

SAP BusinessObjects BI Pattern Books



ABSTRACT

This pattern book covers the workflow required to perform an UPDATE of SAP BusinessObjects BI 4.x to SAP BusinessObjects BI 4.2 on Microsoft Windows platform.

Updating from SAP BI 4.x to SAP BI 4.2



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- The information provided in this book are based on the SAP BI Pattern Books project for a specific set of patterns / use cases applied within SAP lab environment. Hence, make sure to review and apply the steps / workflows that are applicable to your use cases / patterns, based on your SAP BusinessObjects BI landscape
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For further comments and questions, email to SAPEnableBI@sap.com



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A pattern book is a step by step 'how to' of an actual deployment or upgrade of SAP BusinessObjects BI software documented as precisely as possible, based on a particular pattern or use case (for example: Deploying BusinessObjects on Windows Operating System).

The main goal of the BI Pattern Book project is to produce books that can be used as an instruction manual that provides step by step instructions on how to successfully deploy or test or upgrade SAP BusinessObjects BI software using a live example and how it was technically achieved.

Previous phases of BI Pattern Books:

- BI 4.1 Release – Pattern book on how to Upgrade from BOE XI 3.1 to BI 4.1 and Update pattern book on how to Update from 4.0 BI 4.1 release
- BI 4.0 Release - on Linux and Windows Patterns
- BOE XI 3.1 Release - on Windows Pattern
- BOE XI R2 Release - on Linux and AIX Patterns

Scope

The main scope of this pattern book is to capture the details, instructions, and steps involved in updating your SAP BusinessObjects BI 4.0 or SAP BusinessObjects BI 4.1 landscape to SAP BusinessObjects BI 4.2 release.

Note: The main workflow for updating from SAP BusinessObjects BI 4.0 and 4.1 release to SAP BusinessObjects BI 4.2 involves the same set of steps. Therefore, this book covers both the scenarios, which can be used for either versions (BI 4.0 or 4.1).

Abbreviations

UMT	Upgrade Management Tool
CMC	Central Management Console
CMS	Central Management Server
IFRS	Input File Repository Server
OFRS	Output File Repository Server



Overview – Updating SAP BusinessObjects BI 4.x to BI 4.2 Release

There is a new installation mechanism introduced in SAP BusinessObjects BI 4.2 release called **Split Install**. The main idea behind this innovation is to reduce the system downtime by splitting the installation process into two steps:

- **Caching the installation:** This will cache the install binaries to system directory.
- **Resume after Caching :** you have two options to resume the installation from the cache:
 - Resume after caching and perform the update installation in **parallel**, when you have multiple nodes or servers in your clustered landscape.
 - Resume after caching and perform the update installation **sequentially**.

In this pattern book, we have performed the installation using new split install feature. Therefore, the update workflow (actual installation), which is captured in this book is divided two parts:

- *caching*
 - *After caching*
1. We are providing the users a way to perform caching separately, before the actual installation. This will facilitate the users to reduce the down-time of the system, which we invest in order to cache the deployment units. After the updating the cache, the user can continue to use the system, as the system would continue to work in the previous (live) state without any update patch. Therefore, the users can continue using the system during the caching process.

```
C:\Users\I311674\Desktop\New POC\Xcelsius>setup.exe -cache response.ini
```

2. After completing the **Cache** step, the admin can resume the installation at any point of time. To resume the installation, user needs to update the response file generated during the **Cache** step with the sensitive information at the respective placeholders. Once the install is completed, response file containing the sensitive information can be deleted or reused for similar installation scenarios. You can perform the Resume steps as shown below:

For example, **setup.exe -'resume_after_cache'response.ini** (You need to provide the response file generated during the **Cache** step after updating with sensitive information.)

```
C:\Users\I311674\Desktop\New POC\Xcelsius>setup.exe -resume_after_cache response.ini
```



3. As mentioned above, once you cache the installation, there are two ways to run the actual installation.
 - a) Run the cache sequentially in clustered machines
 - b) Run the cache in parallel on clustered machines.

In this pattern book, we've applied both sequential and parallel method of updating the BI 4.0 and 4.1 systems and captured the steps for your reference. For more information about split installation, see BI 4.2 What's New guide.

[System Architecture: Updating SAP BusinessObjects BI 4.x System to BI 4.2 Release](#)

This section talks about system architecture for updating SAP BusinessObjects BI 4.x system to BI 4.2 release.

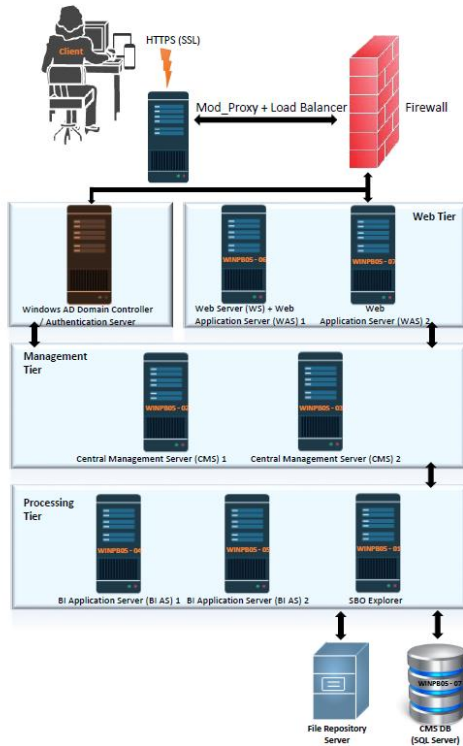
[Key Software Versions and Technologies](#)

BI Suite – Server Landscape	SAP BusinessObjects BI 4.0 SP10 (source) SAP BusinessObjects BI 4.1 SP06 (source) SAP BusinessObjects BI 4.2 SP01 (target)
Operating System	Windows
CMS Repository	MS SQL Server
Web-Tier	Apache, Tomcat

[Technical Architecture](#)

The systems (servers) that are part of the SAP BusinessObjects BI 4.0 landscape:

Machine Name	Application / Component
WINPB05-07	CMS DB Server (SQL Server DB & MS OLAP)
WINPB05-01	SBO Explorer
WINPB05-02	CMS1
WINPB05-03	CMS2
WINPB05-04	AppServer1
WINPB05-05	AppServer2
WINPB05-06	WS, WAS & FRS



Update Checklist

The following table lists the important things to do, before performing the update of BI 4.0 system to BI 4.1:

Steps	Output	Remarks
<ol style="list-style-type: none"> 1. Prepare communication plan to the end users. 2. Pre-implementation activities. (Download and copy all required SAP and third party installers on local server etc.) 3. Alert suppression of all BI Platform server to users. 4. Stop all BO schedule. (Jobs and reports etc.) 5. Backup of CMS database. 6. Backup of Audit database. 7. Backup of file system repository .(IFRS and OFRS) 8. Run server configuration backup. 9. Run Repo scan. 10. Run platform support tool. 11. Window Health check. (Event Viewer) 12. Disable update for OS, JAVA, etc. on all machines. 13. Caching BI 4.2 update on BOE Server 1 &2, Processing Servers, Web-Tier 1 & 2, Explorer Server in parallel. 	Installation completed successfully	

14.	Run resume_after_cache BI 4.2 update on BOE Server 1 & 2 sequentially (First 1 and then 2)		
15.	Run resume_after_cache BI 4.2 update on Processing tier servers sequentially.		
16.	Run resume_after_cache BI 4.2 update on Web-Tier 1 & 2 (Web-Tier components only) sequentially. (First 1 and then 2).		
17.	Run resume_after_cache BI 4.2 update of Explorer (CMS Add-ons) on BOE servers 1 & 2 sequentially(First 1 and then 2)		
18.	Run resume_after_cache BI 4.2 update of Explorer on Explorer server machine.		
19.	Run resume_after_cache BI 4.2 update of Explorer Web-Tier on 2 Tomcat servers sequentially (First 1 and then 2)		
20.	Resume after cache for BOE on CMS servers in parallel.		
21.	Resume after cache for BOE on Tomcat servers in parallel.		
22.	Resume after cache for Explorer CMS Add-on in CMS 1 and CMS 2 server in parallel.		
23.	Resume after cache for Explorer on Tomcat serves in parallel.		
24.	Restart all 3 SIA (2 CMS and 1 Explorer Node)		
25.	Post update checks		

Pre-requisites: Updating SAP BusinessObjects BI 4.x System to BI 4.2 Release

Following is the list of required and recommended pre-requisites for the update:

Resource	What's required?	Status
BI 4.0 Server images	<ul style="list-style-type: none"> • Server access • Network connectivity 	
BI 4.2 update software package	<ul style="list-style-type: none"> • Software downloaded and placed in the server images 	
Required third party components, if any	Tomcat 7.55, JRE, connectivity drivers, and other dependency software.	
System privileges	Ensure availability of administrator privileges on the OS system to be updated.	
Platform support	Check PAM for the 4.2 supported software.	
Disk space	Sufficient hard disk space or RAM to perform update. For more information, see the 4.2 PAM.	
Add-ons	Ensuring appropriate compatible versions of Add-on's for the server update.	
OS Processes	Ensuring all non-essential processes (e.g. Java.exe) and non-essential windows services are stopped or killed.	

	Software that monitors, scans, and locks files, such as, Anti-Virus, DEP, and Bit9 Trust-based security platform (Parity) should be turned off for the duration of the installation as it's been shown to interact adversely with MSI execution	
Repository Diagnostic Tool	Run Repository Diagnostic Tool for any discrepancies. For more information, see the SAP BusinessObjects Administration Guide: http://help.sap.com/businessobject/product_guides/boe_xi4/en/xi4sp10_bip_admin_en.pdf Wiki: http://wiki.scn.sap.com/wiki/pages/viewpage.action?pageId=143065487 KBA: http://service.sap.com/sap/support/notes/1689163	
Windows Event Viewer	Windows System Health Check	
Installation Guide	Go through the installation guide to get familiar with the overall installation process. Here is the link to the official SAP BusinessObjects Installation Guide: http://help.sap.com/bobip?current=pcat_analytics&show_children=false#section2	

Backup and Recovery

Backup is an important step to do before running the update workflow. The following table provides you the list of components that you have to take the back up.

Resource	What's required?	Status
BI Platform Support Tool	Run the Platform Support Tool.	
Web/Application servers	Ensure any additional configurations made in the form of configuration files are backed up.	
CMS / Audit Data base	Ensure CMS/Audit database is backed up before the update.	
FRS	Ensure File Repository System folders are backed up before the update.	
Server backup	Backup the entire BOE server. <ul style="list-style-type: none"> The installed folders The Registry keys Useful Links: SAP Note 1323322 - Backup and restore of filestore and CMS database of BusinessObjects Enterprise XI 3.x/BI 4.0/BI 4.1 system KBA: http://service.sap.com/sap/support/notes/1275068 - Editing the Windows SAP Note 1275068 Registry – Warning KBA: http://service.sap.com/sap/support/notes/1275068	

Cluster and License keys	Ensure the cluster and license keys are backed up before the update.	
Server Configuration	To back up server settings in the CCM on Windows, refer to SAP BusinessObjects Administration Guide: http://help.sap.com/businessobject/product_guides/boexir4/en/xi4sp10_bip_admin_en.pdf under the following Section 12.1.1.2.1.	

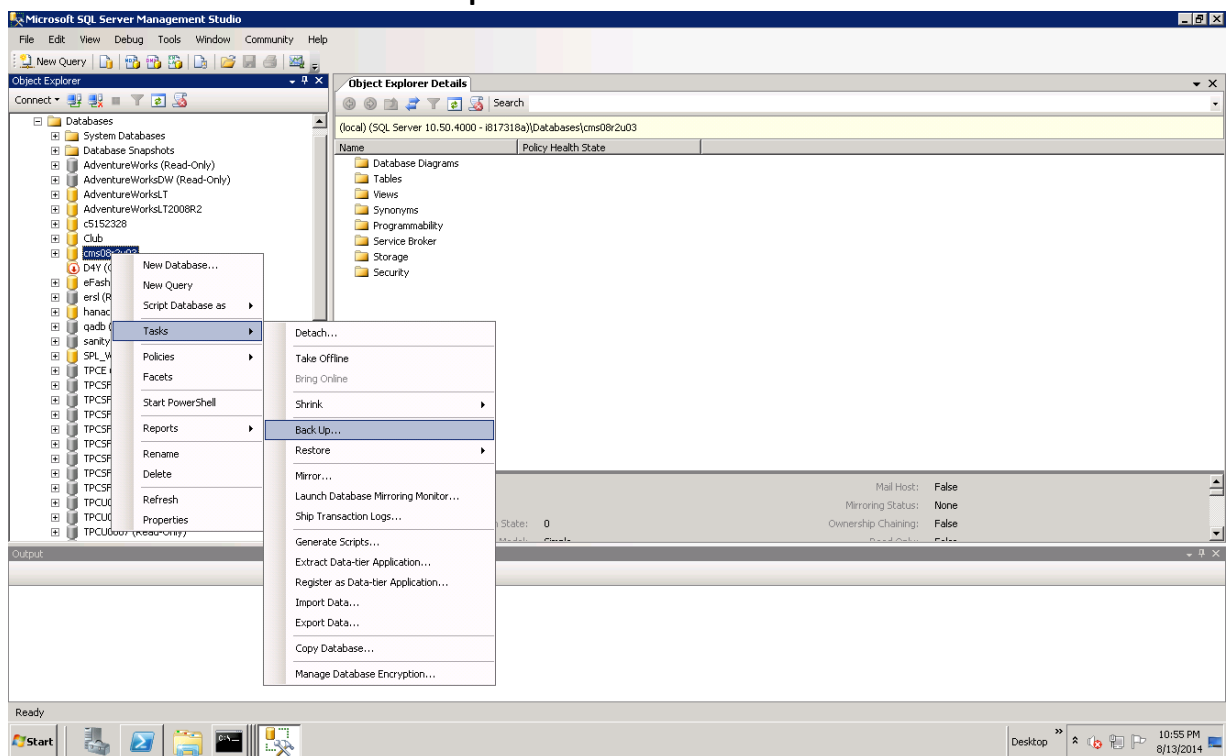
Backing-up CMS, FRS and Web Application Servers

Take a note of the following details that are required to perform the back-up process:

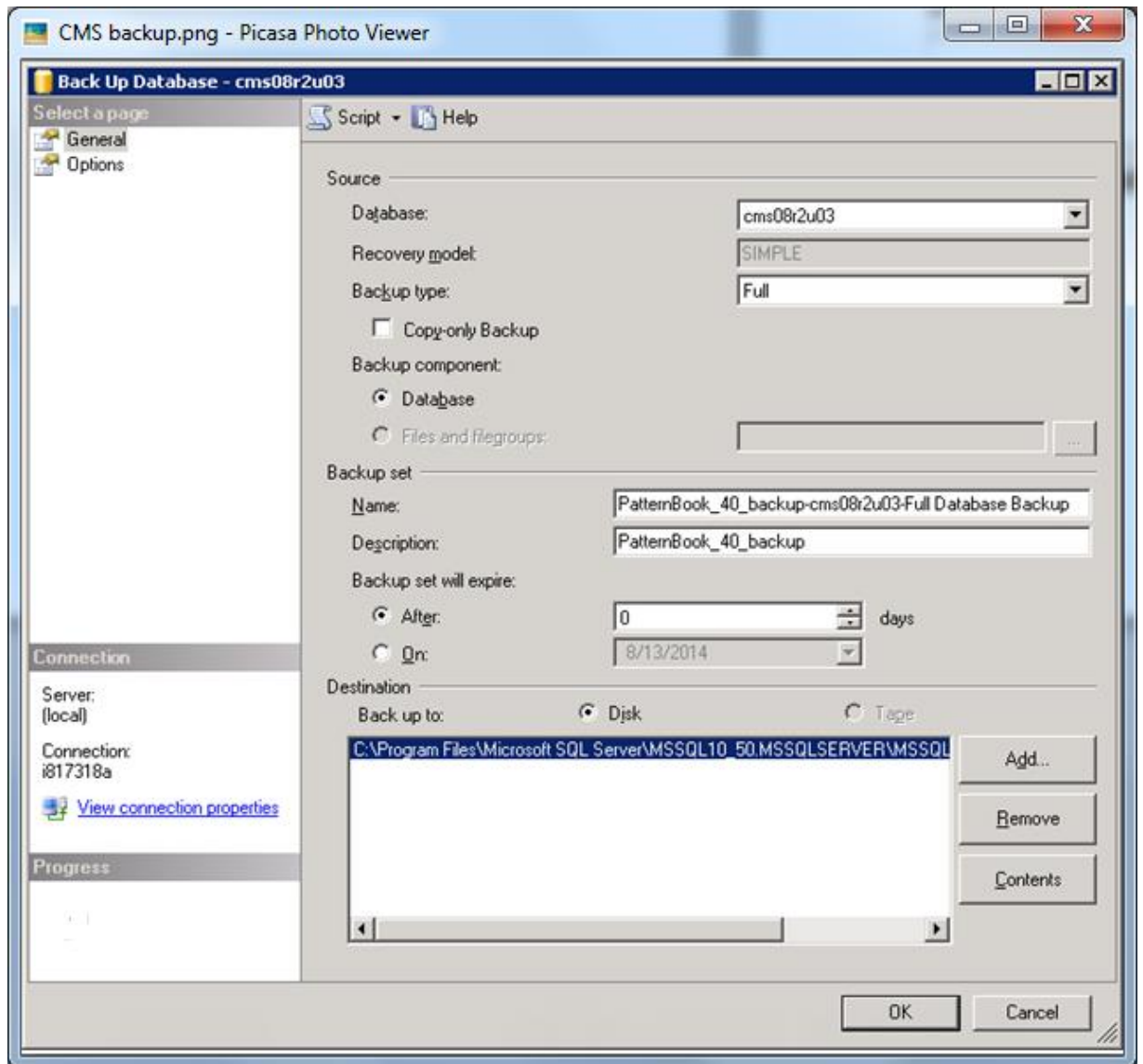
- CMS DB server user name and password
- CMS Cluster Name
- CMS user name and password
- CMS Cluster Key

Backing-up CMS Repository

1. Launch SQL Server.
2. Select the **database>Tasks>Back Up...**

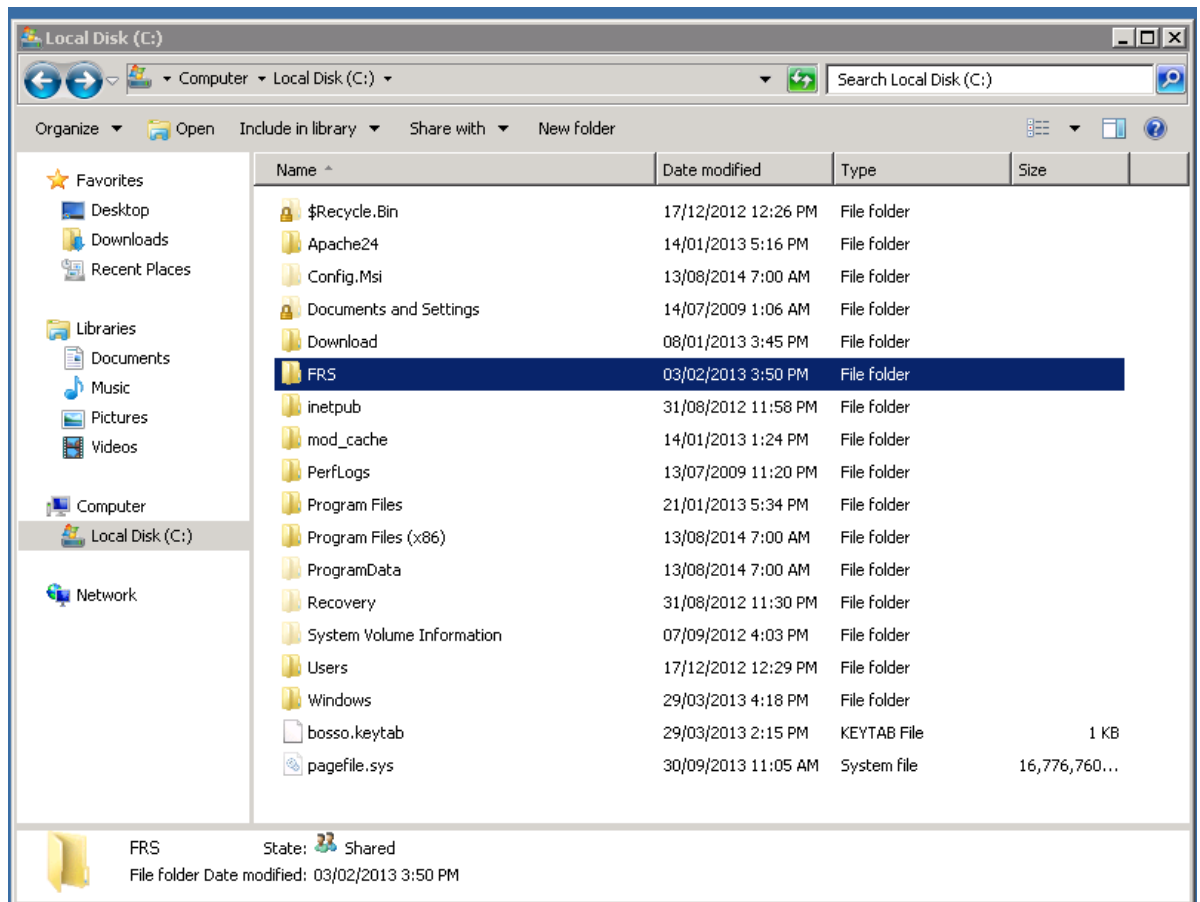


3. Choose **OK**.



Backing up FRS

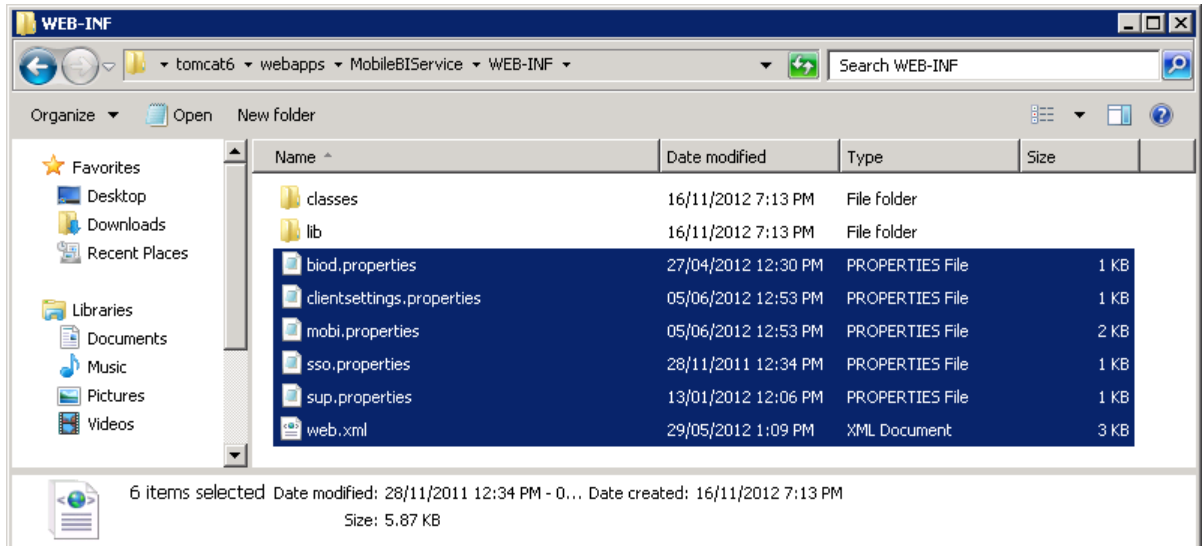
1. Navigate to the File Repository Server (FRS) directory in your system.
2. Copy them to the secure location.



