Updating the CMS Hosts

SAP BI 4.1 SP04 Platform Servers Update on both CMS machines (WINPB3-04 and WINPB3-05) in parallel

SAP BI 4.1 SP04 Explorer Update on both CMS machines (WINPB3-04 and WINPB3-05) in parallel

We have applied the following Parallel Patching Strategy for all the SAP BI 4.1 SP04 updates in this Pattern.

Here is a small description about Parallel Patching:

Parallel Patching

Before 4.0 SP5, patching has always been one of the most time consuming efforts in maintaining and upgrading a BI Enterprise system as servers must be updated one after the other, and therefore the downtime was lengthy and expensive.

From BI 4.0 SP5 and BI 4.1 release onwards, deployment order has changed for distributed systems. It is now possible to start deployments in some areas in parallel to avoid long runtime because of sequential update of CMS, Central Services, etc.

Follow the below order to perform parallel patching:

- Update all CMS host machines in parallel.
- Update all non-CMS host machines in parallel.

Rules for updating a clustered deployment in parallel

- You need to wait until parallel updates are complete on all machines before proceeding to the next step.
- Do not restart a host machine until all machines updating in parallel have finished updating, even if the update installation program requests a restart.
- There must be at least one CMS machine available to the non-CMS host machines that are updating.
- While updating BI Platform servers ensure that at least one CMS and FRS services are running in a clustered environment. The rest of the servers can be either up or down. However, we recommend to shutdown other servers as it consumes resources of the operating system.
- The CMS hosts that are running when you begin update, and any additional CMS hosts that starts during the update, must be available for the entire duration of the update.
- Do not run any additional installation, maintenance, or server administration workflows that could cause the CMS machines to restart while the update is taking place.
- Once all the updates are completed, restart all CMS servers in your cluster.
- The process needs to be repeated for every product that is installed on the machines in the cluster (e.g. BI platform, Explorer, BI platform Client Tools).

Note: If you do not want to run installer in parallel and want to perform sequential update, run installer on one CMS server at a time. But, ensure that you update one CMS at a time, and then move on to other tiers. Install BI Server Patch update on all servers before installing add on components like Explorer etc. Updating Clients should be the last step.

For information on best practices for parallel patching, see: http://www.sdn.sap.com/irj/scn/go/portal/prtroot/docs/library/uuid/6083da26-2542-3110-6b2-e767b3606f5f?QuickLink=index&overridelayout=true&58965606034720
Note: Do not restart any SIA or servers until the patching is complete on all servers even if the installer prompts for a restart.

Refer to the below KBAs before starting an installation:

- 1952120 - SAP BusinessObjects (XI 3.1 and BI 4.0) Installation pre-requisites & best practices: This SAP KBA provides a list of things to check before running any operation concerning the msi installer.
- 1757132 - BI4 Support Pack Upgrade and Patch Install Best Practice Guide: This SAP KBA discusses best practices specific to BI 4.x installs. Please note the option to update in parallel for distributed environments.

1. Log on to both CMS machines (WINPB3-04 and WINPB3-05) using the AD domain account SVC_PATTERN and navigate to the temporary folder where you have stored the SAP BI 4.1 SP04 Platform Servers Update installer.

2. Run the SAP BI 4.1 SP04 Platform Servers Update installer by double-clicking on Setup.exe.

3. When the prerequisite system check completes successfully, click Next.

   **Note:** In some cases the prerequisite may fail for one of the critical check – ‘Suppressed reboot’. This is because the system may not have been rebooted since last update.

   **SAP BusinessObjects BI platform 4.1 SP4 update**

   **Check Prerequisites**

   Summary of any missing critical or optional prerequisites.

   Failed critical dependencies must be addressed before the installation can continue, while failed optional dependencies might result in some components not installing.

