Status | Expires in [days] |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Server Name: SP1** |
| SP1.contoso.local | SP1.contoso.local | <None> | 6/16/2016 10:39:23 AM | 6/16/2017 2:00:00 AM | SSLforSharePoint | B2FCDFDD740190E6915EDDE1DE3F23C62F308308 | Expired |  | -623 |

## Solutions

### Solution Assembly Deployment Valid

Assemblies deployed on SharePoint should match the ones in the solution file. Manually updating the files on the hard drive is not recommended.
[Learn more...](https://www.syskit.com/_app-links/solution-assembly-deployment-valid/)

| Target | Server | Web Application | Zone | State |
| --- | --- | --- | --- | --- |
| **Solution: fbaconfigfeature.wsp** |
| **Assembly: FBAConfigFeature.dll** |
| Global Assembly Cache | SPDOCKIT-D |  |  |  | OK |
| Global Assembly Cache | SP1 |  |  |  | OK |
| Global Assembly Cache | SPDOCKIT-H |  |  |  | OK |
| **Assembly: FBAConfigWriter.dll** |
| Global Assembly Cache | SPDOCKIT-D |  |  |  | OK |
| Global Assembly Cache | SP1 |  |  |  | OK |
| Global Assembly Cache | SPDOCKIT-H |  |  |  | OK |
| **Solution: visigo.sharepoint.formsbasedauthentication.wsp** |
| **Assembly: Visigo.Sharepoint.FormsBasedAuthentication.dll** |
| Global Assembly Cache | SPDOCKIT-D |  |  |  | OK |
| Global Assembly Cache | SP1 |  |  |  | OK |
| Global Assembly Cache | SPDOCKIT-H |  |  |  | OK |

# Databases

## ModelDB

### ModelDB Recovery Model

The modeldb's recovery model should be set to FULL.
[Learn more...](https://www.syskit.com/_app-links/modeldb-recovery-model/)

Recovery Model:  value Equals (FULL) else

| SQL Server | Recovery Model |
| --- | --- |
| SQL16-AO1 |  | FULL |
| SQL16-AO2 |  | FULL |

### ModelDB Files Initial Size

The modelDB’s initial size should be set to a value larger than the default. Don’t use the default settings. Also, these values should be set in accordance with your environment.
[Learn more...](https://www.syskit.com/_app-links/modeldb-files-initial-size/)

| Type | Initial Size [MB] |
| --- | --- |
| **SQL Server: SQL16-AO1** |
| Rows Data |  | 8 |
| Log |  | 136 |
| **SQL Server: SQL16-AO2** |
| Rows Data |  | 8 |
| Log |  | 8 |

### ModelDB Files Autogrowth

The modelDB’s autogrowth should be in megabytes and set to a value larger than the default. Don’t use the default settings. Also, these values should be set in accordance with your environment.
[Learn more...](https://www.syskit.com/_app-links/modeldb-files-autogrowth/)

| Type | File Growth Type | File Growth Value |
| --- | --- | --- |
| **SQL Server: SQL16-AO1** |
| Rows Data |  | Megabytes |  | 64 |
| Log |  | Megabytes |  | 64 |
| **SQL Server: SQL16-AO2** |
| Rows Data |  | Megabytes |  | 64 |
| Log |  | Megabytes |  | 64 |

## TempDB

### TempDB Files

Each tempdb file should be on a separate drive from the SQL Server binaries, database data, and log files.
[Learn more...](https://www.syskit.com/_app-links/tempdb-files/)

| TempDB File | On Separate Drive | Conflicting Object | Conflicting File |
| --- | --- | --- | --- |
| **SQL Server: SQL16-AO1** |
| F:\SQL\_Temp\tempdb.mdf |  | True |  |  |
| G:\SQL\_Temp\tempdb\_mssql\_2.ndf |  | True |  |  |
| H:\SQL\_Temp\tempdb\_mssql\_3.ndf |  | True |  |  |
| I:\SQL\_Temp\tempdb\_mssql\_4.ndf |  | True |  |  |
| **SQL Server: SQL16-AO2** |
| F:\SQL\_TempDB\tempdb.mdf |  | True |  |  |
| G:\SQL\_TempDB\tempdb\_mssql\_2.ndf |  | True |  |  |
| H:\SQL\_TempDB\tempdb\_mssql\_3.ndf |  | True |  |  |
| I:\SQL\_TempDB\tempdb\_mssql\_4.ndf |  | True |  |  |