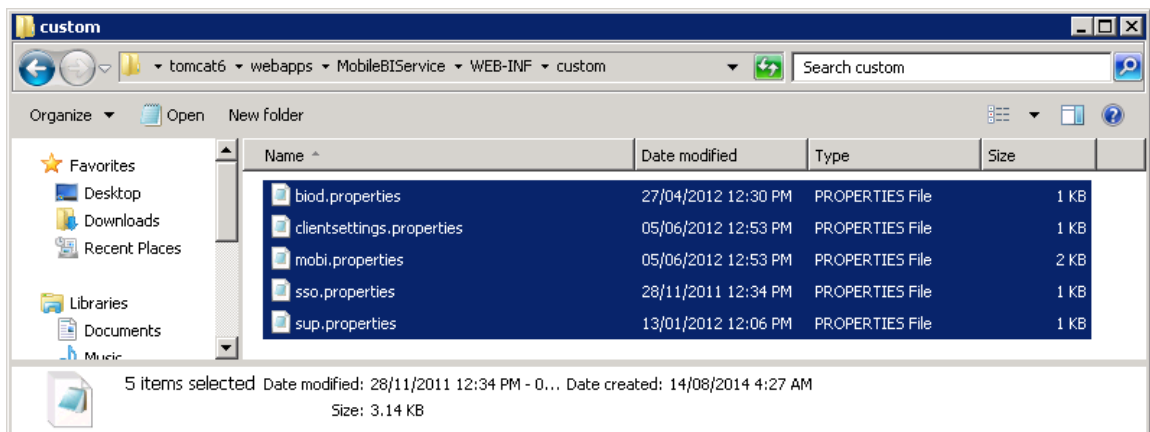
Backing up Tomcat Application server configurations

Following are the steps required to perform a backup of Tomcat Application server configuration files:

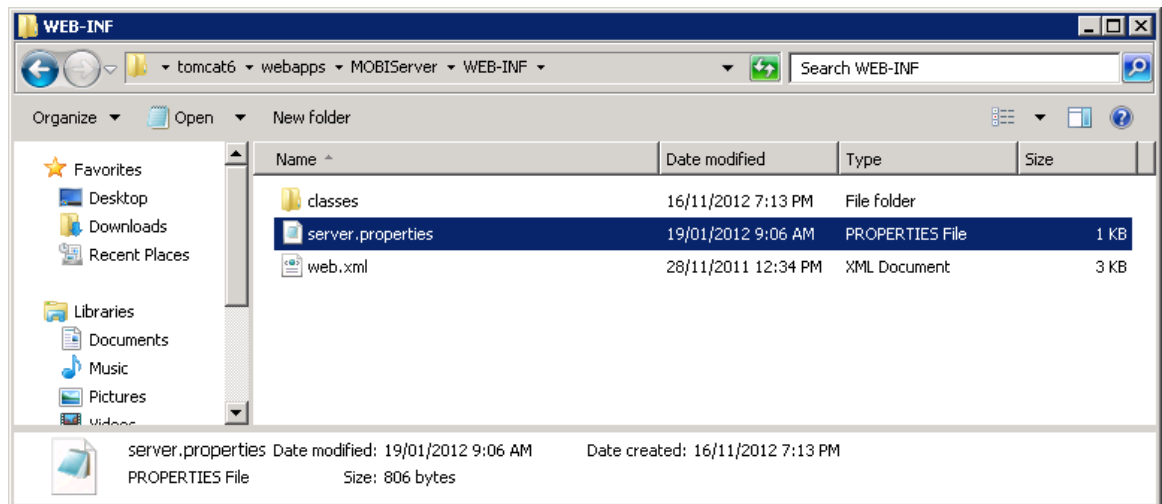
1. Back up Tomcat **config** folder. This contains all the default and custom configurations specified for different BI 4.0 web applications such as, CMC, BI Launch pad, OpenDocument etc. We need to ensure that we have back up of these folders before updating.
2. Copy the **config** folder and paste it in your back up folder. For example **C:\Backup\Tomcat_configuration\ folder**.
3. Back up Mobile add-on application deployment configuration files. Mobile application services property files are available in the following folder:



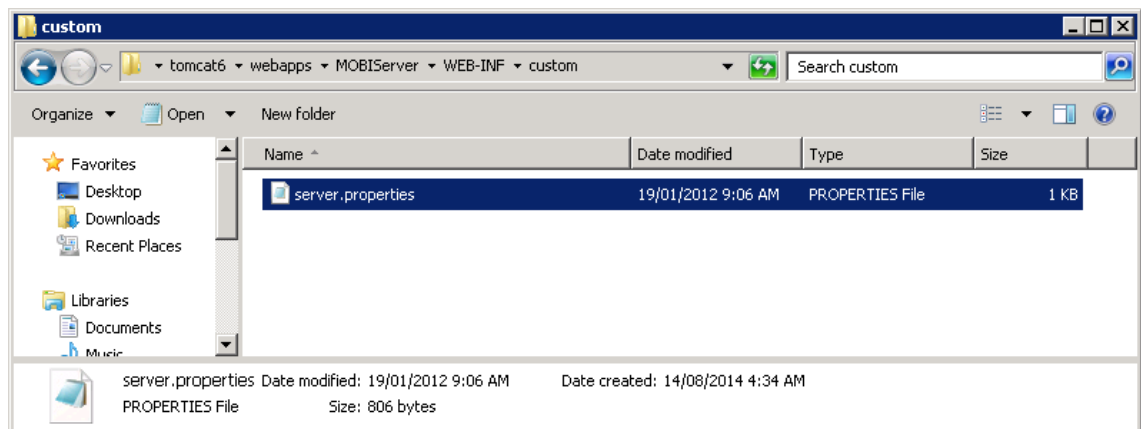
4. Backup the selected files into your back up folder. For example, **C:\Backup\Tomcat_configuration\MobileService\ folder.**
5. Backup custom configurations (if any). The custom configuration files are available in the following location:



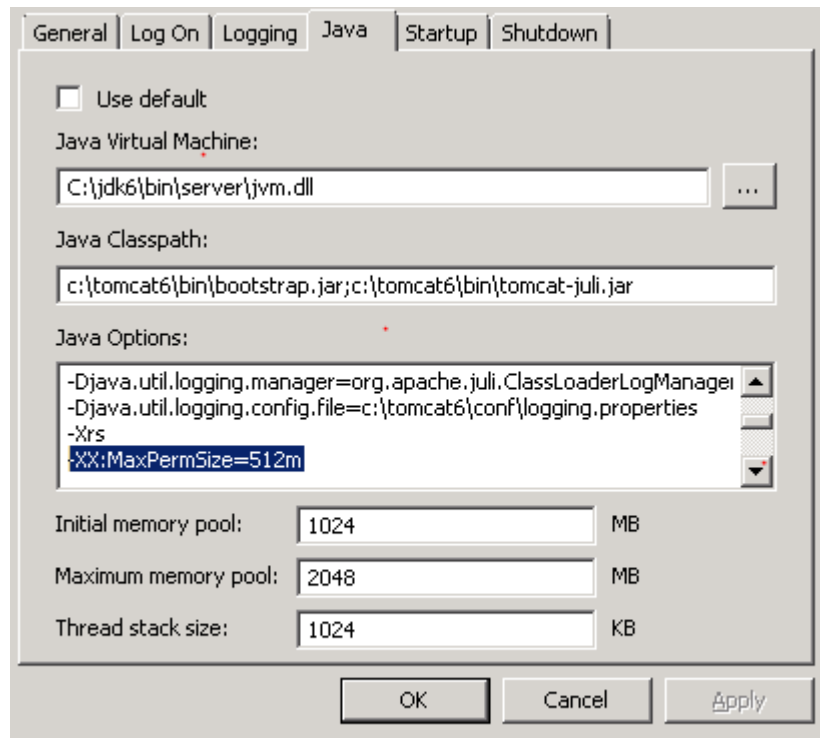
6. Backup the custom configuration files into your back up folder. For example, **C:\Backup\Tomcat_configuration\MobileService\ custom folder.**
7. Mobile server configuration files are available in the following location:



8. Backup the mobile server configuration file into your back up folder. For example, **C:\Backup\Tomcat_configuration\MOBIServer** folder.
9. Backup custom configurations (if any). If you have performed any custom configurations for MOBIServer, then those files are available in the following location:

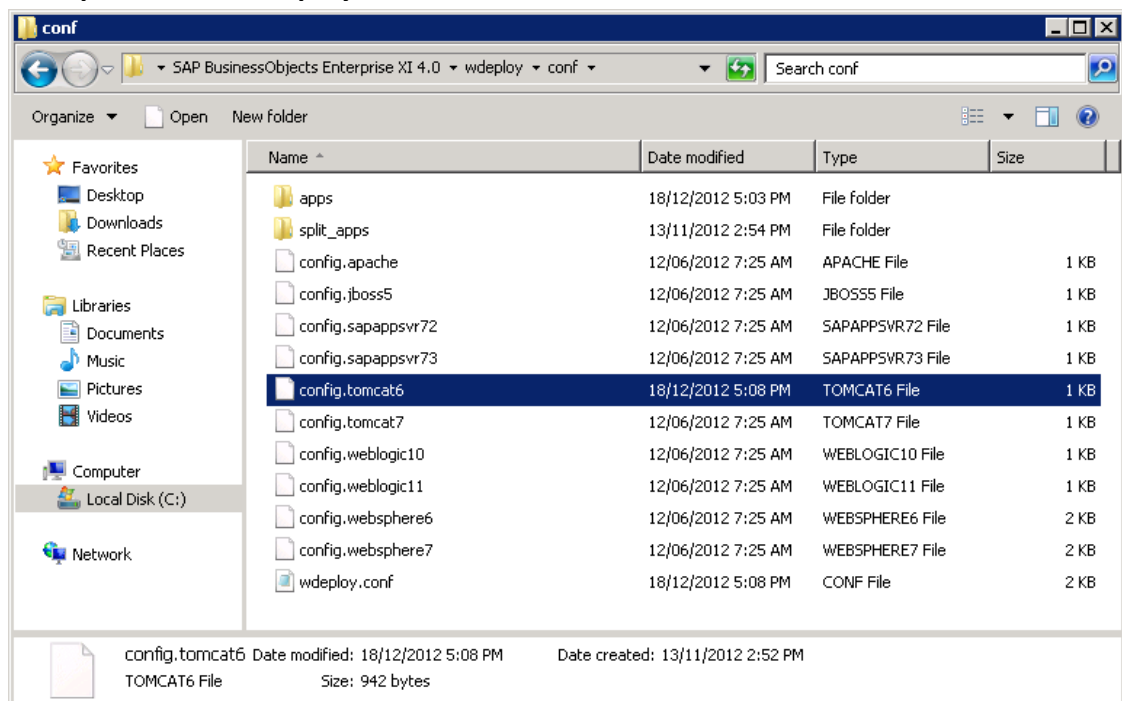


10. If you have performed any additional configurations on Tomcat application server, then record those configurations. For example:
 - a. The JAVA virtual machine patch which is currently being used by Tomcat.
 - b. In this case we have added **-XX:MaxPermSize=512m** under Tomcat configuration after the installation.



Note: Remember the Tomcat administrator username, password, and the role provided to you.

11. Take the backup of the following wdeploy configuration file used while deploying your existing Tomcat applications into your backup location. In our case following location is where you can find the file: **C:\bi4webtier\SAP BusinessObjects Enterprise XI 4.0\wdeploy\conf.**





12. Copy this file into your back up location. For example,
C:\Backup\Tomcat_configuration\wdeploy_config folder.
13. Back up the Tomcat cluster configurations. Also, take backup of the server.xml in the following location: **C:\Tomcat6\conf into your back location. E.g:**
C:\Backup\Tomcat_configuration\ folder.

Note: Make sure Tomcat is up and running as expected after taking backup. So that, you are sure that you have not removed any configuration files accidentally during the backup process.

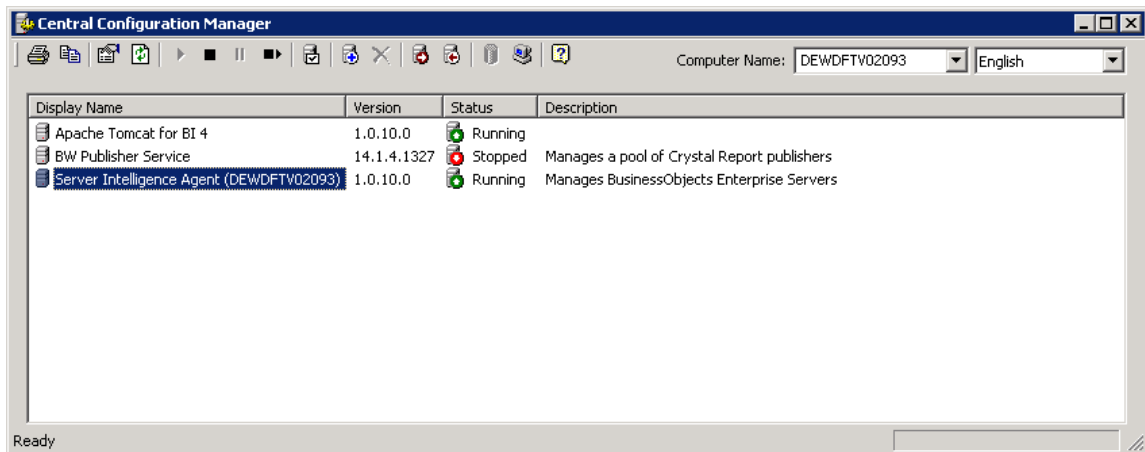
You can repeat the same process of taking backup in other Tomcat machine where BOE is deployed.

Take a backup of Server configuration from CCM

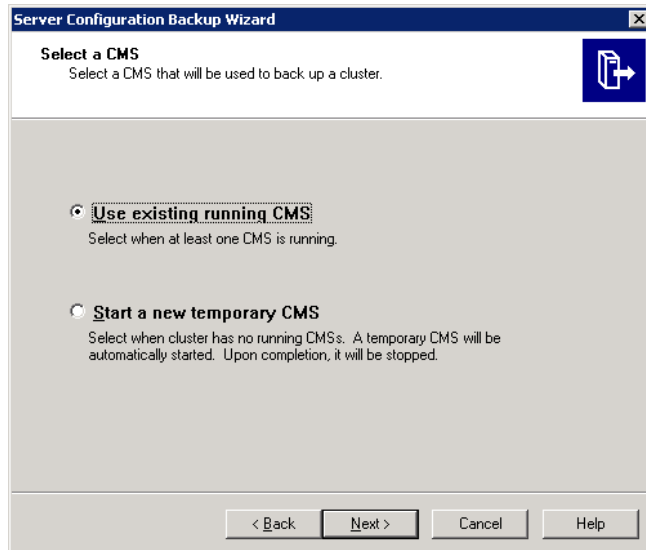
As there is no option of taking back up of individual servers, you need backup the server settings for an entire cluster. For information on **taking back up of server settings in the CCM on Windows**, see SAP BusinessObjects Administration Guide:

http://help.sap.com/businessobject/product_guides/boexir4/en/xi4sp10_bip_admin_en.pdf under the following section **12.1.1.2.1.**

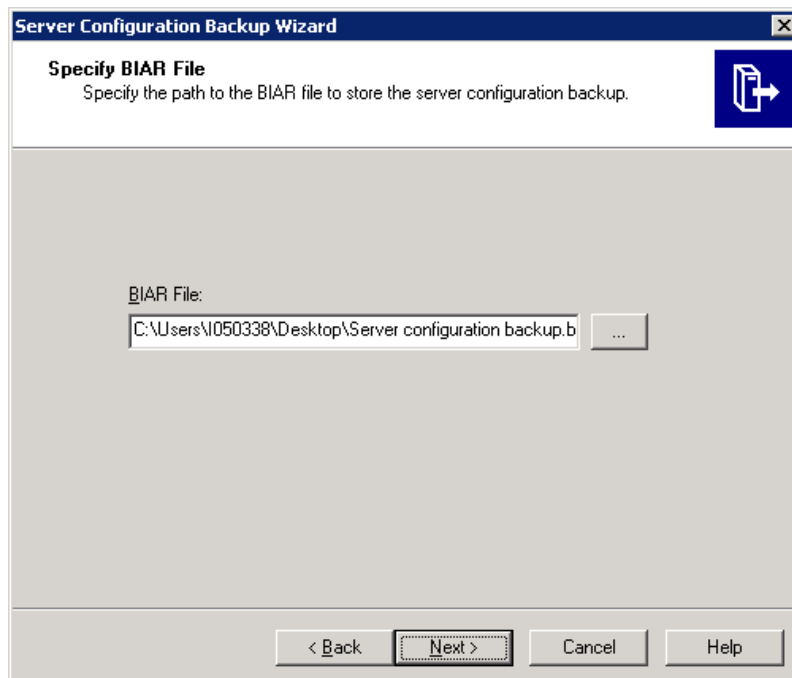
1. Choose backup server configuration in CCM.



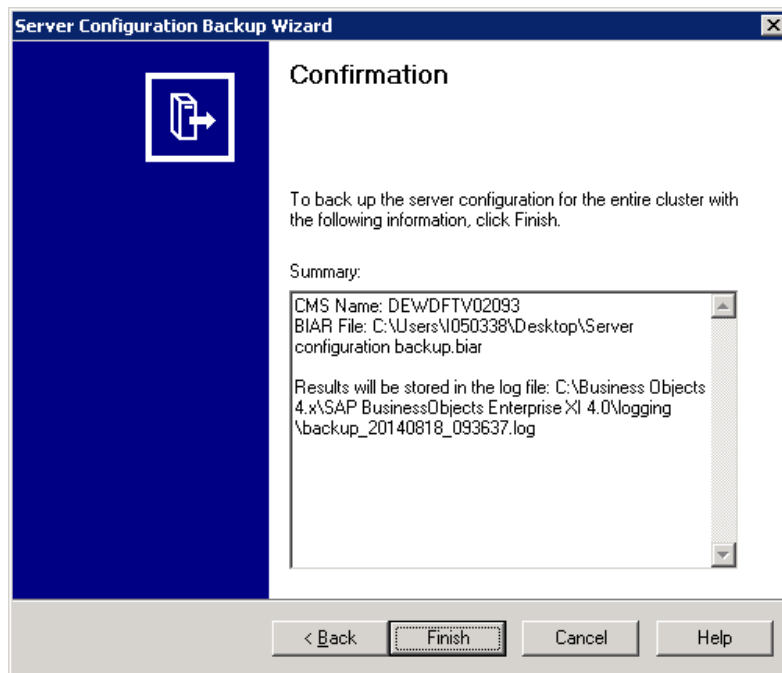
2. Choose the **Use existing running CMS** option.
3. Choose **Next**.



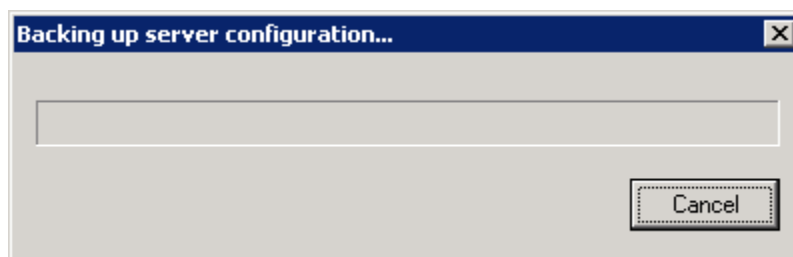
4. Specify the **BIAR file** location to store the server configuration backup.
5. Choose **Next**.



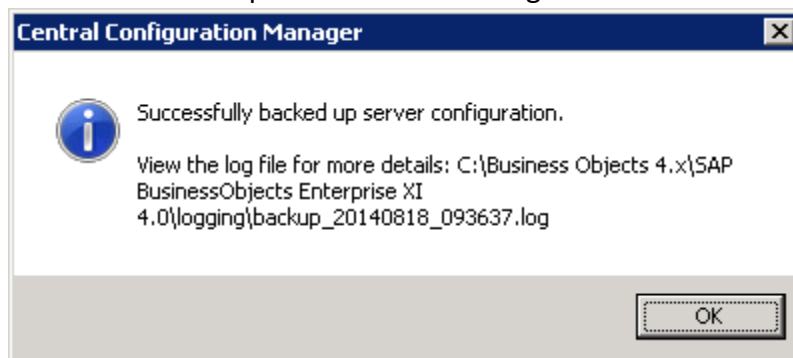
6. In the **Confirmation** screen, choose **Finish** to back up the server configuration.



Progress bar displaying the Backing up server configuration appears.



7. Choose **OK** to complete the server configuration.



Running RepoScan: Updating SAP BusinessObjects BI 4.x System to BI 4.2 Release

You perform this step in the CMS machine to determine any inconsistencies between CMS and FRS repositories.

For more information, see Repository Diagnostic Tool Guide:

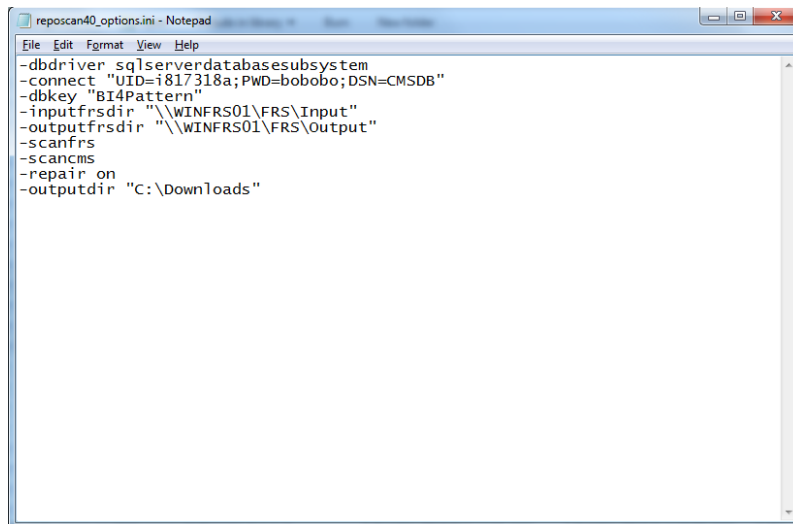
http://help.sap.com/businessobject/product_guides/boexir4/en/xi4_bip_repository_diagnostic_tool_en.pdf

Reference KBAs: 1689163 - How to use the Repository Diagnostic Tool (aka RepoScan) in BI 4.0 - for WINDOWS <http://service.sap.com/sap/support/notes/1689163>

1. Login to any of the CMS machine.
2. Create a .ini file (ex: RepoScan40_options.ini) with below parameters in order to run the RepoScan.exe.

