SAP Content Server on Windows Server 2008 Install Guide
Pre-Requisites

- Server running Microsoft Windows 2008 Server R2 OS
- Java for launching SAP installation Manager
- Web Server IIS with IIS 6 Compatibility Management (see Appendix A on how to install Web Server IIS)
- SAP DVD Serial numbers 50098620 & 51038620 (installation master
  Or
- Download the following files from SAP marketplace (found in software downloads in the latest Net Weaver Package download.) 50098620_2,
  50098620_3 and the relevant installation master e.g. for Windows 2008 server on X64 51038620_12.
Content Server Install Guide

1. Using 51038620 select correct folder for hardware in use on the server in this example we are installing on e.g. IM_WINDOWS_X86_64.

2. In the folder find and launch sapinst.exe.

3. Select 'SAP NetWeaver 7.0 including Enhancement Package...', then 'Standalone Engines', then 'Content Server', lastly 'Content Server and / or Cache Server' as shown below.
4. Click on the highlighted 'Next' button as shown below
5. Click on the highlighted 'Browse' button.

6. Locate the file LABEL.ASC on the 50098620_2 download or DVD and click OK.
7. Click on the 'Next' button to continue.

8. De-select Cache Server and select Database Instance and select 'Next'.

**SAP NetWeaver**

**SOFTWARE DELIVERY TOOL**

*Content Server > Installation Packages*

Select the packages you want to install.
9. Review and modify, if required, the installation settings and select ‘Next’

10. Click on the browse button.

11. Locate the file SDBINST.EXE on the 50098620_3 download or DVD in the corresponding directory for the operating system and type and click ‘OK’.
12. Once selected click 'Next'.
Media Browser > Software Package Check

Enter the location of the required software packages

<table>
<thead>
<tr>
<th>Package Location</th>
<th>Check Location</th>
<th>Copy Package To</th>
</tr>
</thead>
<tbody>
<tr>
<td>C: \Share\SWMN01\5020_3XW_7</td>
<td>Browse</td>
<td></td>
</tr>
</tbody>
</table>
13. You will be prompted to enter the passwords for the user accounts 'superdba' and 'control'. Please make a note of what these passwords are as you will need them later.

**MaxDB > Database Users**

Enter the passwords of the database system administrator and the database manager operator.

**Database System Administrator**
- Account: superdba
- Password of superdba
- Confirm

**Database Manager Operator**
- Account: control
- Password of control
- Confirm
14. Review database installation parameters and click 'Next'.

**SAP NetWeaver**
SOFTWARE DELIVERY TOOL

MaxDB > Database Parameters

Enter the parameters for the database instance

**Database Identification**

- Database Host: CS2008-2
- Database ID (DBSID): SDB

**Database Parameters**

- Mirror Log Volumes
- CPUs Used Concurrently: 1
- I/O Buffer Cache (MB)*: 1361
- Number of Sessions*: 50

**Additional Information**

The suggested value of *Number of Sessions* considers only the initial installation. If you plan to install further dialog instances, you have to increase the initial value. Each database session requires its own memory.
15. Review database log volumes, this is where the log files will be stored, and click on 'Next'.

MaxDB > Log Volumes

Specify the log volumes for your database

<table>
<thead>
<tr>
<th>Database Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database ID (DGID)</td>
</tr>
<tr>
<td>Minimum Log Size [MB]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Log Volumes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
</tr>
<tr>
<td>5.\app\sapsers\log</td>
</tr>
</tbody>
</table>

Add | Remove
16. Review storage parameters for the database, amending the storage location if required, click 'Next'.
17. Review and amend previous entries before starting the installation. Click 'Next' to start the install.
18. The Installation process will start with the progress shown on the screen.

19. When complete a message will appear telling you it was successful. Select 'OK' to finish.
Check Content Server is running

Open a Web Browser and enter the following address;

http:\servername:1090\ContentServer\ContentServer.dll?serverInfo

replacing server name with the name of your server Content Server has been installed on.

A response below will show that the Content Server is running.

It is worth trying this on the server and remotely on your desktop as the connection from your desktop may not work due to the firewall in Windows 2008 Server on your server.