### TempDB Size

The size of tempdb should be at least 10% of the largest content database in the farm.
[Learn more...](https://www.syskit.com/_app-links/tempdb-size/)

Size [MB]: >= 973.369

| SQL Server | Size [MB] |
| --- | --- |
| SQL16-AO2 |  | 616 |
| SQL16-AO1 |  | 360 |

### TempDB Files Configuration

The number of tempdb files should be the same as the number of processor cores present on the SQL server. If the number of logical processors is greater than 8, use 8 data files and then, if contention continues, increase the number of data files by multiples of 4. Additionally, all file sizes should be equal.
[Learn more...](https://www.syskit.com/_app-links/tempdb-files-configuration/)

| SQL Server | Number of Files | Number of Processor Cores on Server | Number of Files Valid | All Files the Equal Size |
| --- | --- | --- | --- | --- |
| SQL16-AO2 | 4 | 4 |  | True |  | True |
| SQL16-AO1 | 4 | 4 |  | True |  | True |

### TempDB Response Times

Write response times for tempdb should be less than 20 ms and read response times should be less than 20 ms.
[Learn more...](https://www.syskit.com/_app-links/tempdb-response-times/)

Write Response Time: < 20
Read Response Time: < 20

| SQL Server | File Path | Write Response Time | Read Response Time |
| --- | --- | --- | --- |
| SQL16-AO1 | F:\SQL\_Temp\tempdb.mdf |  | 19.89 |  | 4.09 |
| SQL16-AO1 | G:\SQL\_Temp\tempdb\_mssql\_2.ndf |  | 34.74 |  | 3.89 |
| SQL16-AO1 | H:\SQL\_Temp\tempdb\_mssql\_3.ndf |  | 35.62 |  | 3.89 |
| SQL16-AO1 | I:\SQL\_Temp\tempdb\_mssql\_4.ndf |  | 35.3 |  | 4.13 |
| SQL16-AO2 | F:\SQL\_TempDB\tempdb.mdf |  | 16.43 |  | 3.31 |
| SQL16-AO2 | G:\SQL\_TempDB\tempdb\_mssql\_2.ndf |  | 29.4 |  | 3.14 |
| SQL16-AO2 | H:\SQL\_TempDB\tempdb\_mssql\_3.ndf |  | 39.74 |  | 2.9 |
| SQL16-AO2 | I:\SQL\_TempDB\tempdb\_mssql\_4.ndf |  | 43.64 |  | 3.8 |

### TempDB Recovery Model

The tempdb's recovery model should be set to SIMPLE.
[Learn more...](https://www.syskit.com/_app-links/tempdb-recovery-model/)

Recovery Model:  value Equals (SIMPLE) else

| SQL Server | Recovery Model |
| --- | --- |
| SQL16-AO1 |  | SIMPLE |
| SQL16-AO2 |  | SIMPLE |

## Max Degree of Parallelism

To ensure optimal performance, we strongly recommend that you set max degree of parallelism (MAXDOP) to 1 on SQL Server instances that host SharePoint Server databases.
[Learn more...](https://www.syskit.com/_app-links/max-degree-of-parallelism/)

| Server | SQL Server | Max Degree of Parallelism |
| --- | --- | --- |
| SQL16-AO1 | Microsoft SQL Server 2016 - Enterprise Edition (64-bit) |  | 1 |
| SQL16-AO2 | Microsoft SQL Server 2016 - Enterprise Edition (64-bit) |  | 0 |

## SQL Alias

To ease maintenance, make sure all your service applications and site collections' content databases are using the configured SQL Server alias.
[Learn more...](https://www.syskit.com/_app-links/sql-alias/)