Note: For mor information on each of the parameter, see Wiki Link:

<http://wiki.scn.sap.com/wiki/pages/viewpage.action?pageId=143065487>

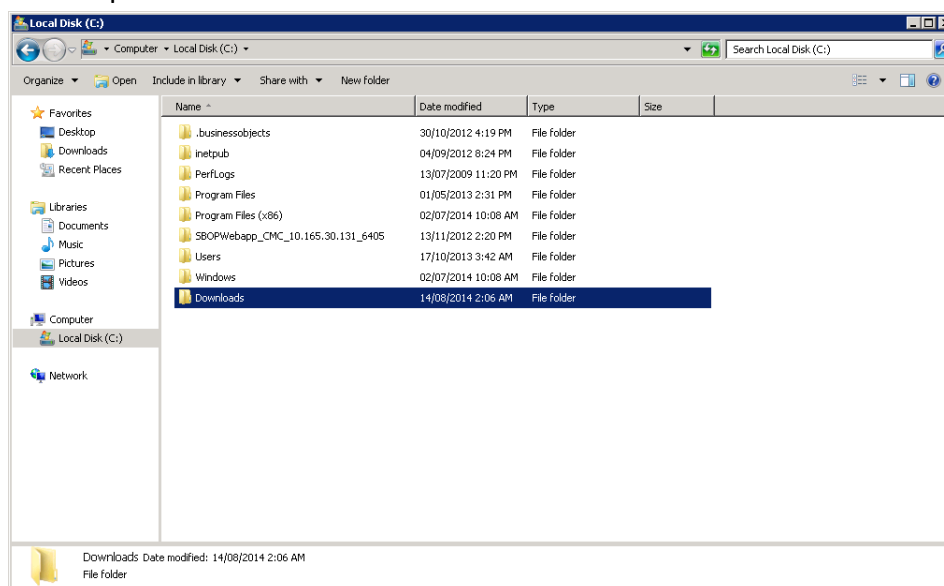


```

reposcan40_options.ini - Notepad
File Edit Format View Help
-dbdriver sqlserverdatabasesubsystem
-connect "UID=i817318a;PWD=bobobo;DSN=CMSDB"
-dbkey "BI4Pattern"
-inputfrsdir "\\WINFRS01\FRS\Input"
-outputfrsdir "\\WINFRS01\FRS\Output"
-scanfrs
-scancms
-repair on
-outputdir "C:\Downloads"
  
```

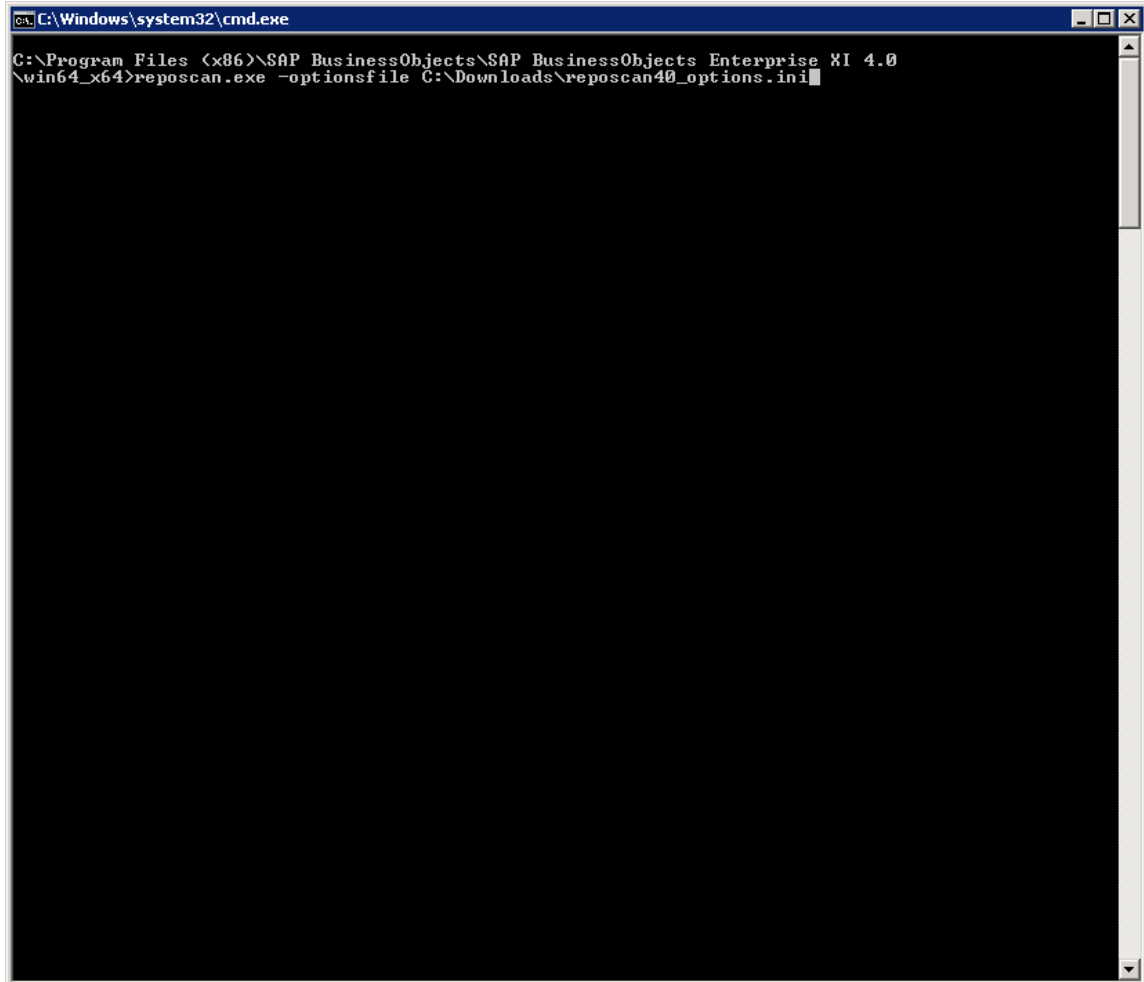
Note: For option **repair**, using either ON or OFF, repair does not work. This is a bug in the tool.

3. Create a **Downloads** folder in the C:\ directory.
4. Save RepoScan.ini file into the **Downloads** folder.



5. Open the command line and navigate to the Win64_x64 and run the RepoScan.exe by using the **options** file copied earlier.

Note: It is always recommended to run RepoScan.exe in Non-CMS machines in order to make sure that there are no performance issues on the CMS system.



```
C:\Windows\system32\cmd.exe
C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0
\win64_x64>reposcan.exe -optionsfile C:\Downloads\reposcan40_options.ini
```

[illegible]

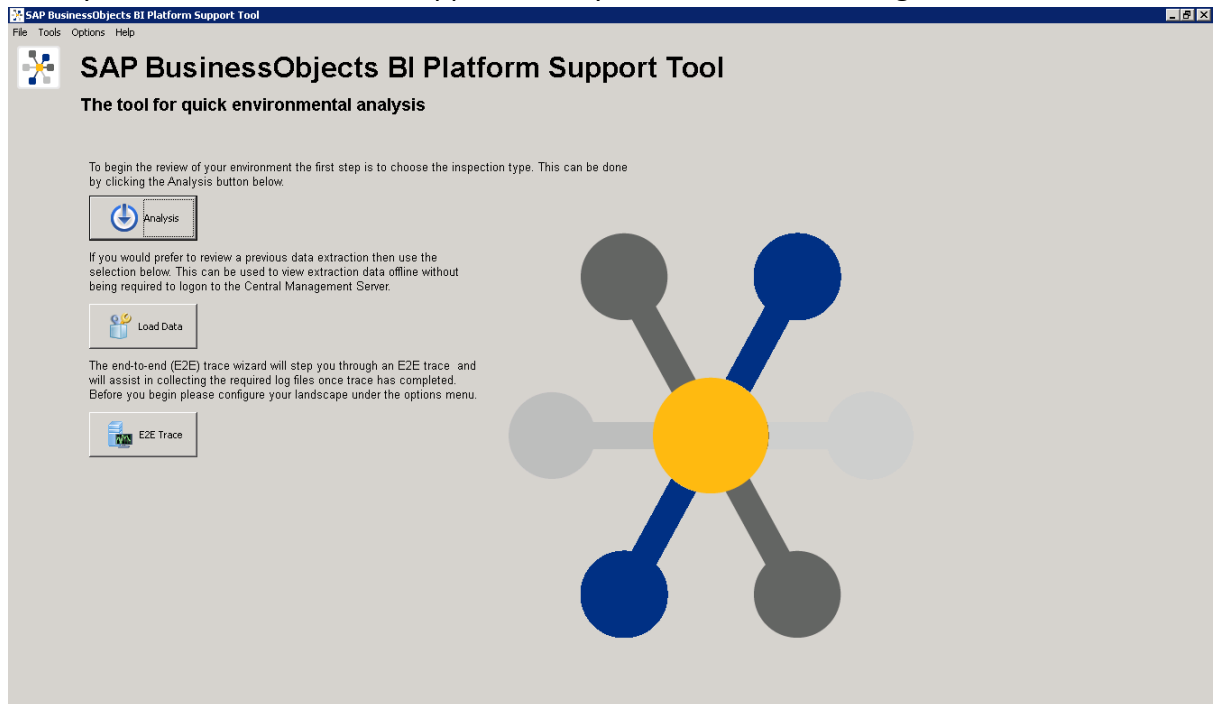
- 20

Running Platform Support Tool before Patch Update

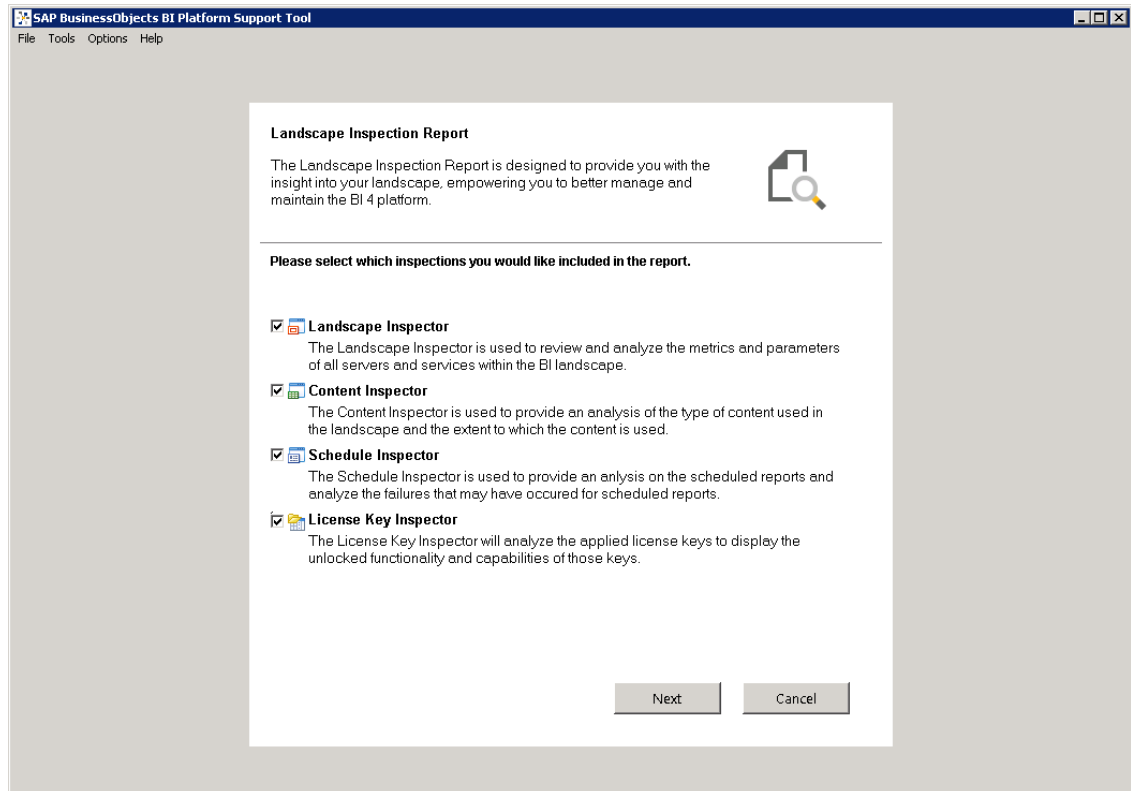
It is strongly recommended to run the Platform Support Tool before running the update process. Platform support tool is a java based utility to help support engineers, consultants and BI administrators to inspect system configuration, perform root cause analysis and deliver performance optimizations and go-live services.

You can find how to download, installation, and run the Platform Support in the following location: [Platform Support Tool](#).

1. After you launch the Platform Support Tool, you obtain the following screen:

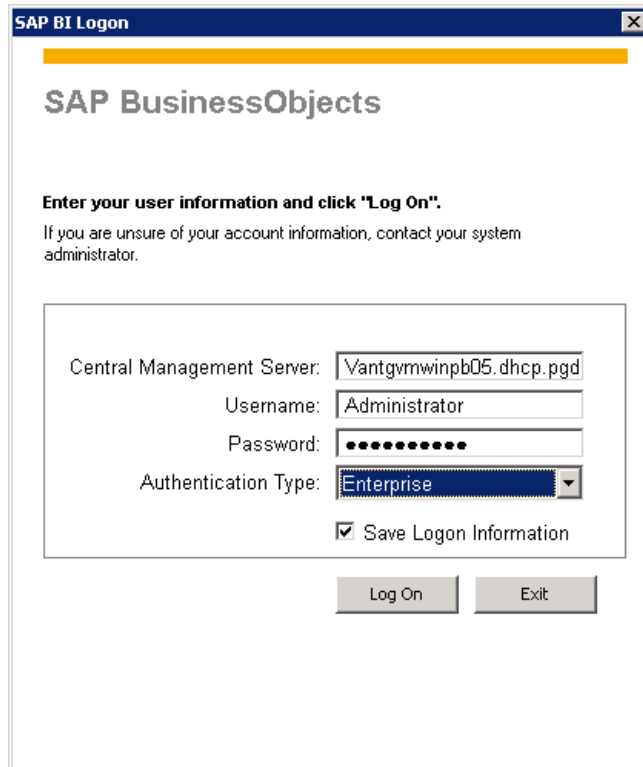


2. Select **Analysis** to begin a new review of existing 4.0 environment.
3. You can select any option based on your requirement. However, we have selected all the options, as we would like have a consolidated report before patch upgrade.



4. Choose **Next**.
5. Enter the **Central Management Server** details.
6. Enter the **Username** as administrator.
7. Enter the **Password**.
8. Select the **Authentication Type**.
9. Choose **Log On**.

Note: Cluster name is not accepted.



SAP BI Logon

SAP BusinessObjects

Enter your user information and click "Log On".
If you are unsure of your account information, contact your system administrator.

Central Management Server: Vantgvmwinpb05.dhcp.pgd

Username: Administrator

Password:

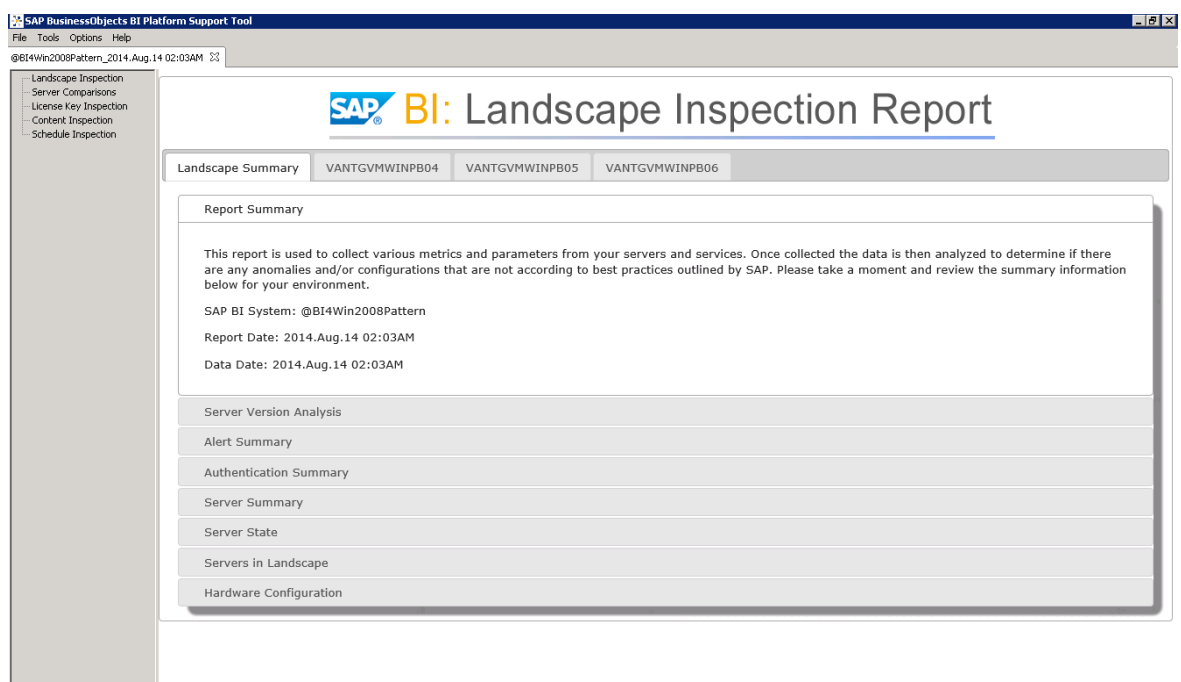
Authentication Type: Enterprise

☒ Save Logon Information

Log On Exit

After authentication, you obtain the BI Landscape inspection report as shown below. This reports provides information as per the options that you have selected in the previous screens.

For example, in the landscape inspection, this report is used to collect various metrics and parameters from your servers and services. After collecting, the data is then analyzed to determine the anomalies and/or configurations that are not according to best practices outlined by SAP.



SAP BusinessObjects BI Platform Support Tool

File Tools Options Help

@BI4Win2008Pattern_2014.Aug.14 02:03AM

SAP BI: Landscape Inspection Report

Landscape Summary VANTGVMWINPB04 VANTGVMWINPB05 VANTGVMWINPB06

Report Summary

This report is used to collect various metrics and parameters from your servers and services. Once collected the data is then analyzed to determine if there are any anomalies and/or configurations that are not according to best practices outlined by SAP. Please take a moment and review the summary information below for your environment.

SAP BI System: @BI4Win2008Pattern

Report Date: 2014.Aug.14 02:03AM

Data Date: 2014.Aug.14 02:03AM

Server Version Analysis

Alert Summary

Authentication Summary

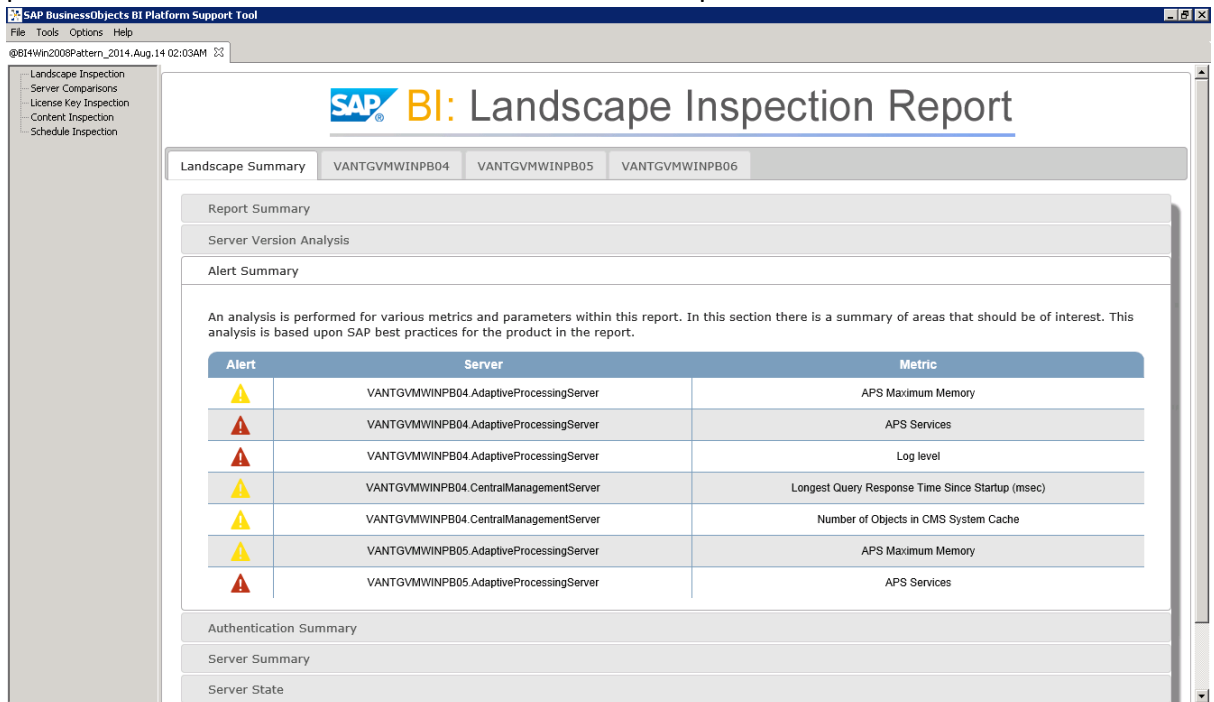
Server Summary

Server State

Servers in Landscape

Hardware Configuration








10. Choose **Landscape Summary> Alert Summary**, check if there are any anomalies as a result of inspection. In our case we see it, as all the APS services are hosted on one APS, the metric APS service is showing an alert. This is against the SAP's outlined best practices and hence needs to be corrected for better performance.



SAP BI: Landscape Inspection Report

Report Summary
Server Version Analysis
Alert Summary

An analysis is performed for various metrics and parameters within this report. In this section there is a summary of areas that should be of interest. This analysis is based upon SAP best practices for the product in the report.

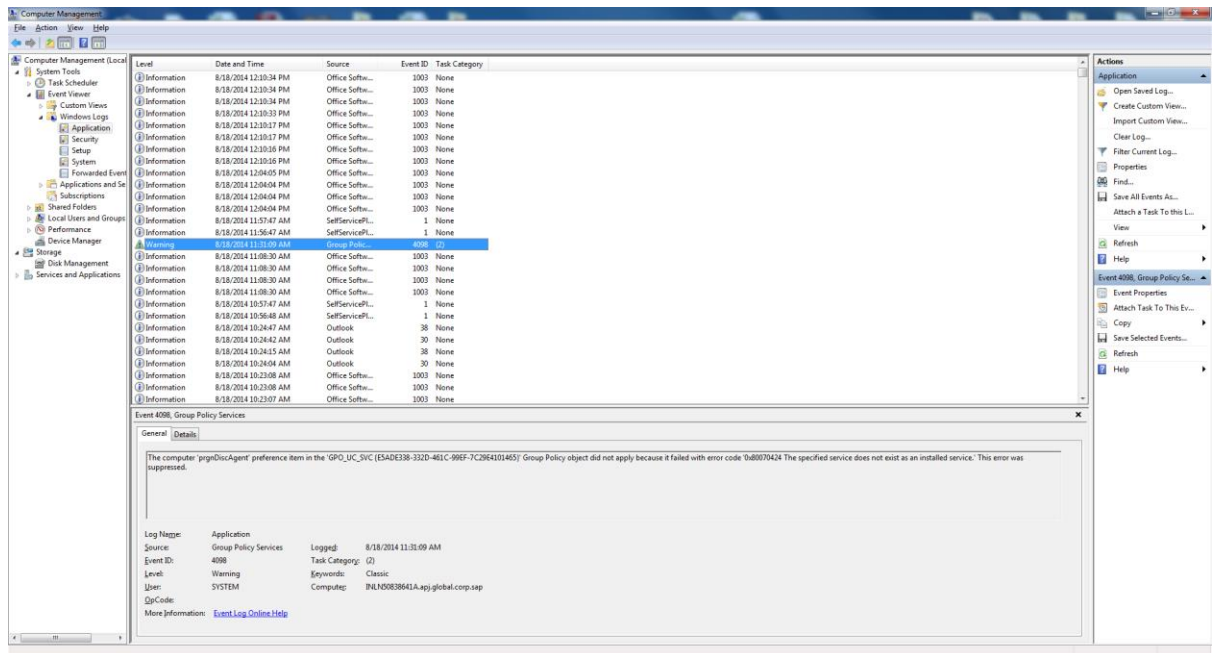
Alert	Server	Metric
	VANTGVMWINPB04 AdaptiveProcessingServer	APS Maximum Memory
	VANTGVMWINPB04 AdaptiveProcessingServer	APS Services
	VANTGVMWINPB04 AdaptiveProcessingServer	Log level
	VANTGVMWINPB04 CentralManagementServer	Longest Query Response Time Since Startup (msec)
	VANTGVMWINPB04 CentralManagementServer	Number of Objects in CMS System Cache
	VANTGVMWINPB05 AdaptiveProcessingServer	APS Maximum Memory
	VANTGVMWINPB05 AdaptiveProcessingServer	APS Services

Authentication Summary
Server Summary
Server State

Note: In the similar way, observe if there are any more anomalies in the other areas for you have chosen earlier.