If the firewall is blocking the Content Server from responding, create an inbound firewall rule for Content Server using TCP for the Content Server port, see Appendix B for detailed instructions. Then try the url above to see if the Content Server is responding remotely.
Windows Server Tasks before Configuring SAP

Before trying to connect SAP to the Content Server and to create Content Repositories it is worth performing the windows server tasks that will prevent SAP from connecting and creating the Content Repositories.

1. Create Inbound Firewall Rule for Content Server, mentioned in the previous section, see Appendix B, for details.

2. Edit the permissions for the users of the SAP_Content_Server to allow 'Full Control'. This is done by opening Server Manager and expanding 'Roles' and 'Web Server (IIS)' to highlight 'Internet Information Services'. In the 'Connections' pane right click over 'SAP_Content_Server' and select 'Edit Permissions' as shown below;

Select the 'Security' tab and click on 'Edit' to change the permissions.

Select 'Users' and check 'Full Control' and click 'OK'.
3. Allow ISAPI restrictions for the ContentServer.dll. In the 'Connections' pane highlight the server and then in the main window double click on 'ISAPI and CGI Restrictions'.
The Window will display the restrictions in place. Ensure that the ContentServer.dll is 'allowed'. Highlight the ContentServer.dll entry and right click over and select 'Edit Feature Settings'
Check 'Allow unspecified ISAPI modules' and click OK.

4. Restart IIS server by highlighting the server in the 'Connections' pane right click and selecting 'Stop'.
And starting by doing the same again but selecting 'Start'.

5. Enable the Content Server to be used as a Network Service. See SAP Note 658442, appendix C for reference. From the command prompt enter the following:

   Change directory so that you are in the 'C:\Program Files\SAP\Content Server'. At the prompt line enter:

   icacls * /grant NETWORKSERVICE:F
6. Referencing SAP note 851146, from the command prompt run, go the directory 'C:sapdb\programs\pgm'. Enter the following:

\icacls sql*.dll /grant NETWORKSERVICE:F

7. Referencing check note 301352 in the directory 'C:sapdb\programs\pgm' run the following command.

\odbcreg LiveCache –i –p C:sapdb\programs\pgm

C:sapdb\programs\pgm>odbcreg LiveCache –i –p C:sapdb\programs\pgm
ODBC Driver for 'LiveCache' has been successfully registered.

C:sapdb\programs\pgm>
Make the Connection to SAP

1. Use transaction OAC0 and select create.

Add details as shown below, note the basic path is the file path of the content repository data volume SAP directory.
2. Now select ‘CS Admin’ button, the screen will take you to the create content repository input screen. Select the 'Execute' button.

You will be prompted for a user id and password which you will have to enter windows 2008 server user id and password you used for the install of Content Server. For my installation I used the administrator id and password (this is the windows logon password).
When done repeat the creation of the Content Repository. When it is created it will look like below.

3. Then click onto the 'Certificates' tab and click on the 'Send Certificate' icon as shown below;

4. The certificate will be sent back. Select/highlight the certificate as shown below and click on the 'Enable' button.
The certificate will be enabled as seen below.

The installation of the Content Server is complete. By selecting the overview tab the repository can be seen running.
### Content Server Administration - Change

<table>
<thead>
<tr>
<th>HTTP server</th>
<th>cs2008-2:1090</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTTP script</td>
<td>ContentServer/ContentServer.dll</td>
</tr>
<tr>
<td>Version</td>
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#### Server Information

<table>
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<tr>
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<th>Status description</th>
<th>Manufacturer</th>
<th>Version</th>
<th>Build</th>
<th>spVersion</th>
<th>Server date</th>
<th>Server start</th>
<th>Start date</th>
<th>serv. start</th>
<th>serv. end</th>
<th>serv. lock</th>
<th>serv. lock</th>
</tr>
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#### Information on repositories

<table>
<thead>
<tr>
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<th>Description</th>
<th>Status</th>
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<th>spVersion</th>
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<th>contentS</th>
<th>contentS</th>
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</thead>
<tbody>
<tr>
<td>A1</td>
<td></td>
<td>SAP Content ServerWnd, running</td>
<td></td>
<td></td>
<td>0046</td>
<td>Content0.015</td>
<td>201</td>
<td>localhost</td>
<td>SDB</td>
<td>y</td>
<td></td>
</tr>
</tbody>
</table>
Troubleshooting

In testing the installation the following errors occurred and the resolution of each error is detailed in this document.