| Database | Type | Web Application | SQL Server | Using Alias |
| --- | --- | --- | --- | --- |
| SP16Farm\_Content\_CentralAdmin | Content Database | Central Administration | SQL2014-001 |  | True |
| WSS\_Content\_d25f772f3d9e4c59abeb4c5b6a1dd81a | Content Database | SharePoint - SP138712 | SQL2014-001 |  | True |
| SP16Farm\_Content\_Portal | Content Database | Portal Home | SQL2014-001 |  | True |
| WSS\_Content\_Project\_Server | Content Database | Project Server | SQL2014-001 |  | True |
| SP16Farm\_Content\_MySites | Content Database | MySite Host | SQL2014-001 |  | True |
| WSS\_Content\_Internet\_82 | Content Database | SharePoint Internet - 82 | SQL2014-001 |  | True |
| WSS\_Content\_Internet\_PMD | Content Database | SharePoint Internet - 82 | SQL2014-001 |  | True |
| WSS\_Content\_Intranet\_81 | Content Database | SharePoint Intranet - 81 | SQL2014-001 |  | True |
| SP16Farm\_StateService | State |  | SQL2014-001 |  | True |
| SP16Farm\_SecureStore | Secure Store |  | SQL2014-001 |  | True |
| SP16Farm\_WordAutomation | Word Queue |  | SQL2014-001 |  | True |
| SP16Farm\_Social | Social |  | SQL2014-001 |  | True |
| SP16Farm\_Search\_AnalyticsReportingStore | Search Analytics |  | SQL2014-001 |  | True |
| SP16Farm\_BusinessDataCatalog | BCS |  | SQL2014-001 |  | True |
| SP16Farm\_Config | Configuration Database |  | SQL2014-001 |  | True |
| SP16Farm\_PerformancePoint | Performance Point |  | SQL2014-001 |  | True |
| SubscriptionSettingsDatabase\_79e3450c5a6c46299918a24f3f68b599 | Subscription Settings |  | SQL2014-001 |  | True |
| SP16Farm\_Search\_CrawlStore | Crawl |  | SQL2014-001 |  | True |
| App\_Management\_8fd84856-726a-4913-95f5-5446a8a57e40 | App Management Database |  | SQL2014-001 |  | True |
| SP16Farm\_AppManagement | App Management Database |  | SQL2014-001 |  | True |
| SP16Farm\_Search | Search Admin |  | SQL2014-001 |  | True |
| SP16Farm\_MetaData | Manage Metadata |  | SQL2014-001 |  | True |
| SP16Farm\_Profile | User Profile |  | SQL2014-001 |  | True |
| SP16Farm\_UsageAndHealth | Usage |  | SQL2014-001 |  | True |
| SP16Farm\_Sync | Profile Sync |  | SQL2014-001 |  | True |
| SP16Farm\_Search\_LinksStore | Search Links |  | SQL2014-001 |  | True |

## Content Database Capacity

The growth of data and log files should be managed proactively. The numbers given are our threshold recommendations, points at which expanding the DB should be considered. The percentages shown represent the amount of free space in the DB. The percentages are relevant in the sense that a DB that is close to full capacity will at some point soon need to grow, which might result in a performance hit while the DB is expanding. Depending on your circumstances, it might be wise to pregrow it manually before the autogrowth triggers, because it will probably occur during regular office hours and may cause issues for users during the growth.
[Learn more...](https://www.syskit.com/_app-links/content-database-capacity/)

Data File Free Space [%]: >= 15 >= 10 and < 15 < 10
Total Size [MB]: DB size is smaller or equal: 50[MB] else

| Database | SQL Server | Total Size [MB] | Log Size [MB] | Data File Size [MB] | Data File Free Space [%] |
| --- | --- | --- | --- | --- | --- |
| SP16Farm\_Content\_CentralAdmin | SQL2014-001 |  | 9733.69 | 8973.5 | 760.19 |  | 0.46 |
| SP16Farm\_Content\_MySites | SQL2014-001 |  | 6232.13 | 6128.94 | 103.19 |  | 7.01 |
| SP16Farm\_Content\_Portal | SQL2014-001 |  | 6239.13 | 6128.94 | 110.19 |  | 13.1 |
| WSS\_Content\_d25f772f3d9e4c59abeb4c5b6a1dd81a | SQL2014-001 |  | 3875.69 | 3805.5 | 70.19 |  | 1.14 |
| WSS\_Content\_Internet\_82 | SQL2014-001 |  | 7733.06 | 6741.88 | 991.19 |  | 0.45 |
| WSS\_Content\_Internet\_PMD | SQL2014-001 |  | 7796.13 | 6128.94 | 1667.19 |  | 9.8 |
| WSS\_Content\_Intranet\_81 | SQL2014-001 |  | 6034.75 | 5638.56 | 396.19 |  | 18.26 |
| WSS\_Content\_Project\_Server | SQL2014-001 |  | 4688 | 4488 | 200 |  | 8.61 |