11. Save the inspection report in a folder using option **File>Save Landscape Analysis**.

Window health checkup using Window event viewer



12. Disable the windows update from Service manager till the BOE upgrade is complete. This prevents windows from restating during upgrade.



13. Disable Java update.



Update Workflow: Updating SAP BusinessObjects BI 4.x system to BI 4.2

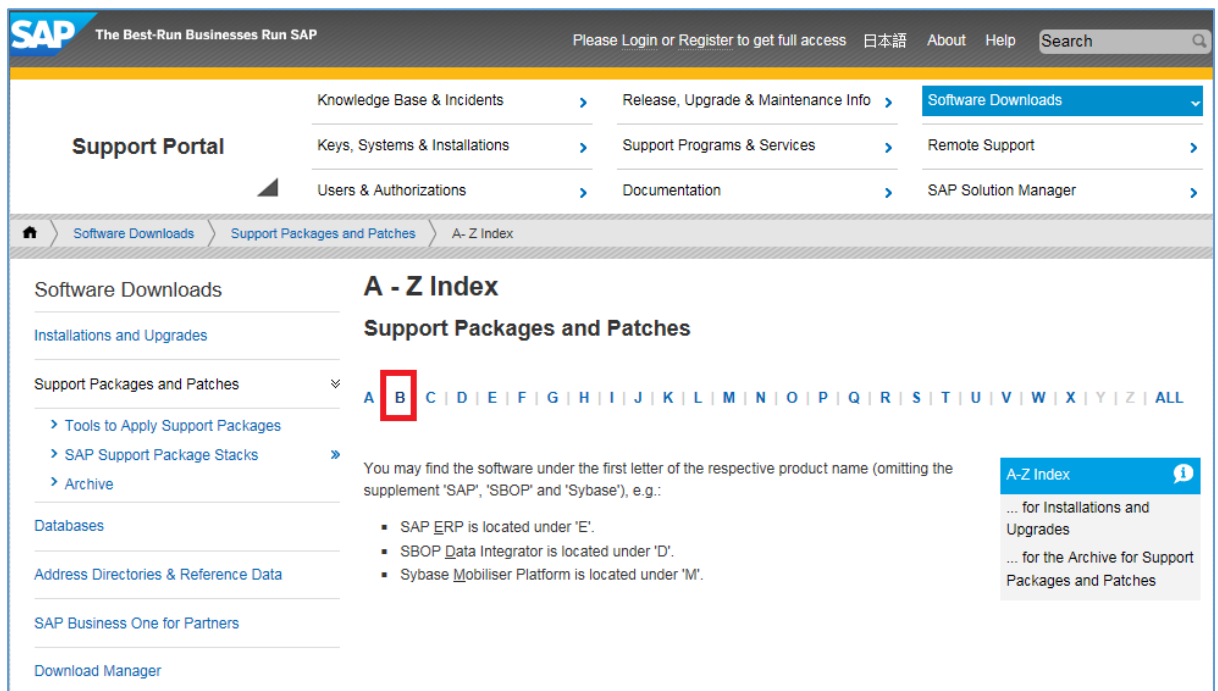
This sections talks about updating SAP BusinessObjects BI 4.x system to BI 4.2

Downloading the Software

Download the **BI 4.2 SP1 Enterprise Update Patch** and **BI4.2 SP1 Explorer Update Patch** Installers from <http://service.sap.com/swdc> (SAP service market place).

Note: you need to have the license and required credentials to download the software.

1. Log on to <https://support.sap.com/software/patches/a-z-index.html>
2. Choose **B** from the index selection.



3. Select **SBOP BI platform (former SBOP Enterprise)** from the list.

SUPPORT PACKAGES AND PATCHES - B

- [BANKING SERVICES FROM SAP](#)
banking services from SAP
- [BANKING SERVICES - LATAM](#)
banking services from SAP, localization for Latin America
- [BANKING SERVICES - LOCAR](#)
banking services from SAP, localization for Argentina
- [BANKING SERVICES - LOCCIS](#)
banking services from SAP, localization for C.I.S.
- [BANKING SERVICES LOCALIZATION](#)
localizations for banking services from SAP
- [BCM OPT MULTISYS PAYMT CON](#)
SAP Bank Communication Management, option for multisystem payment consolidation
- [BI ADDON FOR SAP GUI](#)
- [BI CONT](#)
- [BI CONT EXT FOR BI CONT](#)
- [BO BI LOCATION INTL BY GALIGEO](#)
SAP BusinessObjects BI Location Intelligence by Galileo
- [BUDGT-BASED BENEFIT SELECT](#)
budget-based benefits selection
- [NETWEAVER BUSINESS CLIENT](#)
- [SAP BANK ANALYZER](#)
SAP Bank Analyzer
- [SAP Best Practices \(BP\) for SAP All-in-One](#)
- [SAP BI ACCELERATOR](#)
SAP Business Warehouse Accelerator
- [SAP BILLING CONSOLIDATION](#)
SAP Billing Consolidation
- [SAP BPA BY REDWOOD](#)
SAP Business Process Automation by Redwood
- [SAP BPC FOR SAP NETWEAVER](#)
SAP Business Planning and Consolidation, version for SAP NetWeaver
- [SAP BPC MS STARTER KIT IFRS](#)
SAP Business Planning and Consolidation, starter kit for IFRS on the Microsoft platform
- [SAP BPC FOR MICROSOFT](#)
SAP Business Planning and Consolidation, version for Microsoft
- [SAP BUDGETING AND PLANNING](#)
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- [SAP BULK FUEL MANAGEMENT](#)
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- [SAP Business One Products](#)
- [SAP Business Process Blueprinting \(SAP BPB\)](#)
- [SAP BUS PROC TRACK F UTIL](#)
SAP Business Process Tracking for Utilities
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SAP Business ByDesign studio
- [SBOP BI platform \(former SBOP Enterprise\)](#)
 - SBOP BI PLATFORM (ENTERPRISE)
SAP BusinessObjects Business Intelligence platform
- [SYBASE BRAND MOBILISER](#)
SMS builder add-on for SAP Mobile Platform, consumer edition

4. Select **SBOP BI Platform 4.2**.

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | All

SUPPORT PACKAGES AND PATCHES - B

[Support Packages and Patches - B](#) → [SBOP BI platform \(former SBOP Enterprise\)](#) → [SBOP BI PLATFORM \(ENTERPRISE\)](#)

Loading navigation subtree. Please, wait...

SBOP BI PLATFORM (ENTERPRISE)

- [SBOP BI PLATFORM 4.1](#)
SAP BusinessObjects Business Intelligence platform 4.1
- [SBOP BI PLATFORM 4.2](#)
SAP BusinessObjects Business Intelligence platform 4.2

5. Choose **SBOP BI Platform Servers 4.2** and the appropriate OS version and download the executable from Service Market Place.

INSTALLATIONS AND UPGRADES - B

[Installations and Upgrades - B](#) → [SBOP BI platform \(former SBOP Enterprise\)](#) → [SBOP BI PLATFORM \(ENTERPRISE\)](#) → [SBOP BI PLATFORM 4.2](#)

SBOP BI PLATFORM 4.2 (INSTALLATIONS AND UPGRADES)

- [Installation and Upgrade](#)
 - [AIX](#)
 - [Linux](#)
 - [Solaris](#)
 - [WINDOWS](#)

Downloads

SBOP BI PLATFORM 4.2 -> WINDOWS

Select one or more files and click "Add to download basket". We recommend that you use the [SAP Download Manager](#) especially when downloading large files or to schedule downloads to run at a later point in time. Get more information about [multispanning and how to extract multi-part archives](#). Click on [Info](#) to request a [Side effects report](#).

[Add to Download Basket](#)
[Maintain Download Basket](#)
[Select All](#)
[Deselect All](#)

The following objects are available for download:

	File Type	Download Object	Title	Info File	File Size [kb]	Last Changed
<input type="checkbox"/>	ZIP	S1050227_1	SBOP BI PLATFORM 4.2 CLIENT TOOLS WINDOWS (32B)	Info	1671065	06.11.2015
<input type="checkbox"/>	ZIP	S1050227_2	SBOP BI PLATFORM 4.2 ENTER .NET SDK RUNTIME WINDOWS	Info	575452	06.11.2015
<input type="checkbox"/>	ZIP	S1050227_3	SAP CRYSTAL REPORTS FOR ENTERPRISE 4.2 WINDOWS (32B)	Info	500525	06.11.2015
<input type="checkbox"/>	ZIP	S1050227_4	SBOP BI PLATFORM 4.2 INTG FOR MS SHAREPOINT WINDOWS 32B	Info	679648	06.11.2015
<input type="checkbox"/>	ZIP	S1050227_5	SBOP BI PLATFORM 4.2 LIVE OFFICE WINDOWS (32B)	Info	181623	06.11.2015
<input type="checkbox"/>	EXE	S1050228_1	SBOP BI PLATFORM 4.2 SERVER WINDOWS (64B) 1/2	Info	3906250	06.11.2015
<input type="checkbox"/>	RAR	S1050228_2	SBOP BI PLATFORM 4.2 SERVER WINDOWS (64B) 2/2	Info	194066	06.11.2015
<input type="checkbox"/>	ZIP	S1050508_1	SBOP BI PLATFORM 4.2 SP01 CLIENT TOOLS WINDOWS (32B)	Info	1689631	17.12.2015
<input type="checkbox"/>	ZIP	S1050508_2	SBOP BI PLATFORM 4.2 SP01 ENTER .NET SDK RUNTIME WINDOWS	Info	575960	17.12.2015
<input type="checkbox"/>	ZIP	S1050508_3	SAP CRYSTAL REPORTS FOR ENTERPRISE 4.2 SP01 WINDOWS (32B)	Info	567412	17.12.2015
<input type="checkbox"/>	ZIP	S1050508_4	SBOP BI PLATFORM 4.2 SP01 INTG FOR MS SHAREPOINT WINDOWS 32B	Info	680475	17.12.2015

Downloading SAP BusinessObjects Explorer server 4.2

1. Go to the following path in Service Market Place.

SAP SOFTWARE DOWNLOAD CENTER

[SBOP EXPLORER](#) → [SBOP EXPLORER 4.2](#)

2. Choose **Installation and Upgrade**.
3. Download the required server edition based on the OS version that you require.

SBOP EXPLORER 4.2 (INSTALLATIONS AND UPGRADES)

- Installation and Upgrade

RELATED TOPICS FOR SBOP EXPLORER 4.2

- [Support Packages and Patches](#)
- [Product Availability, Maintenance Dates & Supported Platforms](#)

Downloads

SBOP EXPLORER 4.2

Select one or more files and click "Add to download basket". We recommend that you use the [SAP Download Manager](#) especially when downloading large files or to schedule downloads to run at a later point in time. Get more information about [multispanning and how to extract multi-part archives](#). Click on [Info](#) to request a [Side effects report](#).

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[Select All](#)
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The following objects are available for download:

	File Type	Download Object	Title	Info File	File Size [kb]	Last Changed
<input type="checkbox"/>	ZIP	S1050232_1	SBOP EXPLORER 4.2 AIX (64B)	Info	1524727	06.11.2015
<input type="checkbox"/>	ZIP	S1050232_2	SBOP EXPLORER 4.2 LINUX (64B)	Info	1700169	06.11.2015
<input type="checkbox"/>	ZIP	S1050232_3	SBOP EXPLORER 4.2 SOLARIS (64B)	Info	1384138	06.11.2015
<input type="checkbox"/>	ZIP	S1050232_4	SBOP EXPLORER 4.2 WINDOWS (64B)	Info	1216636	06.11.2015
<input type="checkbox"/>	ZIP	S1050513_1	SBOP EXPLORER 4.2 SP01 AIX (64B)	Info	1528916	18.12.2015
<input type="checkbox"/>	ZIP	S1050513_2	SBOP EXPLORER 4.2 SP01 LINUX (64B)	Info	1704439	18.12.2015
<input type="checkbox"/>	ZIP	S1050513_3	SBOP EXPLORER 4.2 SP01 SOLARIS (64B)	Info	1388405	18.12.2015
<input type="checkbox"/>	ZIP	S1050513_4	SBOP EXPLORER 4.2 SP01 WINDOWS (64B)	Info	1220801	18.12.2015

Note: SAP recommends the use of download manager.



Running the Update Workflow

As mentioned earlier, running the update workflow split into two parts - **Caching** and **Resume after Cache**.

The most time consuming part of the installation is the caching part. During caching, all the deployment units of the new software install have to be loaded into the host machine. Since the servers need to be updated one by one, the downtime is usually long.

Therefore, in order to reduce the downtime to a minimum time, we have introduced synchronous caching concurrently in all the servers, including CMS, Application Processing Servers, and Web-Tier.

The important aspect of this mechanism is that the machines can still be used by the users even during caching, as the final update can take place only after the running the **resume after cache** process.

Installation Order

The following is applicable while running the split process:

1. Caching is done in parallel on all CMS, Non-CMS, Web-Tier, and Explorer host machines. All command for caching must run concurrently in individual hosts.
2. **Resume_after _Cache** to be done sequentially, first with primary CMS. Once that is completed then with Secondary CMS. Similar procedure to be followed for all the processing servers, then Web-Tier, and then explorer servers.
3. **Resume_after_Cache** can be done in parallel, with synchronous installation in Intelligence tier first. On completion then synchronous parallel installation in Processing tier and then in Web-Tier.

Disclaimer: With BI 4.2 SP 2 onwards, it is recommended to complete resume after cache on the primary CMS machine first and then reboot the primary CMS and add the 4.2 license key through the command line or through CMC through deployed wacs. Post addition of the 4.2 SP 2 license key, resume after cache can be continued synchronously in parallel for the machines in the intelligence tier and thereafter for the Processing Tier and then the Web tier.

Few rules for Parallel Updating a Clustered deployment

1. For caching, you do not have to wait for any of the servers to finish. You can do it concurrently. Whereas, for **Resume_after_cache**, you need to wait for servers to finish one at a time. Do not run them concurrently.
2. Do not restart a host machine until all machines updating in parallel have finished updating, even if the update installation program requests a restart.
3. There must be one CMS machine available to the non-CMS host machines that is updating.



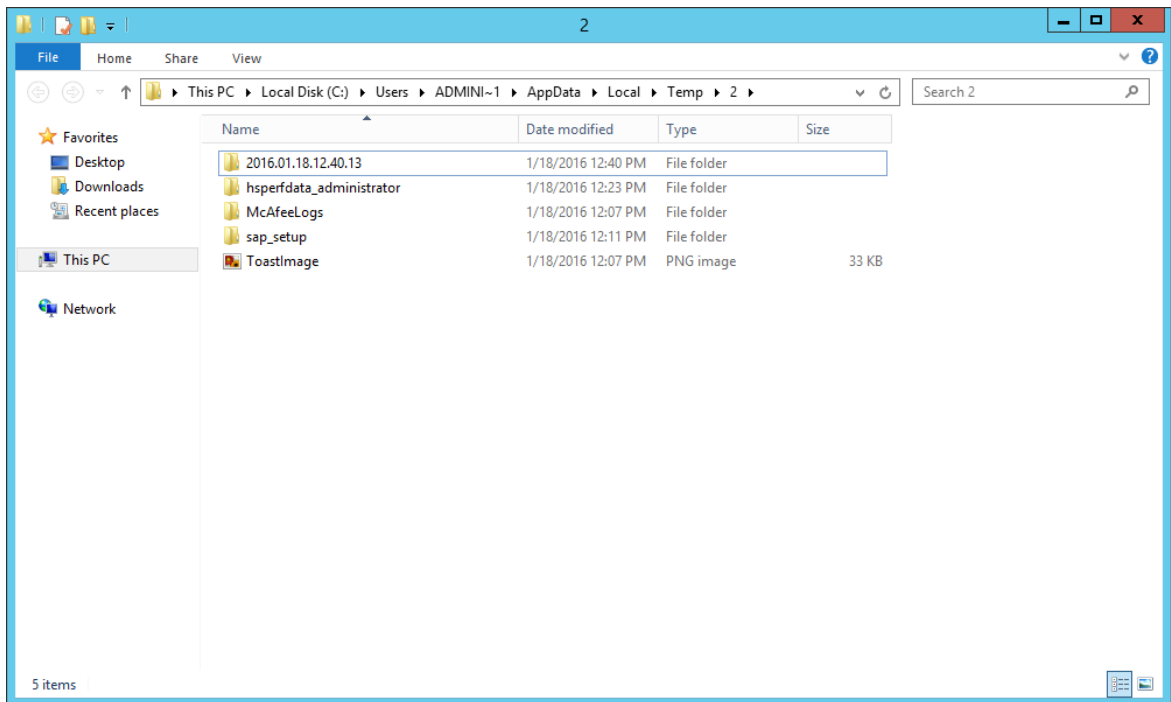
4. While running **resume_after_cache** for CMS, ensure only one CMS and one FRS server is running, the others should be in **stopped** state.
5. To **resume_after_cache** for the second CMS, you do not need to start the second CMS server.
You can just run the **resume_after_cache** setup from the command line for the second server.
6. If the CMS is clustered, the installation should automatically start as the setup will communicate with the CMS of Machine 1 that has already been updated and is in running state.
7. Do not forget to hardcode the passwords in the response file created during caching, before running the command for **resume_after_cache**, otherwise the setup will not launch and there will be errors in the error and warning logs.
8. You should not be running any additional installation, maintenance, or server administration workflows that can cause the CMS machines to restart while the updating.
9. Once all the updates are finished running in all the CMS servers, processing servers, Web-Tier and Explorer servers, restart all the CMS servers in your cluster.
10. The process needs to be repeated for every product that is installed on the machine in the cluster. For example, BI platform, Explorer, BI platform Client Tools.

If in case, you do not want to go with Parallel Caching

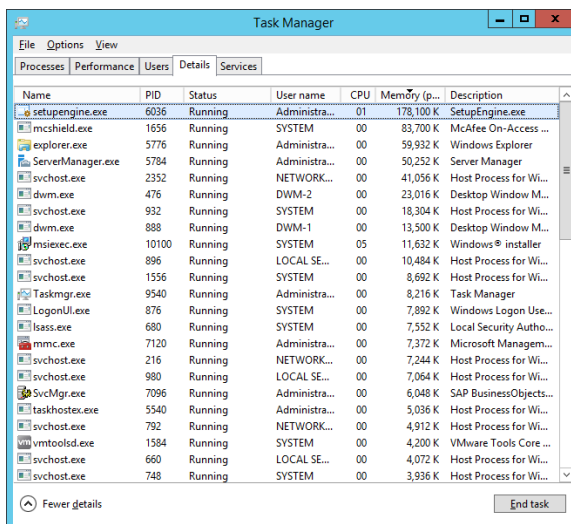
In case if you don't want to run caching installer in parallel, it is fine to run installer on one CMS server at a time, but ensure you run **resume_after_cache** on the CMS servers one server at a time and not in parallel and then move on to other tiers. Install BI Server Patch update on all the servers before installing add on components like Explorer etc. Updating clients should be the last step. Do not run simultaneous update installs. During an install, various metadata gets uploaded to the CMS database.

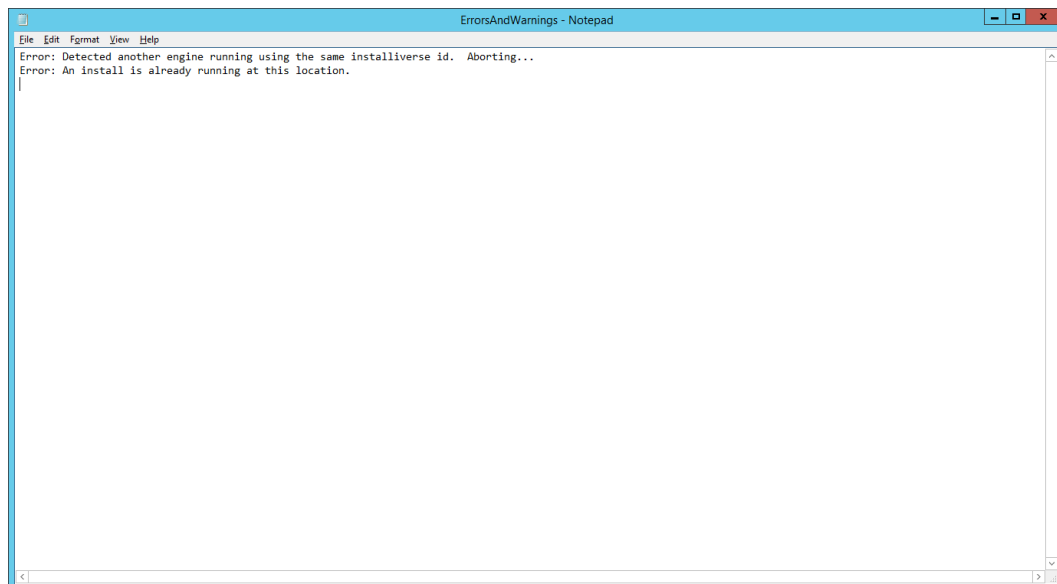
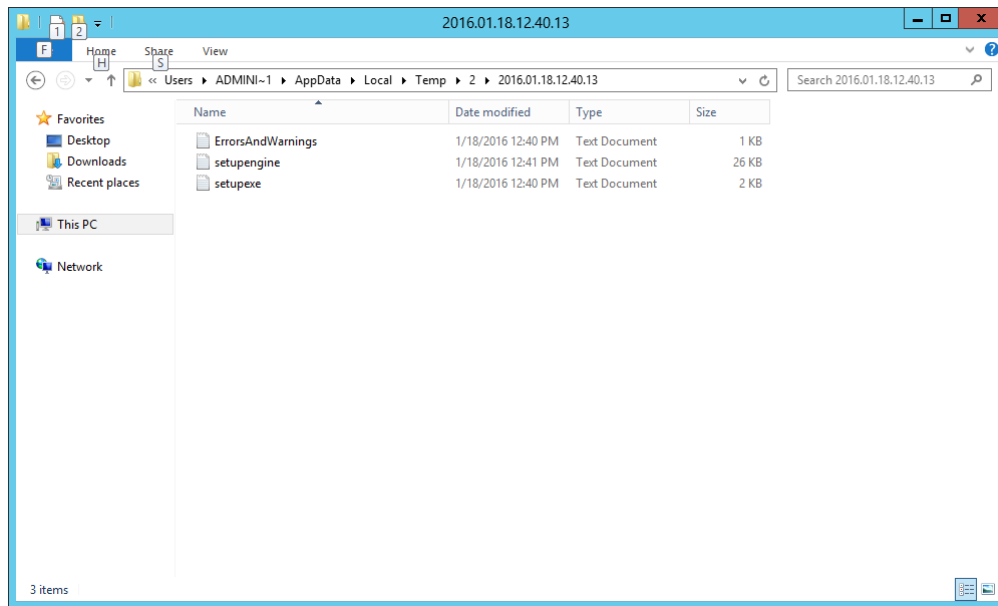
DO's and DON'Ts (Caching)

- The user running the installer for **caching** and **resume_after_cache** should have administrator privileges in the host machine.
- During **caching**, the user needs to monitor the **setup.exe** in the task manager. Also, the user needs to check whether a corresponding folder is created in **%tmp%** with subsequent launch of setup.exe.