<table>
<thead>
<tr>
<th>Prerequisite</th>
<th>Type</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information Steward and Data Services com...</td>
<td>Optional</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Windows Installer Service</td>
<td>Critical</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Minimum support package version</td>
<td>Critical</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Updates are applicable</td>
<td>Optional</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Administrative rights</td>
<td>Critical</td>
<td>Succeeded</td>
</tr>
<tr>
<td>BI platform server 4 installed</td>
<td>Critical</td>
<td>Succeeded</td>
</tr>
<tr>
<td><strong>Suppressed reboot</strong></td>
<td>Critical</td>
<td><strong>Failed</strong></td>
</tr>
<tr>
<td>Windows version</td>
<td>Critical</td>
<td>Succeeded</td>
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</tbody>
</table>

   If a prerequisite failed, please click on the failed item for information on how to resolve it.

   Information: A reboot request is suppressed on the local machine. Please reboot the machine in order to proceed with the installation. INS00209

4. Reboot the system and run the installer again to get the following screen.
4. Click **Next**.

5. **Note:** In case, the installer still shows the above error, see KBA 1544104 on how to resolve it.
Welcome to the installation wizard for SAP BusinessObjects BI platform 4.1 SP4.

It is strongly recommended that you exit all Windows programs before running this setup program.

Click Cancel to quit Setup and close any program you have running. Click Next to continue with the Setup program.

WARNING: This program is protected by copyright law and international treaties.

Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.

6. Read the license agreement and select I accept the License Agreement.
7. Enter the CMS details and click Next.
8. Click **Next** to begin the installation.
Once the Installation is complete, you will see the below screen.

The installation is ready to install SAP BusinessObjects BI platform 4.1 SP4. Click Back to make changes to your installation information.

Click Next to begin the installation.

9. Once the Installation is complete, you will see the below screen.
Post Installation Instructions:

- Java web applications and web services have not yet been deployed to a Web Application Server. Run the wdeploy tool to deploy Java web applications and web services. To access the wdeploy tool, click the wdeploy shortcut in the `<SAP BusinessObjects BI platform>\<SAP BusinessObjects BI platform>` program folder on the Windows start menu.
- DataDirect 7 drivers have been installed. If you are currently using DataDirect 6 drivers, please consult the documentation to learn how to migrate to DataDirect 7.

Click **Finish** to exit the installation.
11. Follow the same procedure on the other CMS systems too.

This completes the SAP BI 4.1 SP04 Platform Servers Update on both CMS machines.

**Note:** Refer the install logs for any errors located at: C:\Program Files (x86)\SAP BusinessObjects\InstallData\logs\<Date and Timestamp folder

**BI 4.1 SP04 Explorer Update on both CMS machines (WINPB3-04 and WINPB3-05) in parallel**

**Note:** Explorer update is done on CMS machines for updating add-ons for explorer and explorer-search on CMS.

1. Log on to the both CMS machines (WINPB3-04 and WINPB3-05) using the Domain account SVC_PATTERN and navigate to the temporary folder where you have stored the SAP BI 4.1 SP04 Explorer Update installer.

2. Run the SAP BI 4.1 SP04 Explorer Update installer by double-clicking on Setup.exe. When the prerequisite system check completes successfully, click Next.
Check Prerequisites

Summary of any missing critical or optional prerequisites.

Failed critical dependencies must be addressed before the installation can continue, while failed optional dependencies might result in some components not installing.

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</tr>
<tr>
<td>Administrative rights</td>
<td>Critical</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Explorer 4 installed</td>
<td>Critical</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Suppressed reboot</td>
<td>Critical</td>
<td>Succeeded</td>
</tr>
<tr>
<td>Windows version</td>
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If a prerequisite failed, please click on the failed item for information on how to resolve it.

3. Click Next.
3. Click Next.

4. Read the license agreement and select I accept the License Agreement.
5. Click Next. 

6. Click Next to begin the installation.
8. Click **Next**.

9. Click **Finish** to exit the installation.

This completes the SAP BI 4.1 SP04 Explorer Update on both CMS machines.

**Note:** Refer the install logs for any errors located at: C:\Program Files (x86)\SAP BusinessObjects\InstallData\logs\<Date and Timestamp folder