## Content Database Autogrowth

We recommend that you proactively manage the growth of data and log files by considering the following recommendations: As much as possible, pre-grow all data and log files to their anticipated final size. We recommend that you enable autogrowth for safety reasons. Do not rely on the default autogrowth settings.
[Learn more...](https://www.syskit.com/_app-links/content-database-autogrowth/)

File Growth Value: >= 500 >= 400 and < 500 < 400
Applies to rows with a condition: File Growth with a specific (Equals Megabytes) value
File Growth:  value Equals (Megabytes) else

| SQL Server | Database | File Type | File Growth | File Growth Value |
| --- | --- | --- | --- | --- |
| SQL2014-001 | SP16Farm\_Content\_CentralAdmin | Rows Data |  | Megabytes |  | 1 |
| SQL2014-001 | SP16Farm\_Content\_CentralAdmin | Log |  | Percent | 10 |
| SQL2014-001 | WSS\_Content\_d25f772f3d9e4c59abeb4c5b6a1dd81a | Rows Data |  | Megabytes |  | 1 |
| SQL2014-001 | WSS\_Content\_d25f772f3d9e4c59abeb4c5b6a1dd81a | Log |  | Percent | 10 |
| SQL2014-001 | SP16Farm\_Content\_Portal | Rows Data |  | Megabytes |  | 1 |
| SQL2014-001 | SP16Farm\_Content\_Portal | Log |  | Percent | 10 |
| SQL2014-001 | WSS\_Content\_Project\_Server | Rows Data |  | Megabytes |  | 64 |
| SQL2014-001 | WSS\_Content\_Project\_Server | Log |  | Megabytes |  | 64 |
| SQL2014-001 | SP16Farm\_Content\_MySites | Rows Data |  | Megabytes |  | 1 |
| SQL2014-001 | SP16Farm\_Content\_MySites | Log |  | Percent | 10 |
| SQL2014-001 | WSS\_Content\_Internet\_82 | Rows Data |  | Megabytes |  | 1 |
| SQL2014-001 | WSS\_Content\_Internet\_82 | Log |  | Percent | 10 |
| SQL2014-001 | WSS\_Content\_Internet\_PMD | Rows Data |  | Megabytes |  | 1 |
| SQL2014-001 | WSS\_Content\_Internet\_PMD | Log |  | Percent | 10 |
| SQL2014-001 | WSS\_Content\_Intranet\_81 | Rows Data |  | Megabytes |  | 1 |
| SQL2014-001 | WSS\_Content\_Intranet\_81 | Log |  | Percent | 10 |

## Database Files

Database files and transaction logs should not be on the primary drive and should be on separate drives.
[Learn more...](https://www.syskit.com/_app-links/database-files/)