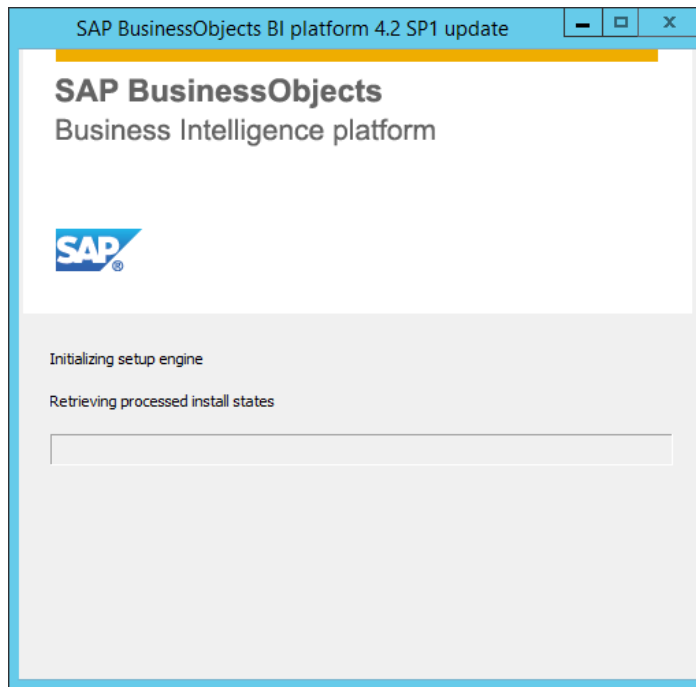


- While monitoring the **setup.exe** in task manager, if the **setup.exe** crashes, the subsequent log files will be created in the **%tmp%** folder in the form of **Errors and Warnings**. Users can check this file to take a note of the errors or warnings and rectify the same.

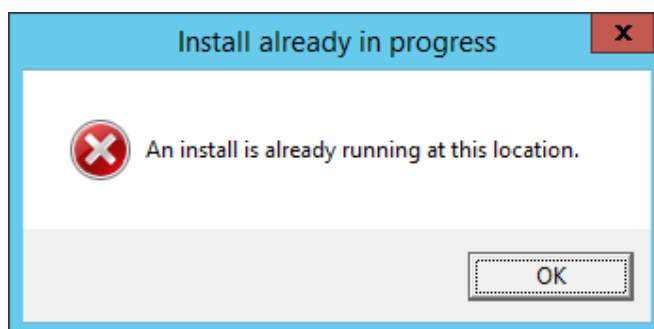




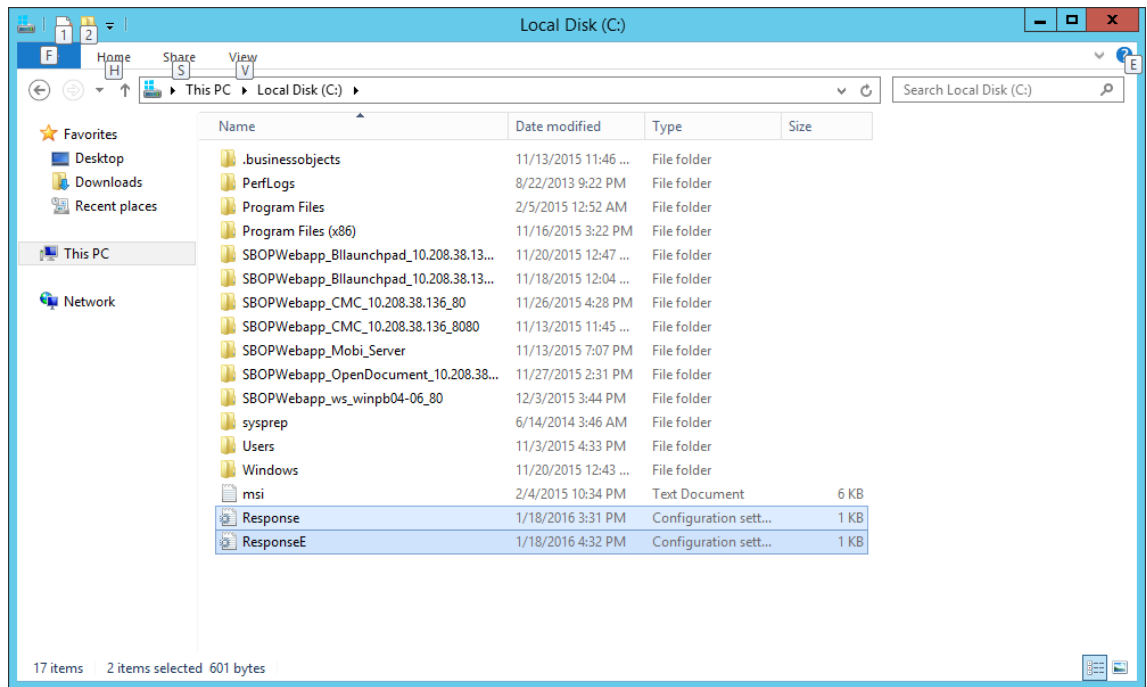
- Close the **%tmp%** window if there are no errors and warnings inside the folder.
- The user need to wait till the launch of the UI to confirm the caching process has started.



- Do not re-run the caching command from the command prompt till **setup.exe** is visible in the details tab of the task manager.
- With the subsequent launch of the UI, the logs from the temp folder will be moved to the `<Install_Location>\SAP BusinessObjects\InstallData\logs`.
- If **Suppressed reboot** error is displayed, then the machine has to be restarted.
Note: subsequent caching in different hosts can be run in parallel, however concurrent caching cannot be done on the same host. The **Error and Warning** logs shows an instance of the installer is already running. For example, caching of BOE and Explorer cannot run simultaneously in one host, but can run concurrently in different hosts. This is because of the limitation of **msexec** installer of Windows.



- For caching of multiple installers in the same host the names of the response files have to be different.



- Users can put their **BIlaunchpad.properties**, **CmcApp.properties** or any other property file in the **custom** folder prior to running the update. By doing this, any changes done in the property file will be retained even after the update.

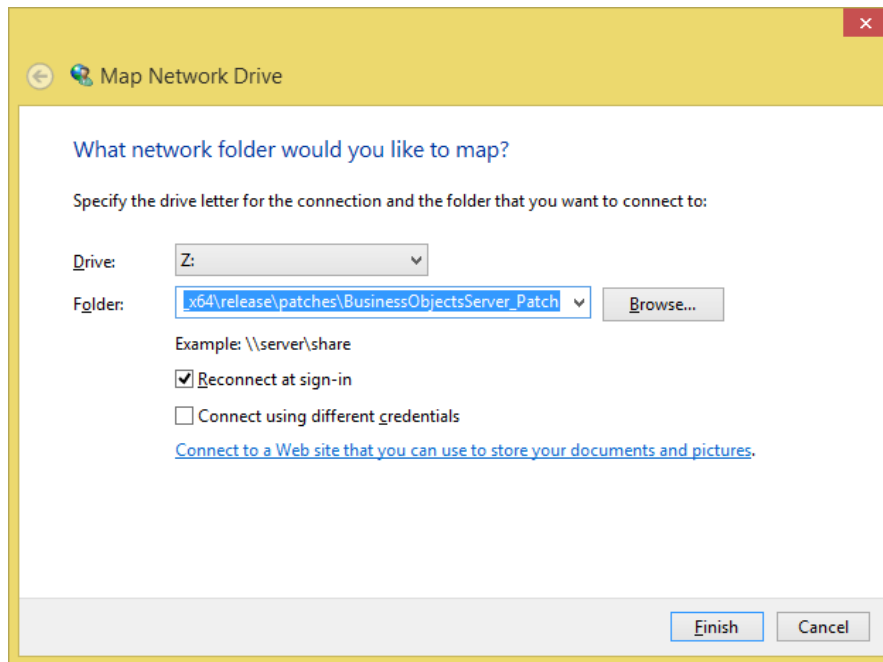
Caching the Installation

This section talks about caching the installation workflows.

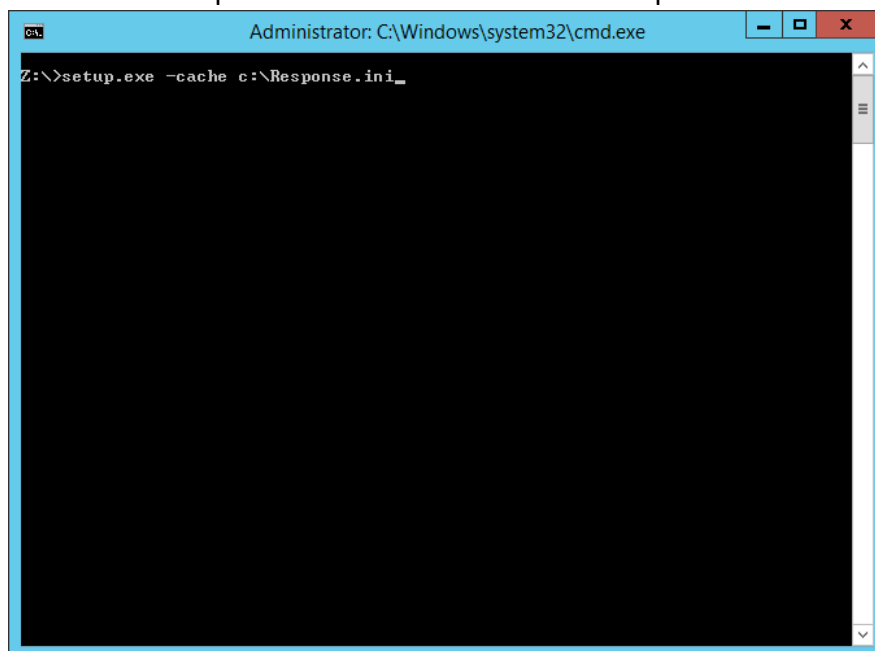
Cache Process in CMS

Updating the CMS to BI 4.2 SP1 on both servers (WINPB4-02 and WINPB4-03). We have two CMS node in our deployment WINPB4-02 PB4SIA1 and WINPB4-03 PB4SIA2.

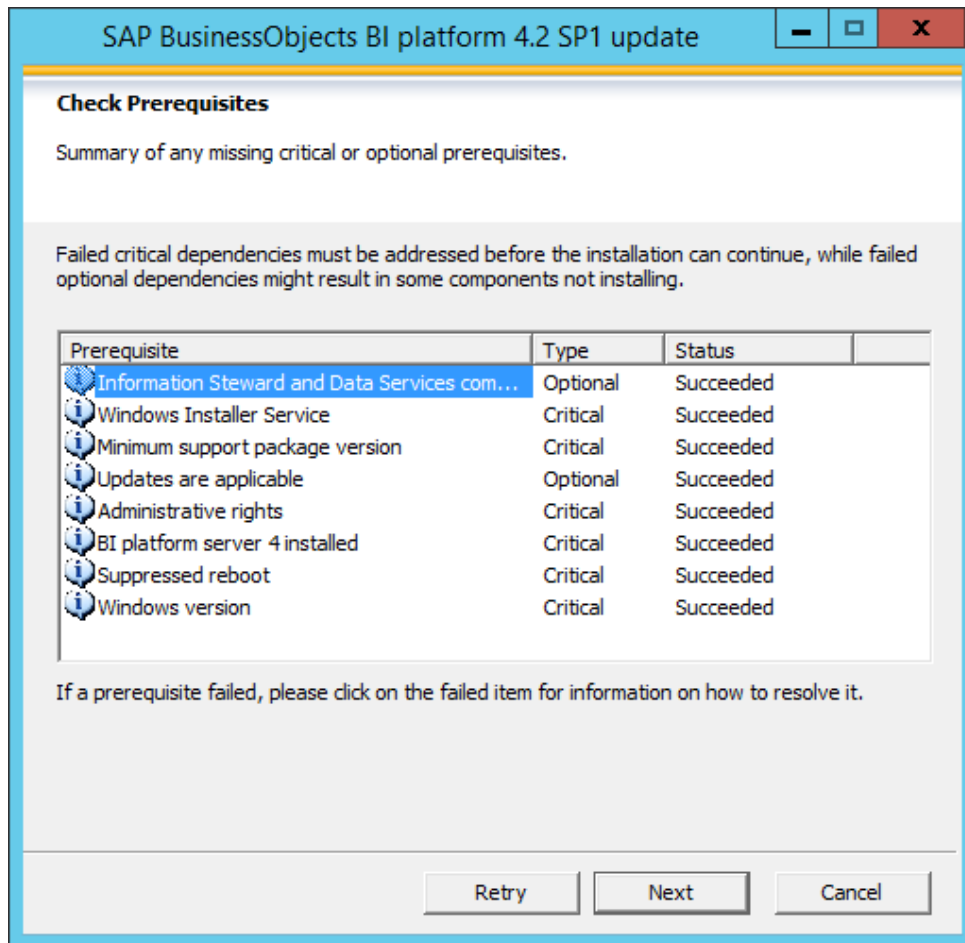
1. To map network drive, perform the following:
 - a. Open **File Explorer**,
 - b. Choose **Computer**
 - c. Navigate to **Map Network Drive**
2. Provide the path of setup.exe and map it.
You have mapped the setup.exe to network location.
3. Choose **Finish**.



4. Open command prompt, navigate to the mapped drive provided in the below screenshot and press ENTER. This will create a response file in the mentioned drive.



5. SAP Business Object installation page appears, here choose **Next**.



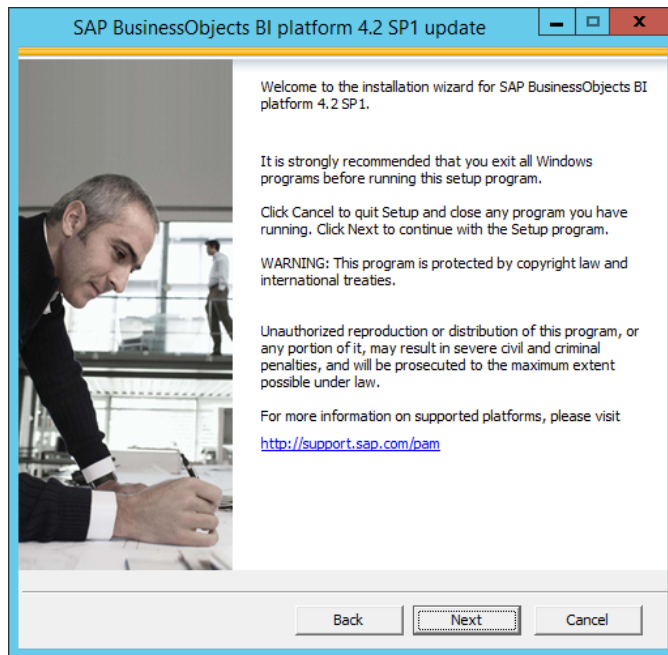
Note: If **Suppressed Reboot** failure message appears, then you must cancel the installation

- Go to **regedit>local machines>systems>Current Control set>control>session manager**

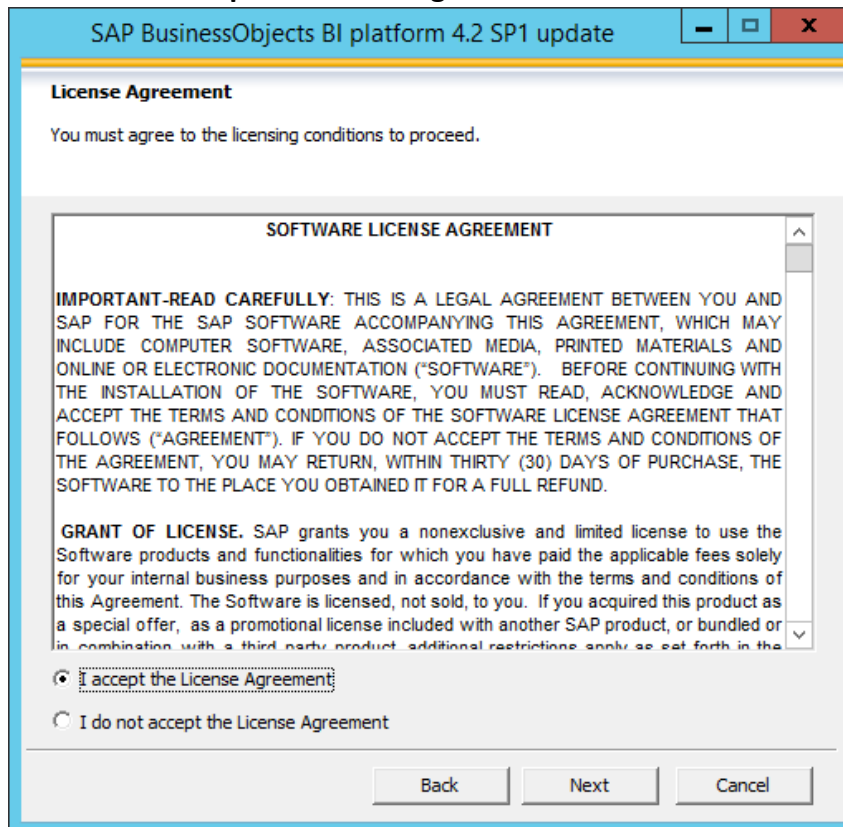
>PendingFileRenameOperations>delete file. Alternatively, you can reboot the machine if access to registry is restricted.

Note: Take the backup of registry before you make any modifications and repeat from step 4 and continue again.

- SAP BusinessObject installation wizard appears, here Press **Next**.



8. Select the **I Accept the license agreement** button and Press **Next**.



9. Provide CMS DB password and Press **Next**.

SAP BusinessObjects BI platform 4.2 SP1 update

Existing CMS Deployment Information

Specify the CMS and Administrator logon information of your existing CMS deployment.

Connection Information for Existing CMS

CMS Name: WINPB4-02

CMS Port: 6400

CMS Administrator Logon Information

User: Administrator

Password: *****

Back Next Cancel

10. Click on **Next** to start installation.

SAP BusinessObjects BI platform 4.2 SP1 update

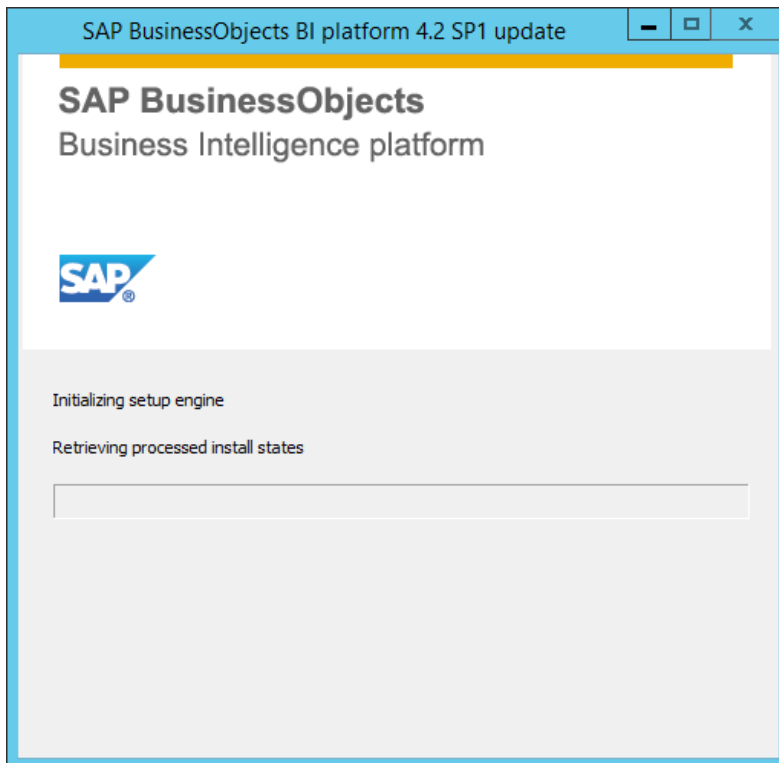
Start Installation

The installation is ready to install SAP BusinessObjects BI platform 4.2 SP1. Click Back to make changes to your installation information.

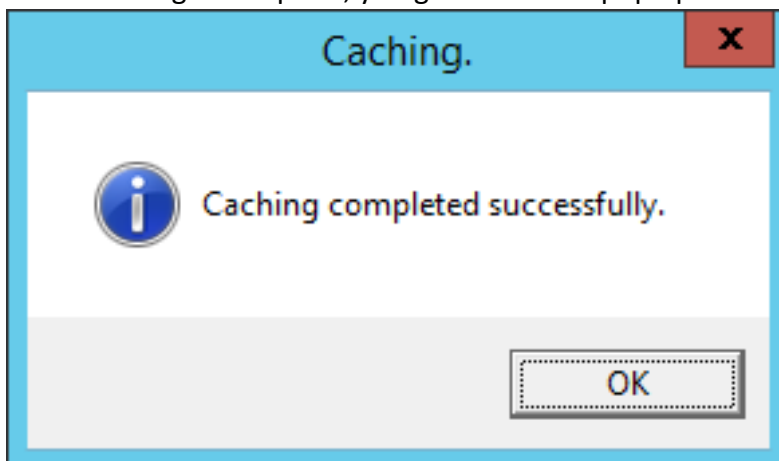
Click Next to begin the installation.

Back Next Cancel

Installation wizard appears with the progress bar.



11. Once caching is complete, you get the below pop up message.



The above steps will only perform the caching operation. You can perform the above steps concurrently in CMS 1, CMS 2, Explorer server, Web-Tier 1 and Web-Tier 2.

Note: While updating BOE Platform servers, ensure that at least one CMS and FRS is running in clustered environment. The other servers can be up or down. However, it is advisable to shut down the other servers, as it will consume resources of the OS. Therefore, shutting down the servers will free the resources consumed by other servers.

[Caching BI 4.2 SP1 Web-Tier for platform on both Tomcat Machines.](#)

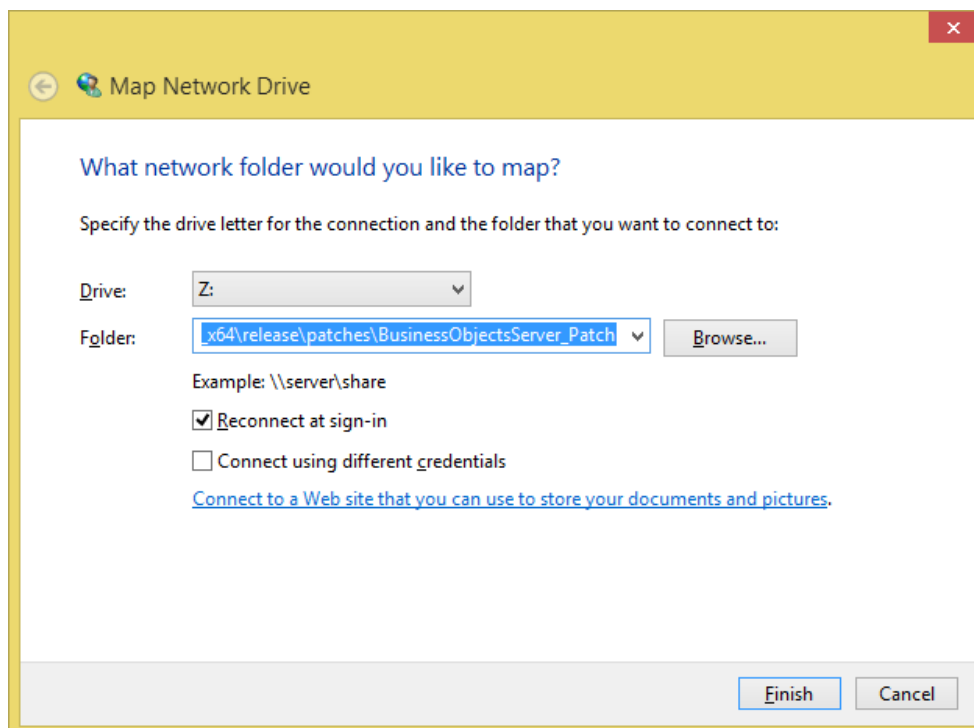
Caching BI 4.2 Update on Tomcat Servers 1 & 2 (Web-Tier components only) and on all processing tier servers (if any) in parallel. However, in our pattern book we only have Web-

Tier components and no separate or independent processing tier servers, so we will run caching on Web-Tier on Tomcat machine in parallel.