1. Cannot run sapinst.exe - Java needs to be installed, e.g. Java JRE6, search on the web for download Java Runtime.
2. In opening CSADMIN in SAP I get a http 401 error. This is a security error with the Windows Server Firewall see Appendix A to resolve.
3. In SAP using CSADMIN when connecting or creating the user id and password I am asked for is not recognised. Suggestion use the local administrator user id for the Windows Server the Content Server resides on. If this does not work use the servername\administrator\userid in the user id box and enter the password.
4. In SAP using CSADMIN when creating the Content Repository, using the create tab, a http 500 error appears, repeat tasks 5, 6 and 7 in the section 'Windows Server Tasks to perform before Configuring SAP'.
5. Task 5 and 6 using the icacls commands do not work, try using cacls as in SAP notes.
Appendixes

Appendix A - How to Add IIS in Windows Server 2008

1. Click on Server Management.

2. Right-click over ‘Roles’ and select ‘Add Roles’

3. Skip over the introduction page if shown. In Server Roles select ‘Web Server (IIS)’ and click on ‘Next >’.
4. Click 'Next >' over the introduction page.
5. Select the additional standard select roles, add the 'Application Development' and 'IIS 6 Management Compatibility', then click on the 'Next >' button.
6. Click on the 'Install' button to install IIS

7. Installation should be successfully completed with the message below, click on 'Close' to finish.
Appendix B - Opening Windows 2008 Server Firewall for SAP Content Server

1. In 'Administrative Tools' open 'Windows Firewall with Advanced Security'

2. Right click over 'Inbound Rules' and select 'New Rule...'

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3. In the Rule Wizard select 'Port' and click on 'Next'.

![New Inbound Rule Wizard dialog box with 'Port' selected and 'Next' button highlighted.](image)
4. Enter the port number you set for the Content Server, the default port is 1090, and click 'Next'.
5. Select 'Allow the connection' and click 'Next'.

[Image of the New Inbound Rule Wizard window]

- **Action**
  - Specify the action to be taken when a connection matches the conditions specified in the rule.

  - **Rule Type**
  - **Protocol and Ports**
  - **Action**
  - **Profile**
  - **Name**

What action should be taken when a connection matches the specified conditions?

- **Allow the connection**
  - This includes connections that are protected with IPSec as well as those that are not.

- **Allow the connection if it is secure**
  - This includes only connections that have been authenticated by using IPSec. Connections will be secured using the settings in the IPSec policy and rules in the Connection Security Rule node.

- **Block the connection**

Learn more about actions.
6. Select the Profile for your network and click on 'Next'.
7. Enter the name of rule, e.g. 'Content Server' and click on 'Finish'.
SAP Note 658442

SAP Note Number 658442 - SAP Content Server 6.30 on Windows 2003 servers
Note Language: English  Version: 7  Validity: Valid from 02.08.2004

Summary

Symptom
You want to install the SAP Content Server 6.30 on Windows 2003 servers.

More Terms:
Content Server, Windows 2003 Server, Installation

Cause and Prerequisites
Information

Solution
You need the Internet Information Server (IIS) to run the SAP Content Server. By default, this component is not installed in some Windows 2003 versions - for example, Enterprise Edition. Ensure that the IIS is installed.

Now you can install the SAP Content Server 6.30 as described in the Installation Manual.

The content server and the cache server use ISAPI Extensions of the IIS. The ISAPI Extensions are locked in the standard configuration of the IIS.

In the Management Console, select:

- Internet Information Services (IIS) Manager -> Web Service Extensions -> Add a new Web service extension

Specifications for the content server:

Name: CONTENTSERVER.dll
File: C:\INETPFS\ContentServer.dll
Status: Allowed

<CISTDI3> is the installation directory of the content server: "C:\Program Files\SAP\Content Server".

Specifications for the cache server:

Name: CLProxyCache.dll
File: C:\INETPFS\CLProxyCache.dll
Status: Allowed

<CISTDI3> is the installation directory of the cache server, default: "C:\Program Files\SAP\Cache Server".