| Database Name | Files on System Drive | Logs on Same Drive |
| --- | --- | --- |
| **Database Server Name: SQL16-AO1** |
| SP16Farm\_StateService |  | False |  | False |
| SP16Farm\_SecureStore |  | False |  | False |
| SP16Farm\_WordAutomation |  | False |  | False |
| SP16Farm\_Social |  | False |  | False |
| SP16Farm\_Search\_AnalyticsReportingStore |  | False |  | False |
| SP16Farm\_BusinessDataCatalog |  | False |  | False |
| SP16Farm\_Config |  | False |  | False |
| SP16Farm\_PerformancePoint |  | False |  | False |
| SubscriptionSettingsDatabase\_79e3450c5a6c46299918a24f3f68b599 |  | False |  | False |
| SP16Farm\_Search\_CrawlStore |  | False |  | False |
| App\_Management\_8fd84856-726a-4913-95f5-5446a8a57e40 |  | False |  | False |
| SP16Farm\_AppManagement |  | False |  | False |
| SP16Farm\_Search |  | False |  | False |
| SP16Farm\_MetaData |  | False |  | False |
| SP16Farm\_Profile |  | False |  | False |
| SP16Farm\_UsageAndHealth |  | False |  | False |
| SP16Farm\_Sync |  | False |  | False |
| SP16Farm\_Search\_LinksStore |  | False |  | False |
| SP16Farm\_Content\_CentralAdmin |  | False |  | False |
| WSS\_Content\_d25f772f3d9e4c59abeb4c5b6a1dd81a |  | False |  | False |
| SP16Farm\_Content\_Portal |  | False |  | False |
| WSS\_Content\_Project\_Server |  | False |  | False |
| SP16Farm\_Content\_MySites |  | False |  | False |
| WSS\_Content\_Internet\_82 |  | False |  | False |
| WSS\_Content\_Internet\_PMD |  | False |  | False |
| WSS\_Content\_Intranet\_81 |  | False |  | False |
| **Database Server Name: SQL16-AO2** |
| SP16Farm\_StateService |  | False |  | False |
| SP16Farm\_SecureStore |  | False |  | False |
| SP16Farm\_WordAutomation |  | False |  | False |
| SP16Farm\_Social |  | False |  | False |
| SP16Farm\_Search\_AnalyticsReportingStore |  | False |  | False |
| SP16Farm\_BusinessDataCatalog |  | False |  | False |
| SP16Farm\_Config |  | False |  | False |
| SP16Farm\_PerformancePoint |  | False |  | False |
| SubscriptionSettingsDatabase\_79e3450c5a6c46299918a24f3f68b599 |  | False |  | False |
| SP16Farm\_Search\_CrawlStore |  | False |  | False |
| App\_Management\_8fd84856-726a-4913-95f5-5446a8a57e40 |  | False |  | False |
| SP16Farm\_AppManagement |  | False |  | False |
| SP16Farm\_Search |  | False |  | False |
| SP16Farm\_MetaData |  | False |  | False |
| SP16Farm\_Profile |  | False |  | False |
| SP16Farm\_UsageAndHealth |  | False |  | False |
| SP16Farm\_Sync |  | False |  | False |
| SP16Farm\_Search\_LinksStore |  | False |  | False |
| SP16Farm\_Content\_CentralAdmin |  | False |  | False |
| WSS\_Content\_d25f772f3d9e4c59abeb4c5b6a1dd81a |  | False |  | False |
| SP16Farm\_Content\_Portal |  | False |  | False |
| WSS\_Content\_Project\_Server |  | False |  | False |
| SP16Farm\_Content\_MySites |  | False |  | False |
| WSS\_Content\_Internet\_82 |  | False |  | False |
| WSS\_Content\_Internet\_PMD |  | False |  | False |
| WSS\_Content\_Intranet\_81 |  | False |  | False |

## Disk Allocation Size

Checks whether Block Size equals 64 and whether the following calculation (Partition Offset / Block Size) results in an integer value. In most cases this is best practice for storage, but please refer to your storage documentation and check if this rule applies to your storage.
[Learn more...](https://www.syskit.com/_app-links/disk-allocation-size/)

| Server | Disk | Block Size [KB] | Partition Offset [KB] |
| --- | --- | --- | --- |
| SQL16-AO1 | D: |  | 4 |  | 132096 |
| SQL16-AO2 | D: |  | 4 |  | 132096 |
| SQL16-AO1 | E: |  | 4 |  | 132096 |
| SQL16-AO2 | E: |  | 4 |  | 132096 |

## SQL Server Memory

The minimum and maximum SQL memory values should be configured and should differ from default values.
[Learn more...](https://www.syskit.com/_app-links/sql-server-memory/)

| SQL Server | Minimum server memory [MB] | Maximum server memory [MB] |
| --- | --- | --- |
| SQL16-AO1 |  | 0 |  | 2147483647 |
| SQL16-AO2 |  | 0 |  | 2147483647 |

## Content Database Capacity by Total Size

Displays the total size of your Content Databases. The thresholds are set to the following: If the content database size is equal or more than 100GB an error is displayed. If the content database size is equal or more than 80GB a warning is displayed. Modifyable by navigating to Conditional Formating.