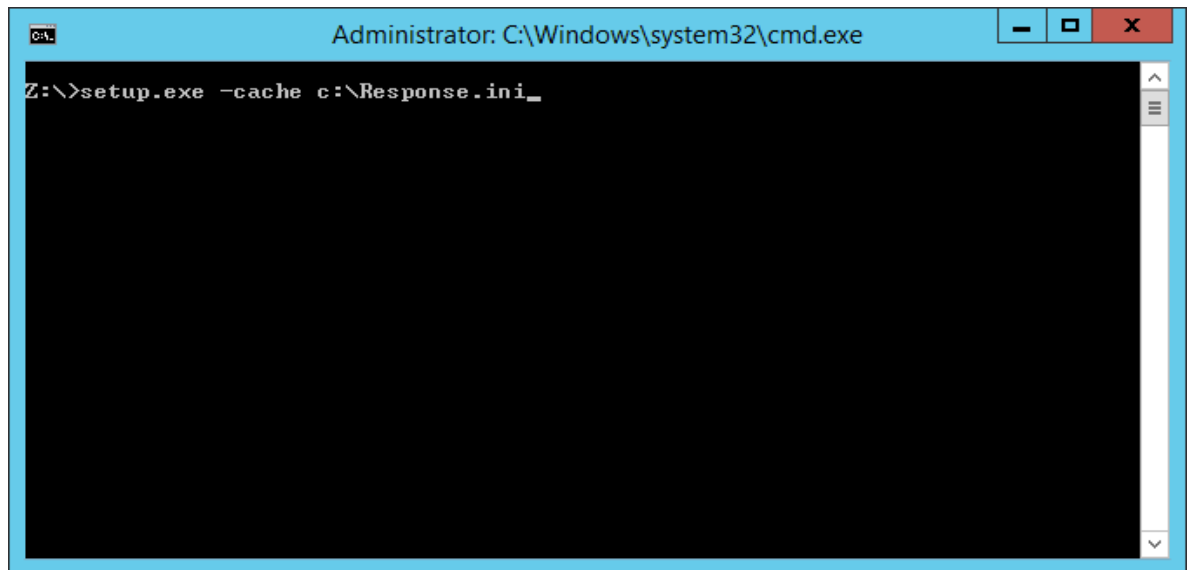
Caching BI 4.2 SP1 Web-Tier update on both Tomcat servers in parallel (WINPB04-04 & WINPB04-05).

Cache Process in Tomcat:

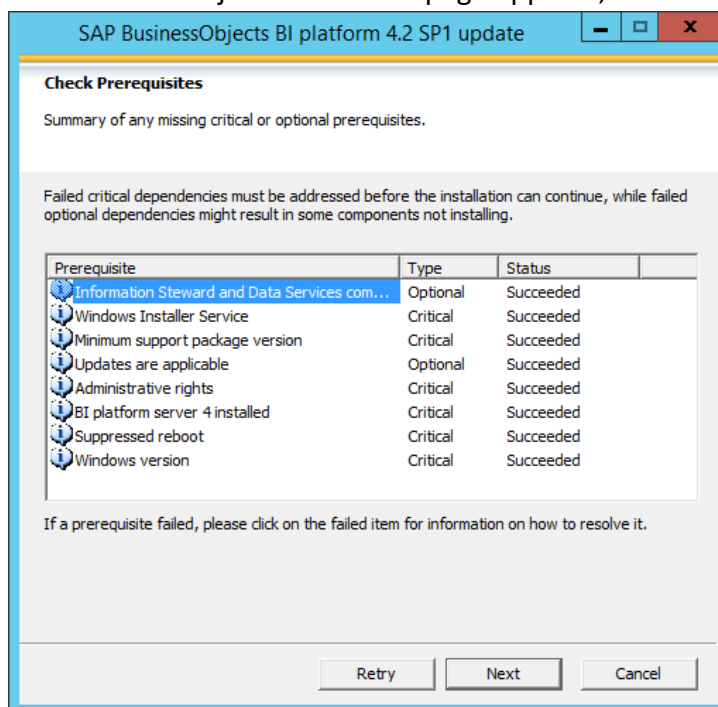
1. To map network drive, perform the following:
 - a. Open **File Explorer**,
 - b. Choose **Computer**
 - c. Navigate to **Map Network Drive**
2. Provide the path of setup.exe and map it.
You have mapped the setup.exe to network location.
3. Choose **Finish**.



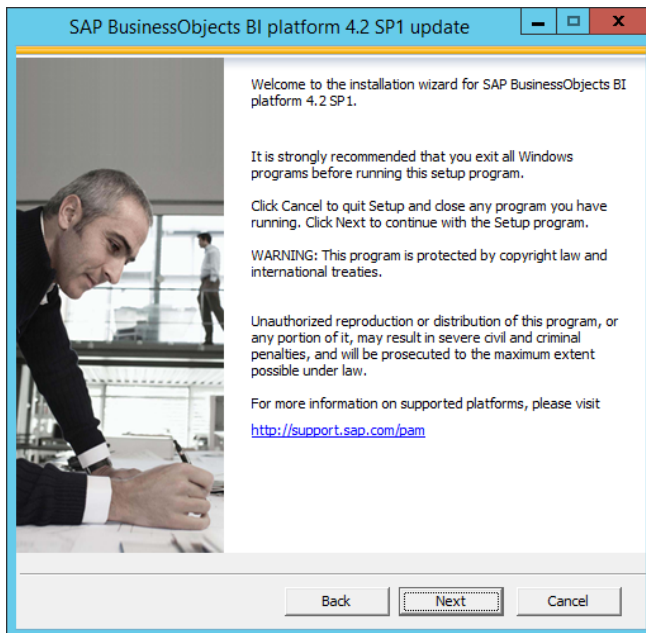
4. Open command prompt, navigate to the mapped drive provided in the below screenshot and press ENTER. For caching run the following command as shown in the command prompt for both the Tomcat machines.



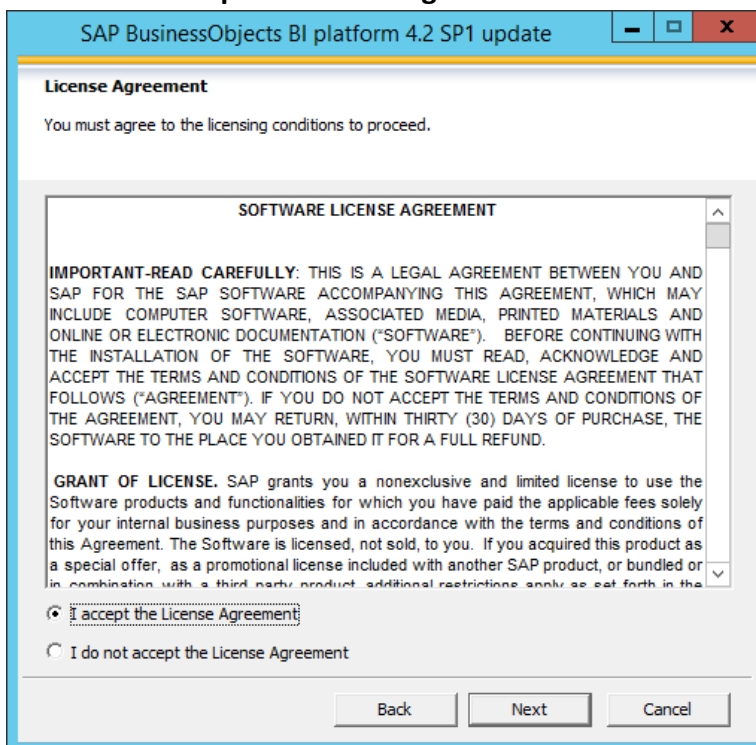
5. SAP Business object installation page appears, here choose **Next**.



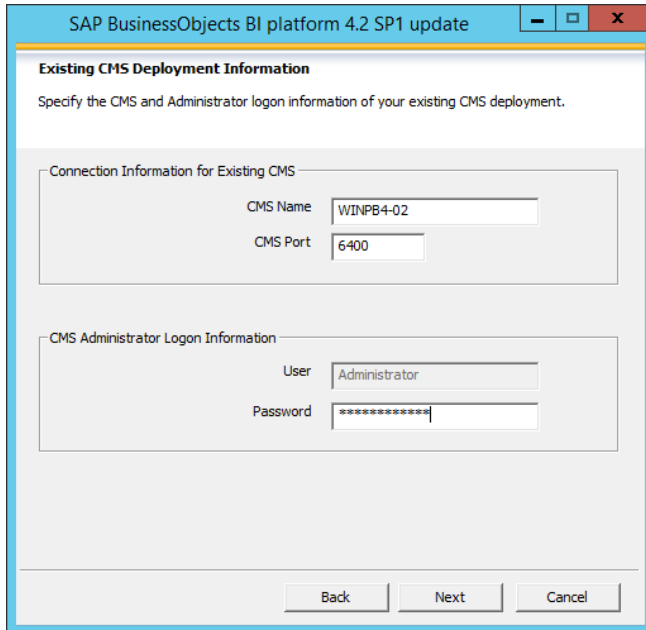
6. SAP BusinessObjects installation wizard appears, here press **Next**.



7. Select the **I Accept the license agreement** button and Press **Next**.



8. Provide the CMS DB password and Press **Next**.



SAP BusinessObjects BI platform 4.2 SP1 update

Existing CMS Deployment Information

Specify the CMS and Administrator login information of your existing CMS deployment.

Connection Information for Existing CMS

CMS Name: WINPB4-02

CMS Port: 6400

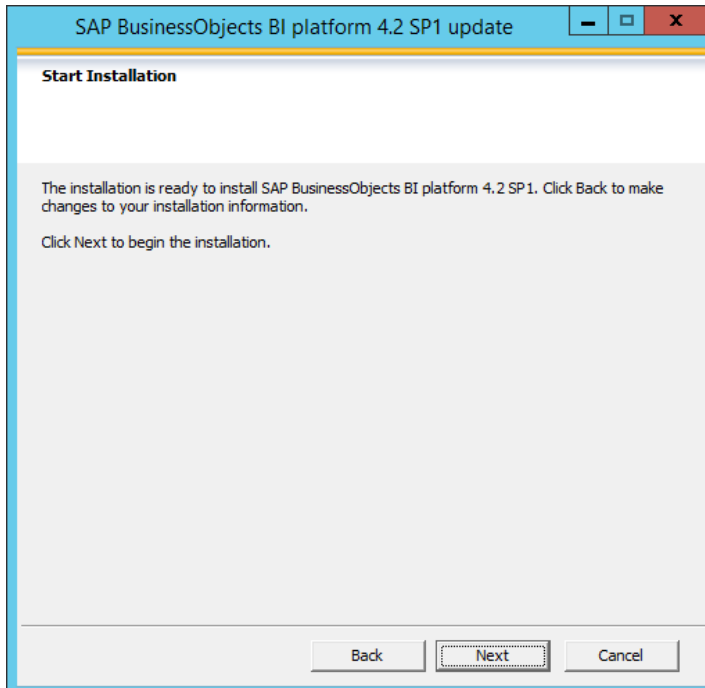
CMS Administrator Login Information

User: Administrator

Password: *****

Back Next Cancel

9. Choose **Next** to start installation.



SAP BusinessObjects BI platform 4.2 SP1 update

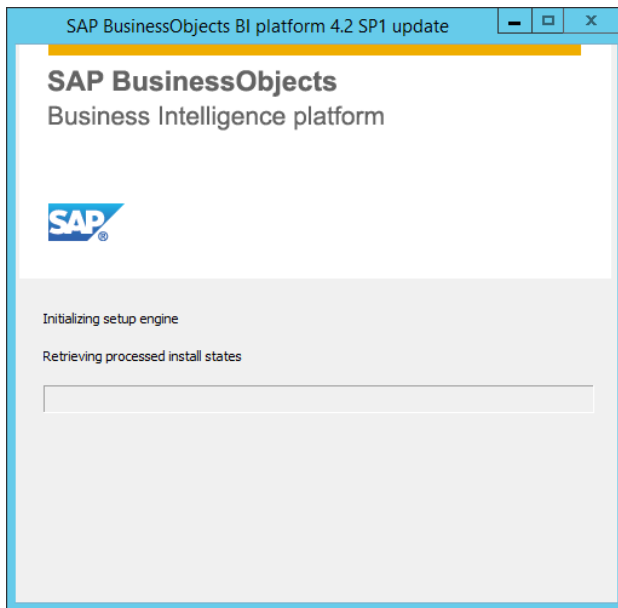
Start Installation

The installation is ready to install SAP BusinessObjects BI platform 4.2 SP1. Click Back to make changes to your installation information.

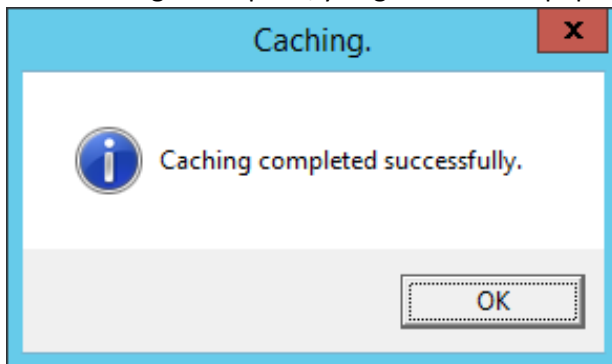
Click Next to begin the installation.

Back Next Cancel

10. Installation wizard appears with the progress bar

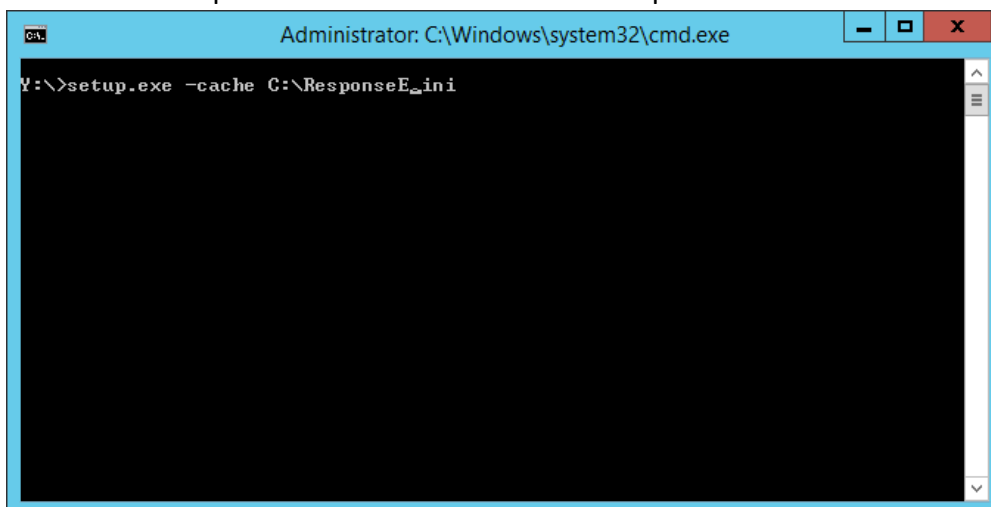


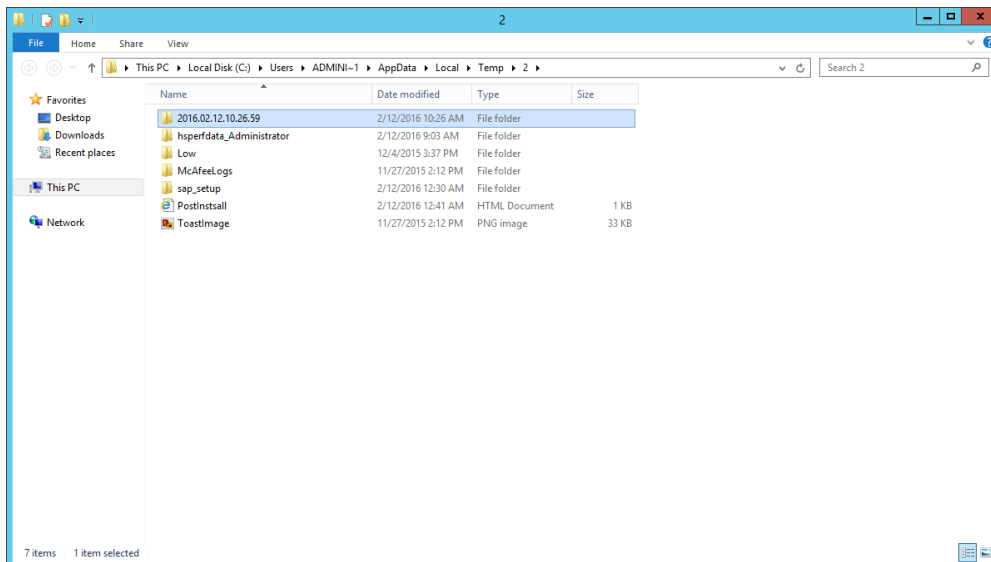
11. Once caching is complete, you get the below pop up message.



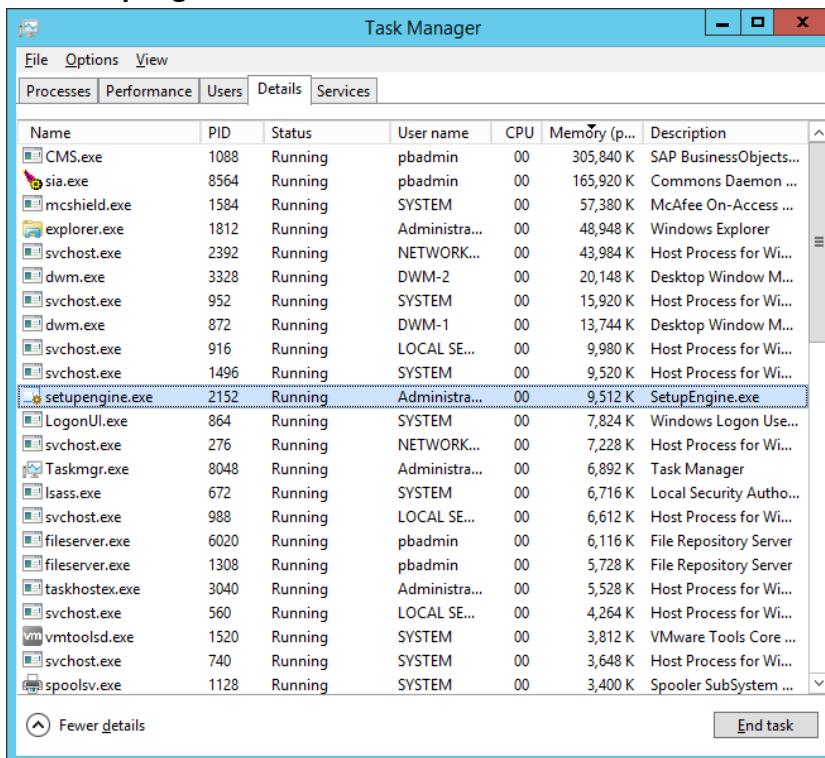
Caching Explorer CMS ADD ON 4.2 SP1 Installation on CMS Servers

1. Open command prompt, navigate to the mapped drive provided in the below screenshot and press ENTER. This will create a response file in the mentioned drive.

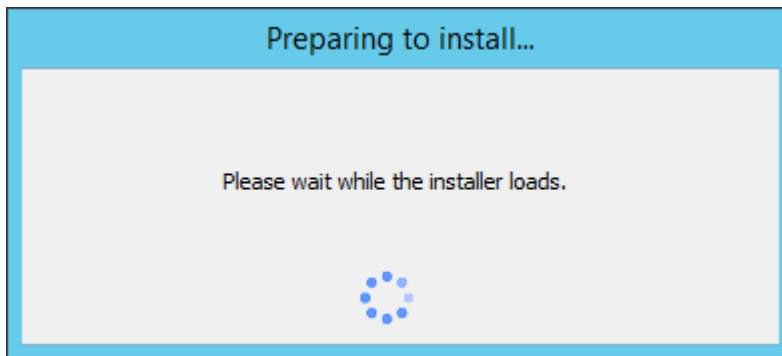




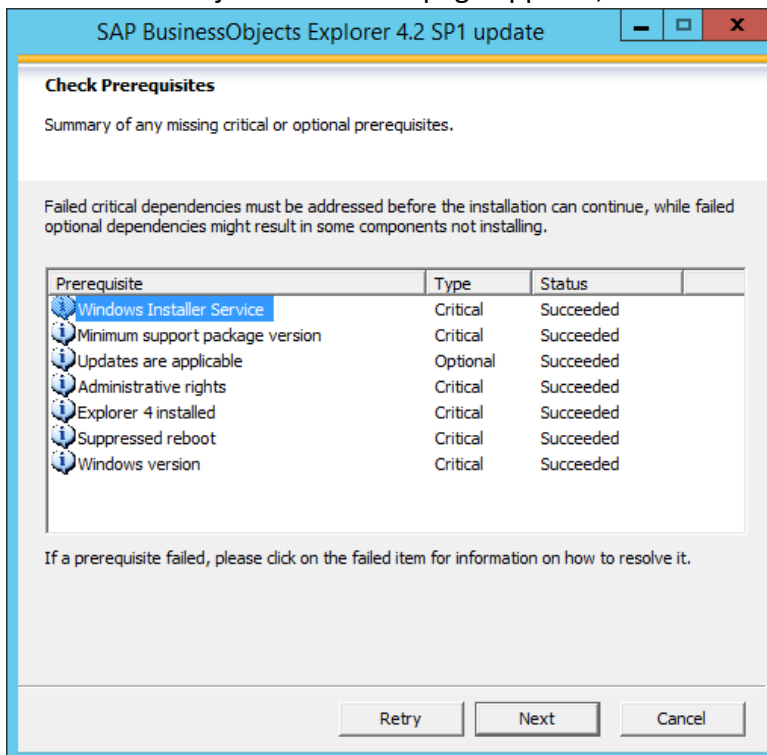
2. Navigate to **Task Manager**.
3. Choose **Details**.
4. Run **setupengine.exe**



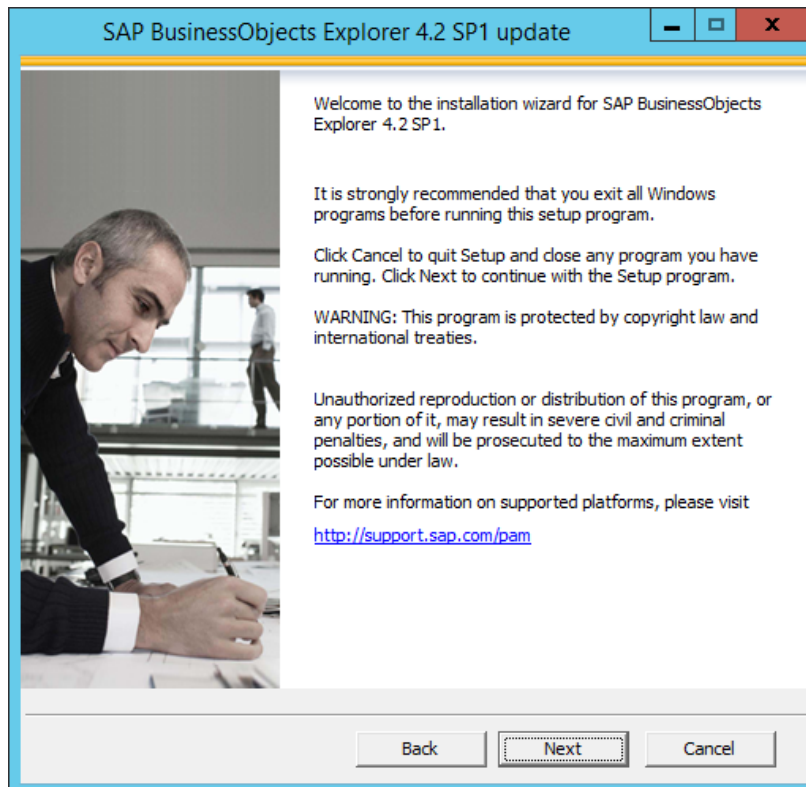
5. The installer starts loading.