The IIS runs by default under the Windows user "NETWORK SERVICE". This user is translated in the localized Windows versions, for example, in the German version it is called "NETZWERKDIENST". The localized versions are not released for operating the SAP Content Server. The installation program sets the access authorisations for the Windows user "IISUSR".

You can change the access rights for the <CISTDI3> directory and the subdirectories using the following command. (If the directory name contains
SAP Note Number 658.442 - SAP Content Server 6.30 on Windows 2008 servers

Blank characters. It must be enclosed in inverted commas.

calls <INITISBN T / I / G "NETWORK SERVICE":F

The corresponding command with <INITISBN> changes the process rights for the cache server.

If the data is stored in the file system, the Windows user "NETWORK SERVICE" must have write authorizations in the directories that appear in the file ContentServer.ini under 'Host=RepRoot' or in the file CFProxyCache.ini under 'CacheRoot'.

Using the following URL, you can check whether the content server is ready for use:

http://host:port/ContentServer/ContentServer.dll/serverInfo

Where 'host' is the host name of the content server
Where 'port' is the TCP/IP port of the content server - default: 1086

Using the following URL, you can check whether the cache server is complete:

http://host:port/Cache/CFProxyCache.dll/serverInfo

Where 'host' is the host name of the cache server
Where 'port' is the TCP/IP port of the cache server - default: 1095

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Header Data

Release Status: Released for Customer
Release Date: 02.06.2004 14:10:18
Priority: Recommendations/Additional Info
Category: Installation information
Main Component: BC-SRV=APR-CS SAP Content Server

Valid Releases

<table>
<thead>
<tr>
<th>Software Component</th>
<th>Release</th>
<th>From Release</th>
<th>To Release</th>
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<td>CONTENTSERV</td>
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Related Notes

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<th>Short Text</th>
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<td>751146</td>
<td>CGDB driver cannot be loaded on Windows 2001</td>
</tr>
<tr>
<td>751380</td>
<td>Knowledge Warehouse on Windows 2003</td>
</tr>
<tr>
<td>514500</td>
<td>Importing Support Packages for the SAP Content Server</td>
</tr>
</tbody>
</table>

03.06.2007
SAP Note 851146

SAP Note Number 851146 - ODBC driver cannot be loaded on Windows 2003

Note Language: English  Version: 1  Validity: V04.08.2003

Summary

This error only affects SAP Content Server installations on Windows 2003.

In transaction CSADMIN, a database repository cannot be updated from the "defined" status to the "running" status. Instead, the request terminates with a timeout after a certain amount of time.

The following message is logged for an activated server trace:

ErrorDescription: "CreateTab ContentsForType, connect error SQLConnect failed, specified driver could not be loaded due to system error 3 (liwBroker), Error Code: 160"

More Terms

SAP Content Server, Windows 2003

Cause and Prerequisites

Due to authorization problems, the Windows Driver Manager cannot load dependent ODBC DLLs.

Solution

You must add the "NETWORK SERVICE" user to the access authorizations for all ODBC driver DLLs.

Open a command box, switch to the installation directory of the SAPDBMaxCE ODBC driver and execute the following command:

call <INSTDIR>\sql\t.dll /S /G "NETWORK SERVICE":F

Provided that you have not executed an ODBC driver update into another directory (NOTE 669415, 501925). The ODBC driver is in the \sap\program\gpm\installation directory.

Also refer to note 669412, which describes the manual postprocessing steps for a SAP Content Server installation on Windows 2003.

Based on our observations, you do not need to restart the SAP Content Server.

Header Data

Release Status: Released to Customer
Released on: 07.06.2005 05:12:00
Priority: Recommendations/Advisory info
Category: Installation Information
Main Component: BC-DRV-HPR-CS SAP Content Server

Valid Releases

03.06.2007
SAP Note Number 851146 - ODBC driver cannot be loaded on Windows 2000

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Related Notes

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<td>851442</td>
<td>SAP Content Server 6.20 on Windows 2000 servers</td>
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<tr>
<td>20132</td>
<td>ODBC driver is not registered</td>
</tr>
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