Total Size [MB]: >= 102400 >= 81920 and < 102400 < 81920

| Database | SQL Server | Total Size [MB] | Web Application |
| --- | --- | --- | --- |
| SP16Farm\_Content\_CentralAdmin | SQL2014-001 |  | 9733.69 | Central Administration |
| WSS\_Content\_d25f772f3d9e4c59abeb4c5b6a1dd81a | SQL2014-001 |  | 3875.69 | SharePoint - SP138712 |
| SP16Farm\_Content\_Portal | SQL2014-001 |  | 6239.13 | Portal Home |
| WSS\_Content\_Project\_Server | SQL2014-001 |  | 4688 | Project Server |
| SP16Farm\_Content\_MySites | SQL2014-001 |  | 6232.13 | MySite Host |
| WSS\_Content\_Internet\_82 | SQL2014-001 |  | 7733.06 | SharePoint Internet - 82 |
| WSS\_Content\_Internet\_PMD | SQL2014-001 |  | 7796.13 | SharePoint Internet - 82 |
| WSS\_Content\_Intranet\_81 | SQL2014-001 |  | 6034.75 | SharePoint Intranet - 81 |

# Hardware Requirements

## Free Disk Space

Determines whether all servers have enough free disk space. Please check the available disk space to avoid system failure.
[Learn more...](https://www.syskit.com/_app-links/free-disk-space/)

Free Space [GB]: >= 150 >= 80 and < 150 < 80

| Server | Name | Volume Name | Size [GB] | Free Space [GB] |
| --- | --- | --- | --- | --- |
| SP1 | C: | Local Disk | 99.48 |  | 51.11 |
| SP2 | C: | Local Disk | 99.48 |  | 75.58 |
| SPDOCKIT-D | C: | Local Disk | 99.48 |  | 56.55 |
| SPDOCKIT-H | C: | Local Disk | 99.48 |  | 64.66 |
| SQL16-AO1 | C: | Local Disk | 39.45 |  | 20.45 |
| SQL16-AO1 | D: | Data | 139.87 |  | 122.66 |
| SQL16-AO1 | E: | Logs | 119.87 |  | 46.64 |
| SQL16-AO1 | F: | TempDB1 | 4.97 |  | 4.87 |
| SQL16-AO1 | G: | TempDB2 | 4.97 |  | 4.87 |
| SQL16-AO1 | H: | TempDB3 | 4.97 |  | 4.87 |
| SQL16-AO1 | I: | TempDB4 | 4.97 |  | 4.87 |
| SQL16-AO2 | C: | Local Disk | 39.45 |  | 20.8 |
| SQL16-AO2 | D: | Data | 139.87 |  | 128.78 |
| SQL16-AO2 | E: | Logs | 119.87 |  | 46.64 |
| SQL16-AO2 | F: | TempDB1 | 4.97 |  | 4.8 |
| SQL16-AO2 | G: | TempDB2 | 4.97 |  | 4.8 |
| SQL16-AO2 | H: | TempDB3 | 4.97 |  | 4.8 |
| SQL16-AO2 | I: | TempDB4 | 4.97 |  | 4.8 |

## RAM

\* The minimum and recommended amount of RAM for production use in a single server or multiple server farm.
[Learn more...](https://www.syskit.com/_app-links/ram/)

Memory [GB]: >= 22 >= 12 and < 22 < 12

| Server | Role | Memory [GB] |
| --- | --- | --- |
| SP1 | Custom (WFE / App) |  | 8 |
| SP2 | Application with Search |  | 8 |
| SPDOCKIT-D | Front-end |  | 8 |
| SPDOCKIT-H | Front-end |  | 8 |
| SQL16-AO1 | DB |  | 8 |
| SQL16-AO2 | DB |  | 8 |

## Free Disk Space only on Local Disks

Determines whether all servers have enough free disk space. Please check the available disk space to avoid system failure.
[Learn more...](https://www.spdockit.com/_app-links/free-disk-space/)

Free Space [GB]: >= 150 >= 80 and < 150 < 80

| Server | Name | Volume Name | Size [GB] | Free Space [GB] |
| --- | --- | --- | --- | --- |
| SP1 | C: | Local Disk | 99.48 |  | 51.11 |
| SP2 | C: | Local Disk | 99.48 |  | 75.58 |
| SPDOCKIT-D | C: | Local Disk | 99.48 |  | 56.55 |
| SPDOCKIT-H | C: | Local Disk | 99.48 |  | 64.66 |
| SQL16-AO1 | C: | Local Disk | 39.45 |  | 20.45 |
| SQL16-AO2 | C: | Local Disk | 39.45 |  | 20.8 |