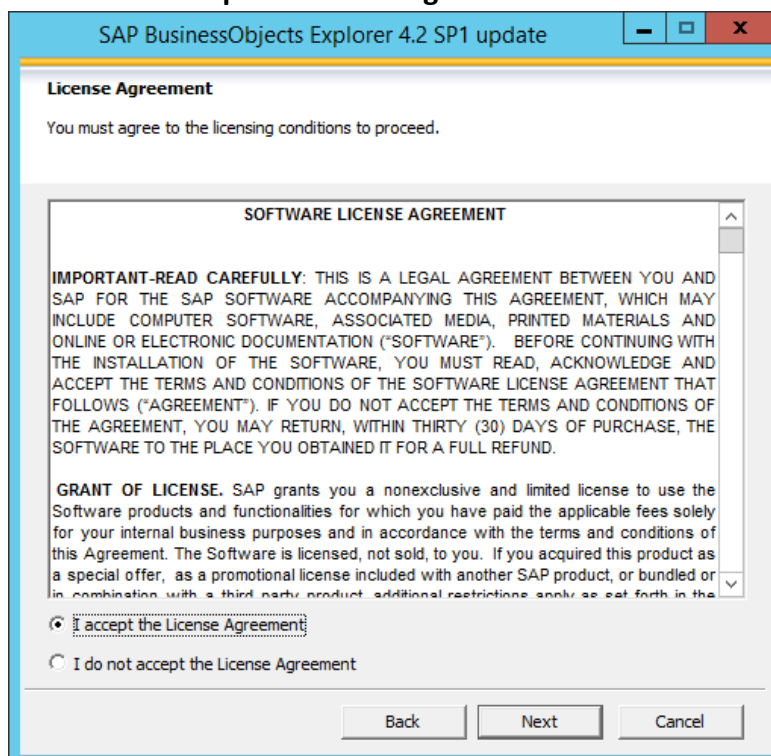
6. SAP Business object installation page appears, here Press **Next**.



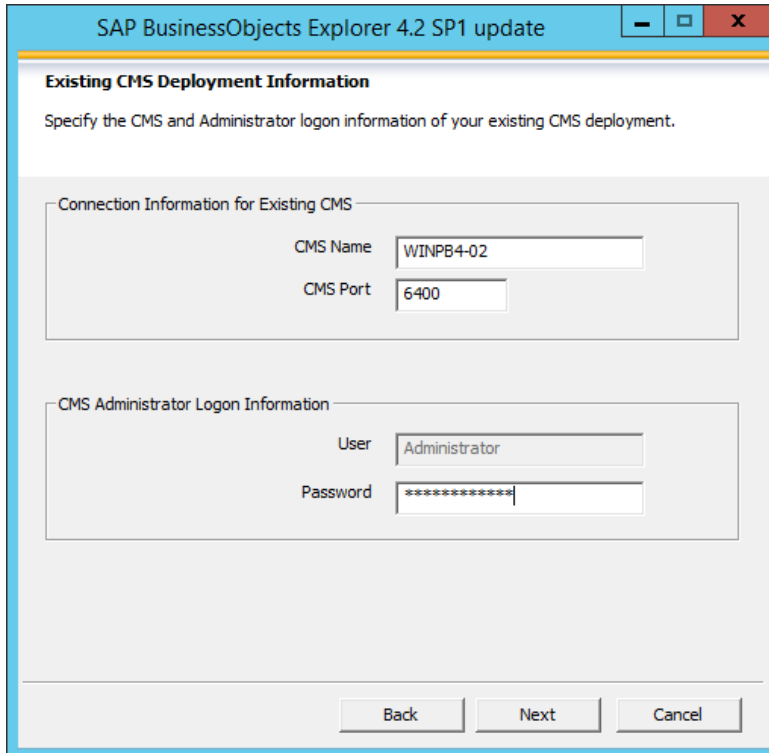
7. SAP BusinessObjects installation wizard appears, here press **Next**.



8. Select the **I Accept the license agreement** button and Press **Next**.



9. Provide the CMS DB password and Press **Next**.



SAP BusinessObjects Explorer 4.2 SP1 update

Existing CMS Deployment Information

Specify the CMS and Administrator logon information of your existing CMS deployment.

Connection Information for Existing CMS

CMS Name: WINPB4-02

CMS Port: 6400

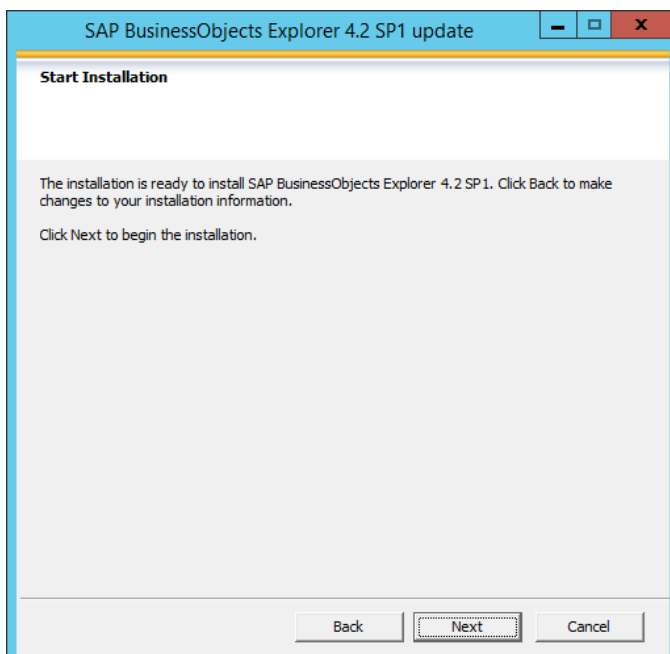
CMS Administrator Logon Information

User: Administrator

Password: *****

Back Next Cancel

10. Choose **Next** to start installation.



SAP BusinessObjects Explorer 4.2 SP1 update

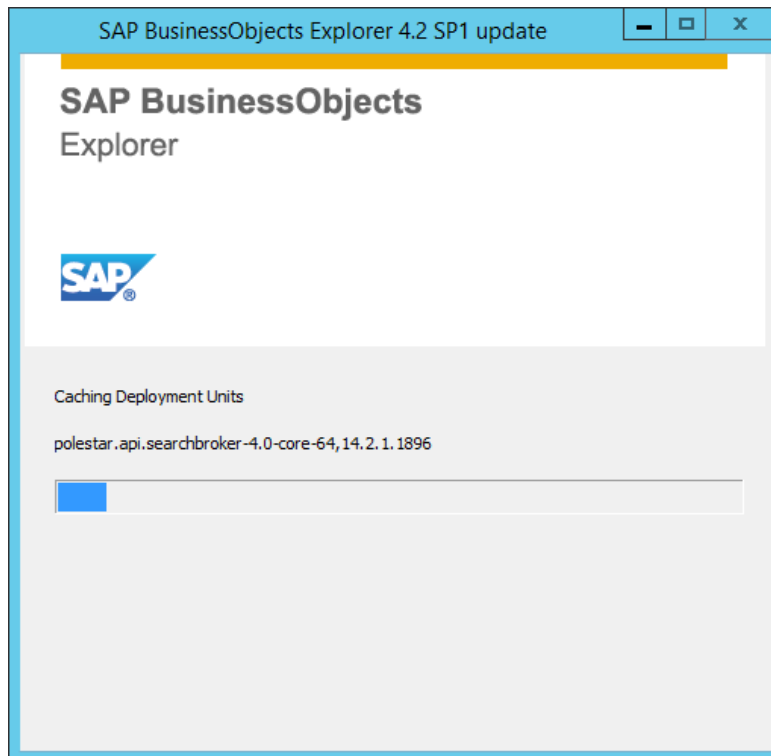
Start Installation

The installation is ready to install SAP BusinessObjects Explorer 4.2 SP1. Click Back to make changes to your installation information.

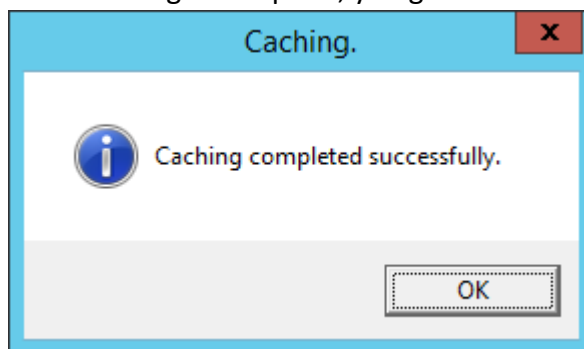
Click Next to begin the installation.

Back Next Cancel

11. Installation wizard appears with the progress bar.

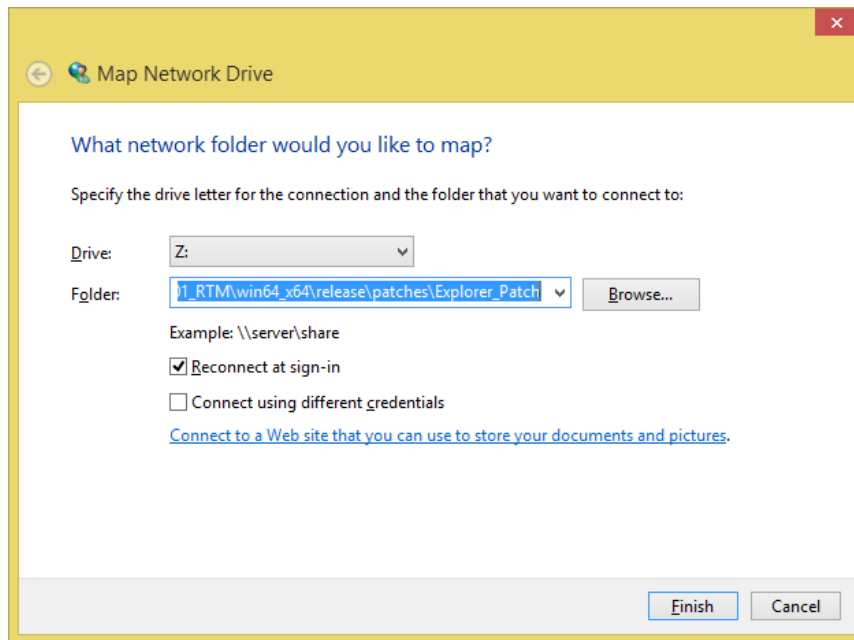


12. Once caching is complete, you get the below pop up message.

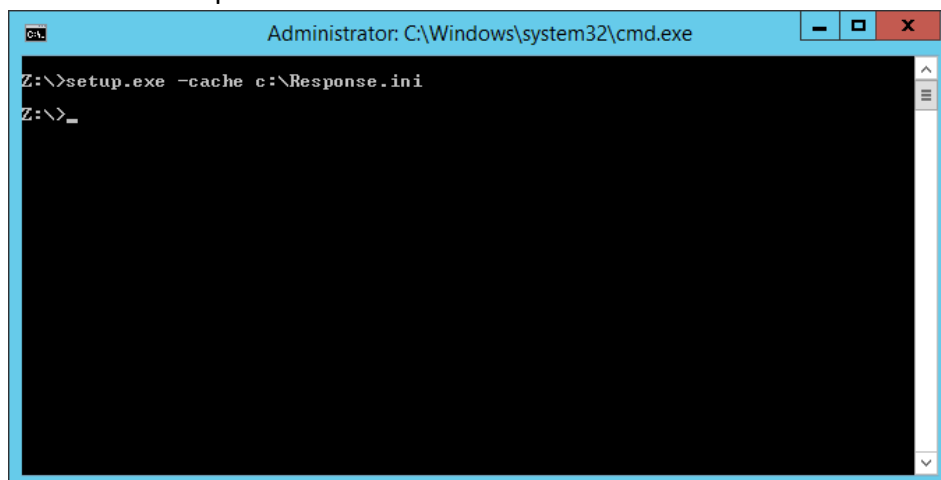


Caching Explorer 4.2 SP1 installation on Explorer server

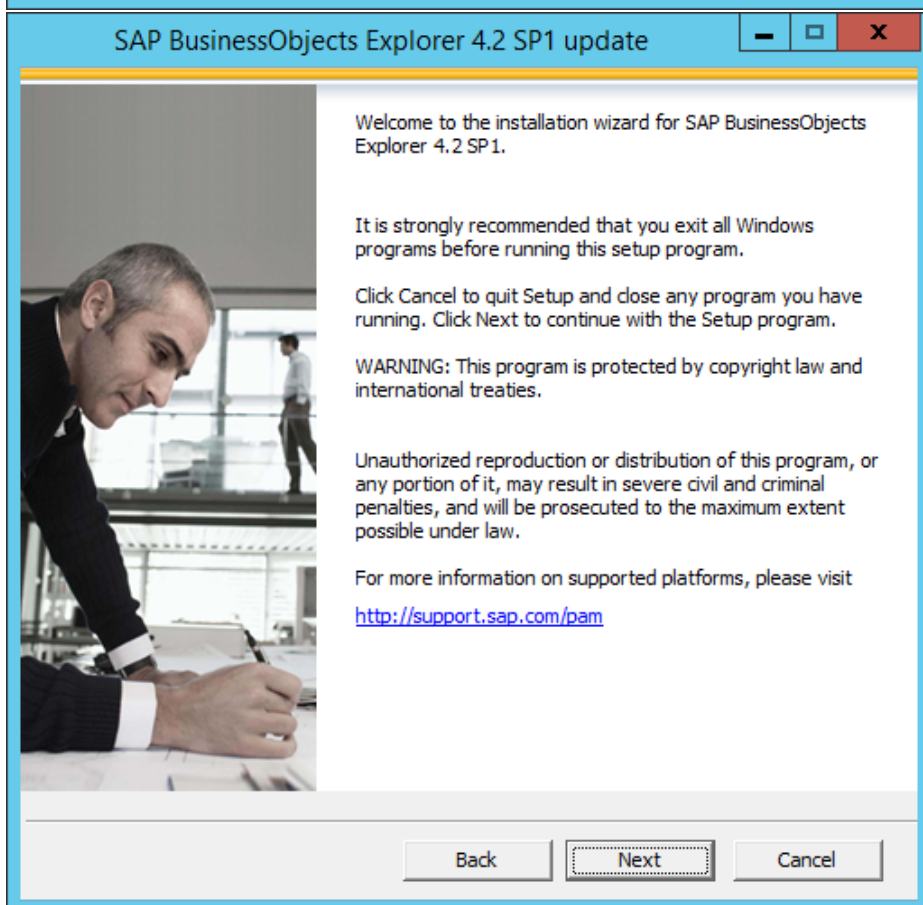
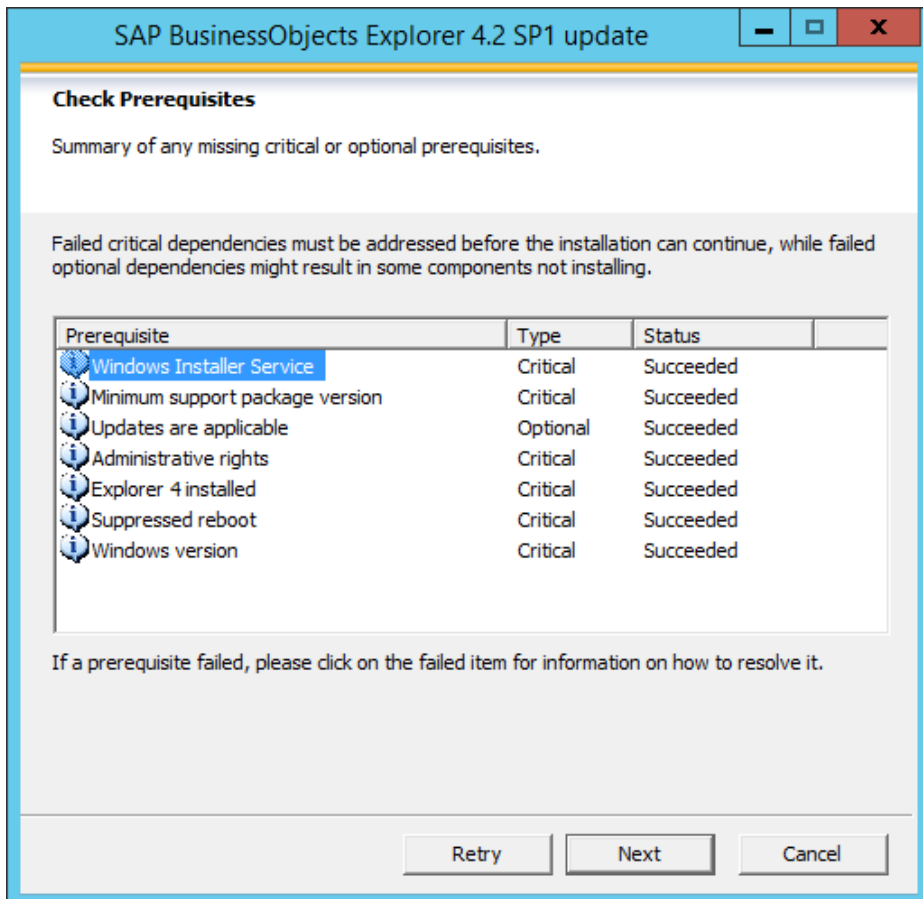
1. To map network drive, perform the following:
 - a. Open **File Explorer**,
 - b. Choose **Computer**
 - c. Navigate to **Map Network Drive**
2. Provide the path of setup.exe and map it.
You have mapped the setup.exe to network location.
3. Choose **Finish**.



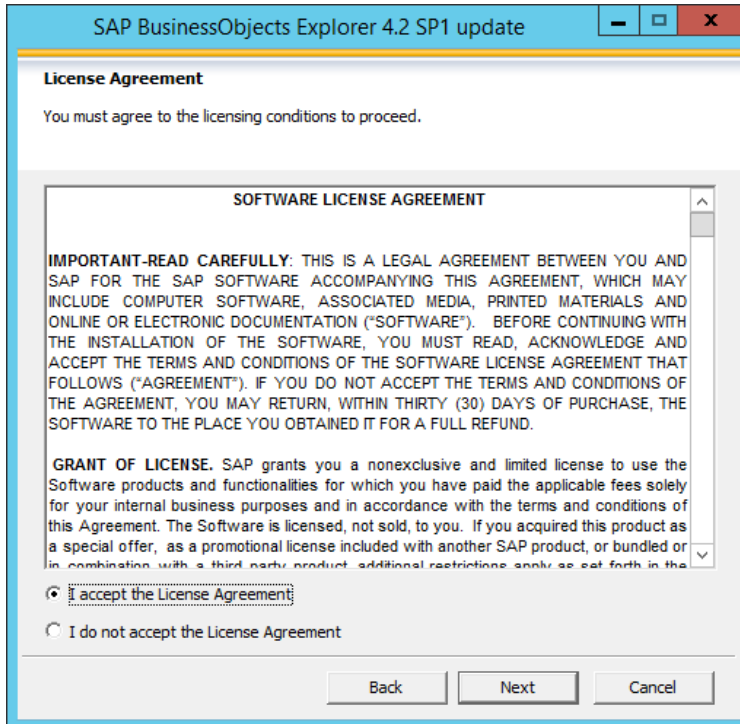
4. Open command prompt, navigate to the mapped drive provided in the below screenshot and press ENTER.



5. SAP Business object installation page appears, here Press **Next**.



6. Select the **I Accept the license agreement** button and Press **Next**.



SAP BusinessObjects Explorer 4.2 SP1 update

License Agreement

You must agree to the licensing conditions to proceed.

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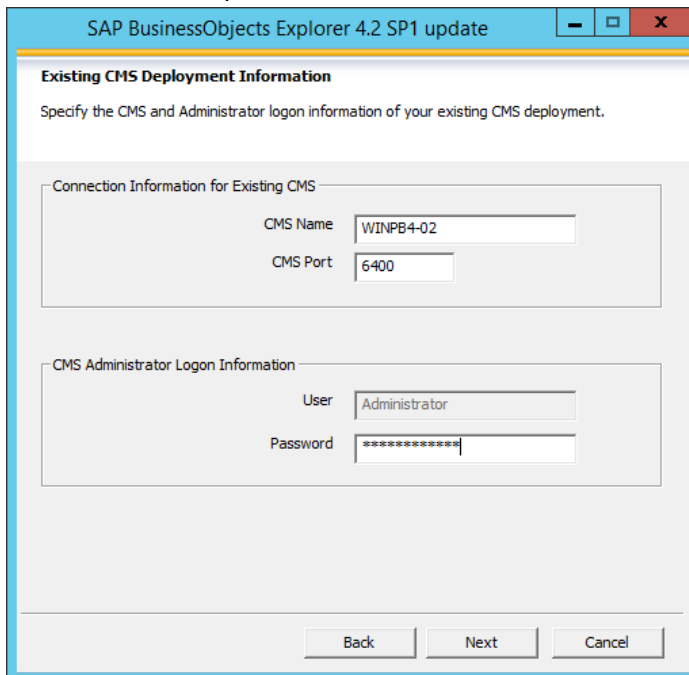
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Back Next Cancel

7. Provide CMS DB password and Press **Next**.



SAP BusinessObjects Explorer 4.2 SP1 update

Existing CMS Deployment Information

Specify the CMS and Administrator login information of your existing CMS deployment.