# Maintenance

## Backup

### Farm Backup Configured

Check if the farm has been backed up via SharePoint backups.
[Learn more...](https://www.syskit.com/_app-links/farm-backup-configured/)

Previous Backup Location:  value Is Empty () else

|  |  |  |
| --- | --- | --- |
| Previous Backup Location |  | \\SPDOCKIT-H\SPBackup |

### Farm Backup History

Check if the farm has been fully backed up recently.
[Learn more...](https://www.syskit.com/_app-links/farm-backup-history/)

Backup Age[days]: >= 15 >= 10 and < 15 < 10

| Top Component | Start Time | Finish Time | Warnings | Errors | Backup Age[days] |
| --- | --- | --- | --- | --- | --- |
| Farm | 6/21/2016 1:03:09 PM | 6/21/2016 1:25:05 PM | 0 | 0 |  | 983 |

### Content Database Backups

Check if content databases have been backed up recently.
[Learn more...](https://www.syskit.com/_app-links/content-database-backup/)

Days since Last Backup: > 15  > 10 and <= 15  <= 10

| Database | SQL Server | Days since Last Backup |
| --- | --- | --- |
| SP16Farm\_Content\_CentralAdmin | SQL2014-001 |  | 545 |
| SP16Farm\_Content\_MySites | SQL2014-001 |  | 545 |
| SP16Farm\_Content\_Portal | SQL2014-001 |  | 545 |
| WSS\_Content\_d25f772f3d9e4c59abeb4c5b6a1dd81a | SQL2014-001 |  | 575 |
| WSS\_Content\_Internet\_82 | SQL2014-001 |  | 657 |
| WSS\_Content\_Internet\_PMD | SQL2014-001 |  | 545 |
| WSS\_Content\_Intranet\_81 | SQL2014-001 |  | 657 |
| WSS\_Content\_Project\_Server | SQL2014-001 |  | 545 |

### Content Database Backups Custom

Check if content databases have been backed up recently. A custom report made by an SPDocKit user.
[Learn more...](http://sp1:81/sites/strikestrike-inc/SitePages/Strike%20Strike%20HomePage.aspx)

Days since Last Backup: > 15  > 10 and <= 15  <= 10

| Database | SQL Server | Days since Last Backup |
| --- | --- | --- |
| SP16Farm\_Content\_CentralAdmin | SQL2014-001 |  | 545 |
| SP16Farm\_Content\_MySites | SQL2014-001 |  | 545 |
| SP16Farm\_Content\_Portal | SQL2014-001 |  | 545 |
| WSS\_Content\_d25f772f3d9e4c59abeb4c5b6a1dd81a | SQL2014-001 |  | 575 |
| WSS\_Content\_Internet\_82 | SQL2014-001 |  | 657 |
| WSS\_Content\_Internet\_PMD | SQL2014-001 |  | 545 |
| WSS\_Content\_Intranet\_81 | SQL2014-001 |  | 657 |
| WSS\_Content\_Project\_Server | SQL2014-001 |  | 545 |

## Misc

### Farm Accounts Used Interactively

These accounts should only be used to run services and application pools and not for interactive logon.
[Learn more...](https://www.syskit.com/_app-links/farm-accounts-used-interactively/)

Used Interactively:  value Is True else

| Account | Type | Used Interactively |
| --- | --- | --- |
| CONTOSO\SP\_Farm | Managed account |  | False |
| CONTOSO\SP\_Services | Managed account |  | False |
| CONTOSO\SP\_PortalAppPool | Managed account |  | False |
| CONTOSO\SP\_ProfilesAppPool | Managed account |  | False |
| CONTOSO\SP\_SearchService | Managed account |  | False |
| CONTOSO\aspi\_install | Managed account |  | True |
| CONTOSO\sp\_project | Managed account |  | False |
| CONTOSO\sp\_project | Service account |  | False |
| CONTOSO\SP\_Farm | Service account |  | False |
| CONTOSO\SP\_Services | Service account |  | False |
| CONTOSO\SP\_SearchService | Service account |  | False |
| CONTOSO\aspi\_install | Service account |  | True |
| CONTOSO\SP\_PortalAppPool | Service account |  | False |
| CONTOSO\SP\_ProfilesAppPool | Service account |  | False |
| LocalSystem | Service account |  | False |
| LocalService | Service account |  | False |

\* The recommended values have been modified.