Connection Information for Existing CMS

CMS Name: WINPB4-02

CMS Port: 6400

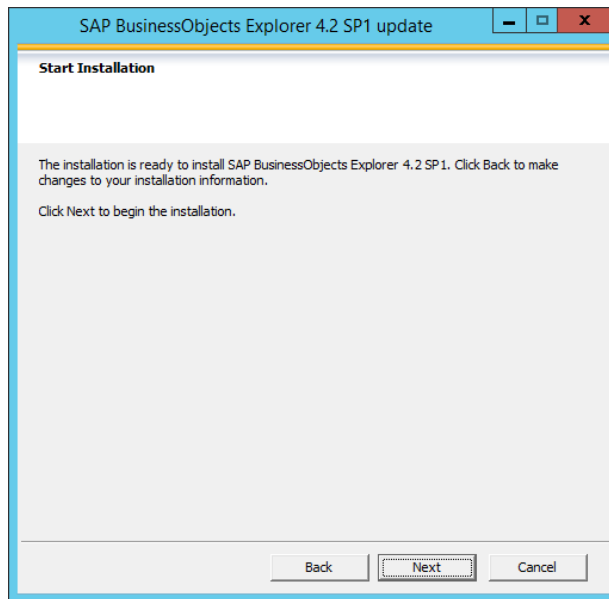
CMS Administrator Logon Information

User: Administrator

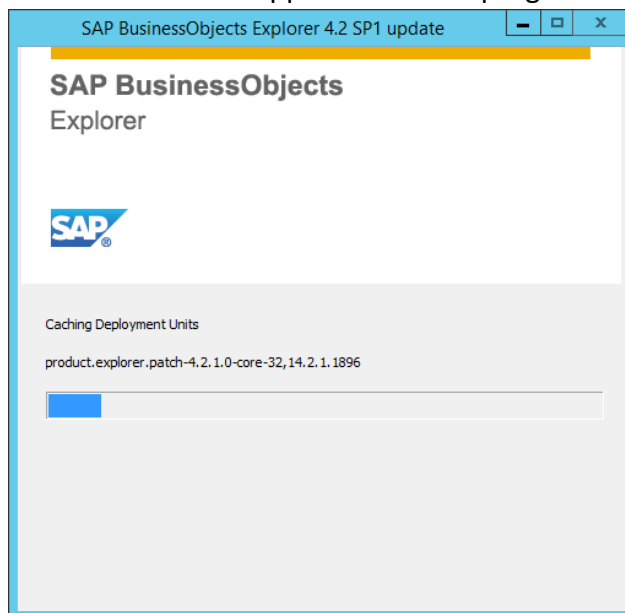
Password: *****

Back Next Cancel

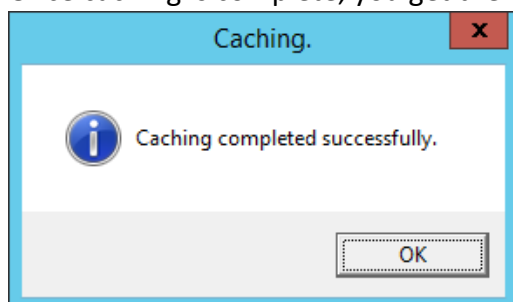
8. Choose **Next** to start installation.



9. Installation wizard appears with the progress bar.

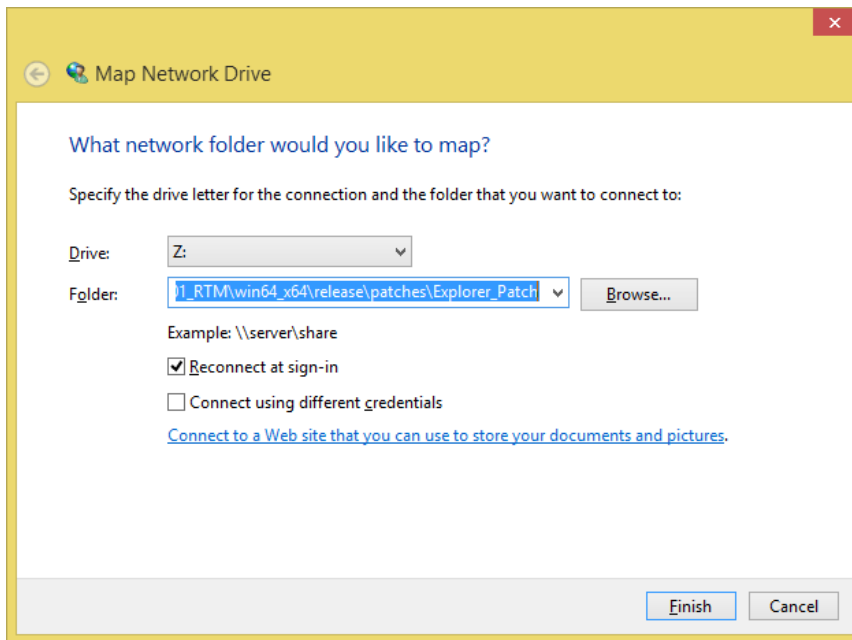


10. Once caching is complete, you get the below pop up message.

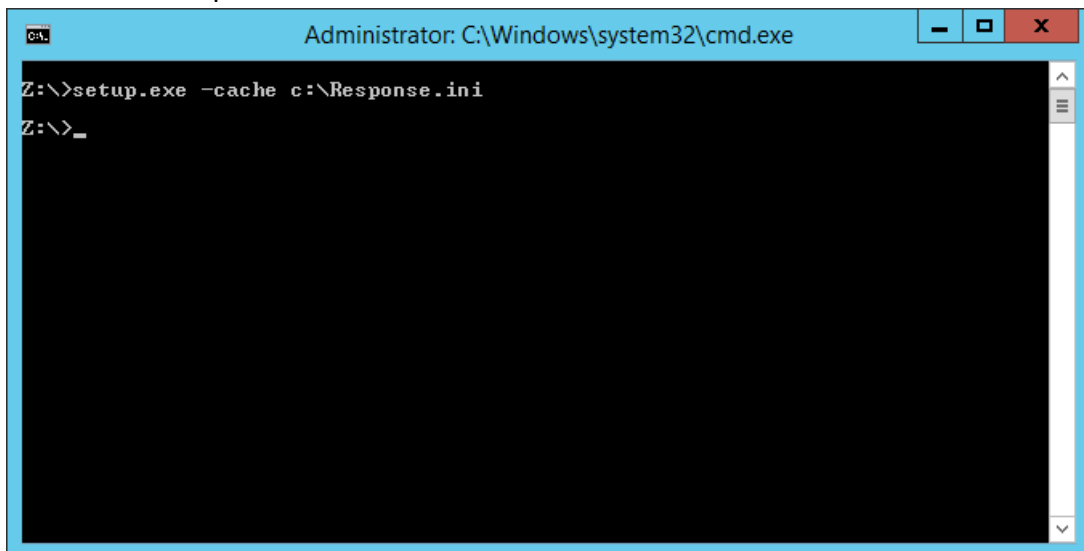


Caching BOE Explorer Web-Tier on both Tomcat servers in parallel

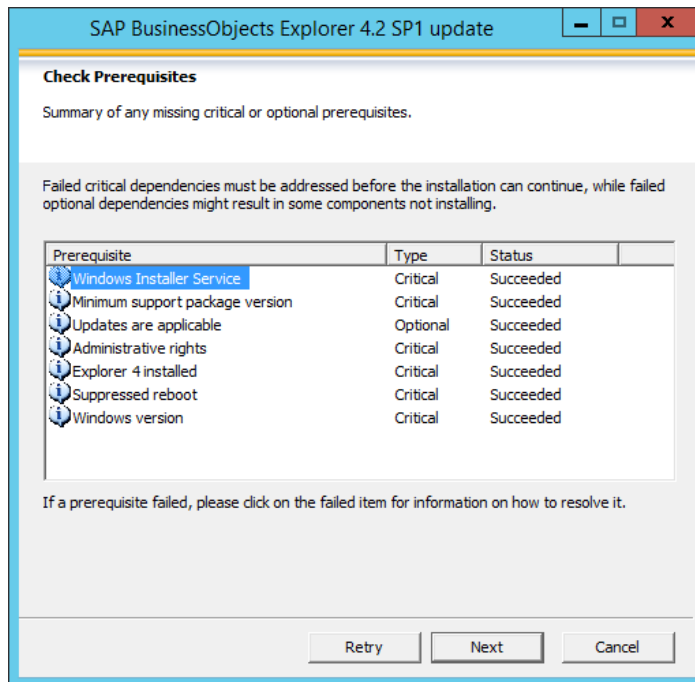
1. To map network drive, perform the following:
 - a. Open **File Explorer**,
 - b. Choose **Computer**
 - c. Navigate to **Map Network Drive**
2. Provide the path of setup.exe and map it.
You have mapped the setup.exe to network location.
3. Choose **Finish**.



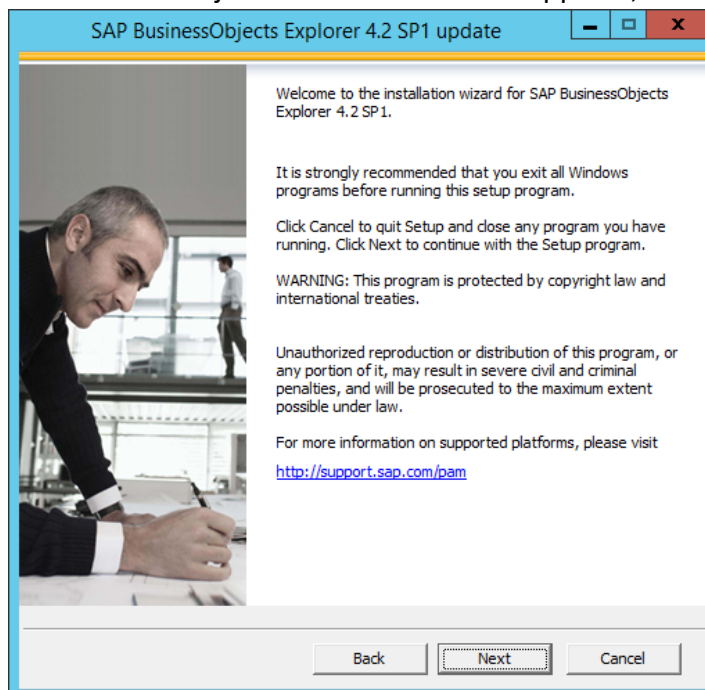
4. Open command prompt, navigate to the mapped drive provided in the below screenshot and press ENTER.



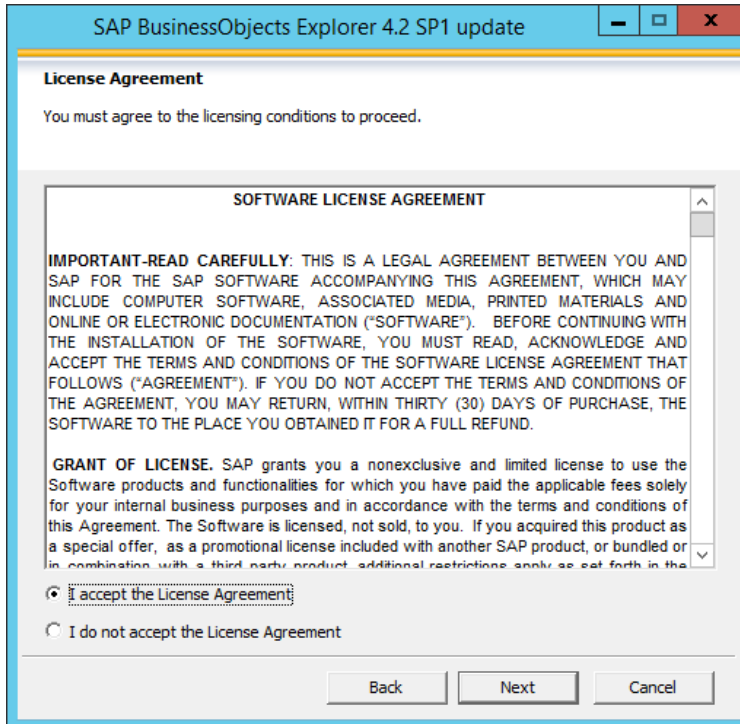
5. SAP BusinessObjects installation page appears, here Press **Next**.



6. SAP BusinessObjects installation wizard appears, here press **Next**



7. Select the **I Accept the license agreement** button and Press **Next**.



SAP BusinessObjects Explorer 4.2 SP1 update

License Agreement

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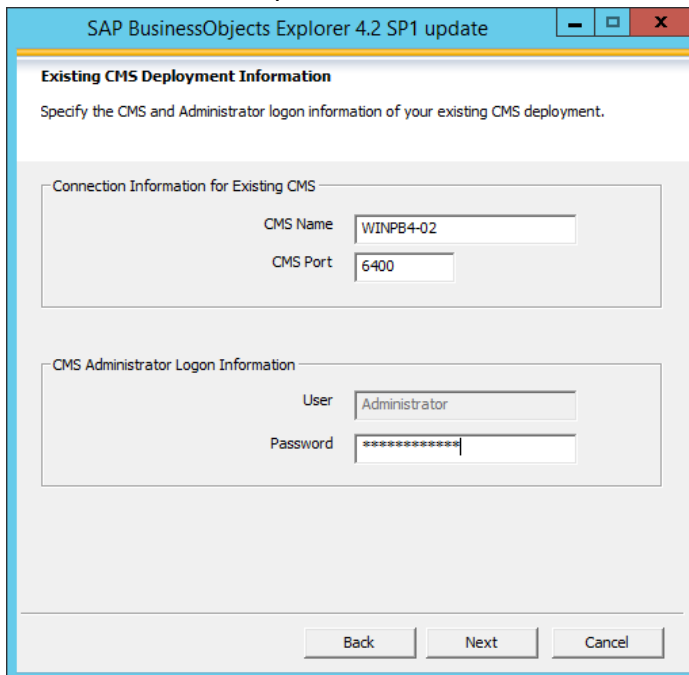
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Back Next Cancel

8. Provide the CMS DB password and Press **Next**.



SAP BusinessObjects Explorer 4.2 SP1 update

Existing CMS Deployment Information

Specify the CMS and Administrator login information of your existing CMS deployment.

Connection Information for Existing CMS

CMS Name: WINPB4-02

CMS Port: 6400

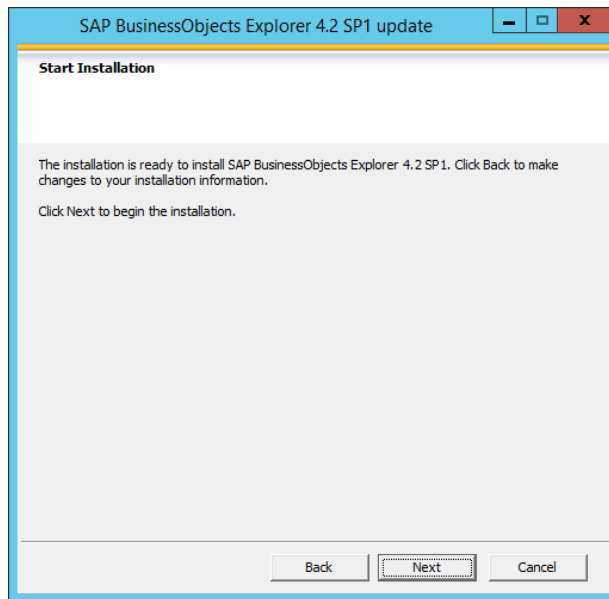
CMS Administrator Logon Information

User: Administrator

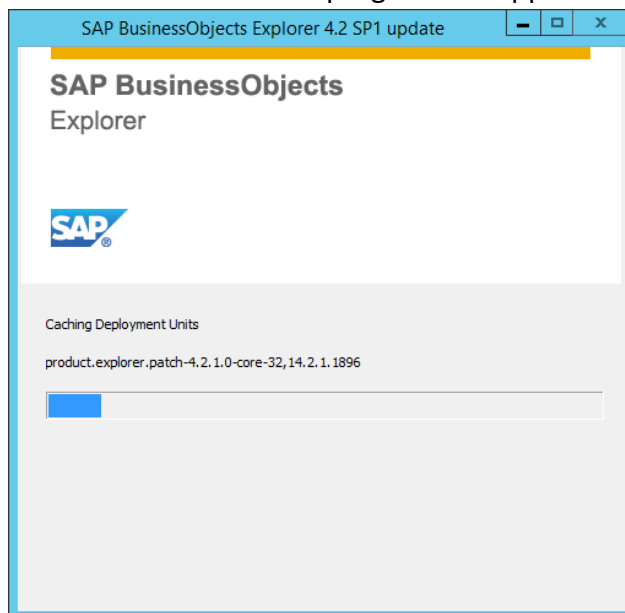
Password: *****

Back Next Cancel

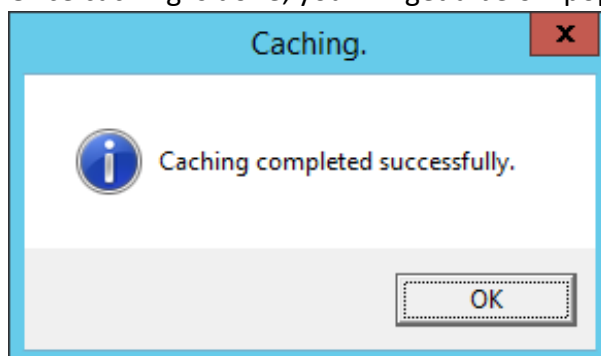
9. Choose **Next** to start installation.



10. Installation wizard with progress bar appears.



11. Once caching is done, you will get a below pop-up message.



Resuming the Installation after Cache

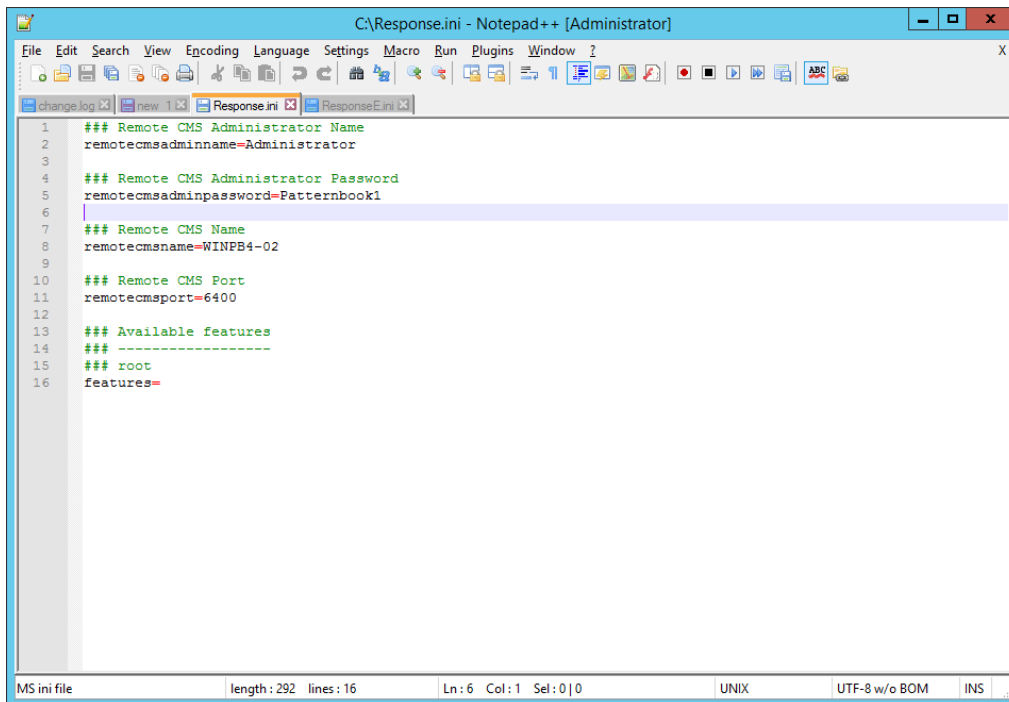
This section talks about resuming the installation after cache.

Important DO's and DON'Ts for Resume after caching

- The resume after cache can be done both sequentially and in parallel.
- Do not run **resume_after_cache** concurrently on all the hosts simultaneously. Users can **resume_after_cache** concurrently in CMS servers. Once that is completed, then you can **resume_after_cache** concurrently on Application tier. Once that is completed, then you can **resume_after_cache** simultaneously for Web-Tier and thereafter for explorer CMS add-on on CMS servers simultaneously. Once that is completed users can run **resume_after_cache** for explorer servers in parallel.
- With BI 4.2 SP 2 onwards, it is recommended to complete resume after cache on the primary CMS machine first and then reboot the primary CMS and add the 4.2 license key through the command line or through CMC through deployed wacs. Post addition of the 4.2 SP 2 license, resume after cache can be continued synchronously in parallel for the machines in the intelligence tier and thereafter for the Processing Tier and then the Web tier.
- To run **resume_after_cache** sequentially or in parallel, ensure that you have stopped the node 2 completely. However, for node 1, where the installer is supposed to run only on CMS and input and output repository servers should continue running.

Note:

- Once the **resume_after_cache** is completed, do not restart any of the SIA or any of the hosts until **resume_after_cache** is completed in all the servers (CMS+APP+WEB+explorer). With BI 4.2 SP 2 onwards, it is recommended to complete resume after cache on the primary CMS machine first and then reboot the primary CMS and add the 4.2 license key through the command line or through CMC through deployed wacs. Post addition of the 4.2 SP 2 license, resume after cache can be continued synchronously in parallel for the machines in the intelligence tier and thereafter the Processing Tier and then the Web tier.
- Ensure your Windows update service is disabled in the host, so that the machines do not get restarted post completion of the setup.
- The user with administrator privileges needs to log in to the host machine.
- User needs to have read or write access to the "%tmp%" folder.
- Before executing the **resume_after_cache** from the command prompt, the user needs to hardcode the BO user password in the **response.ini** file that had been created during initial caching in the system. Users can use any appropriate text editor (for Example: Notepad++) to change the password in the response file. As the response file is sensitive, ensure that there aren't any extra spaces or any alignment change to the original file.

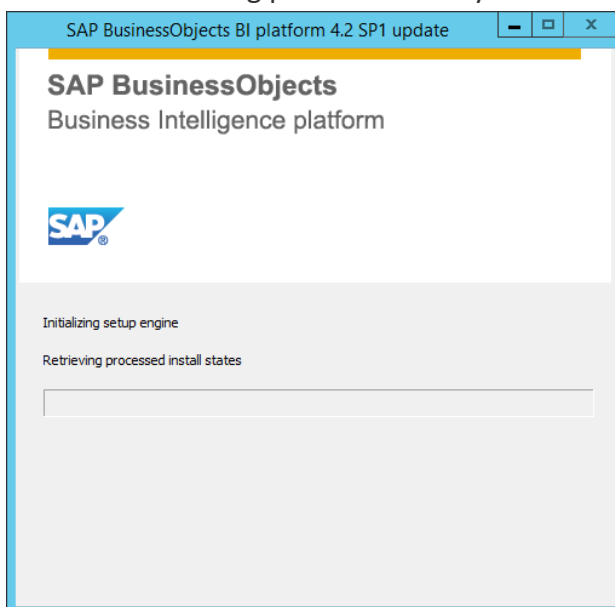


```

1  ### Remote CMS Administrator Name
2  remotecmsadminname=Administrator
3
4  ### Remote CMS Administrator Password
5  remotecmsadminpassword=Patternbook1
6
7  ### Remote CMS Name
8  remotecmsname=WINPB4-02
9
10 ### Remote CMS Port
11 remotecmsport=6400
12
13 ### Available features
14 ### -----
15 ### root
16 features=
  
```

Note: Storage of password in any of the text file is a breach of security, hence the user needs to hardcode the password during **resume_after_cache** and can delete the response file after the installation is completed.

- During **resume_after_cache**, the installation startup screen would take some time to launch. This is a known behavior, as the setup checks for all the relevant deployment units of the existing patches in the system. The issue has been addressed in 4.2 SP2.



- While monitoring the **setup.exe** in the task manager, if the **setup.exe** crashes, the subsequent log files are created in the **%tmp%** folder in the form of **Errors and Warnings**. Users can check this file to take a note of **Errors and Warning** and rectify the same.

Task Manager

File Options View

Processes Performance Users Details Services

Name	PID	Status	User name	CPU	Memory (p...	Description
CMS.exe	4036	Running	pbadmin	00	190,092 K	SAP BusinessObjects...
sia.exe	1140	Running	pbadmin	00	159,444 K	Commons Daemon ...
explorer.exe	5776	Running	Administra...	00	57,192 K	Windows Explorer
ServerManager.exe	5784	Running	Administra...	00	50,620 K	Server Manager
mcshield.exe	1656	Running	SYSTEM	00	49,664 K	McAfee On-Access ...
svchost.exe	2352	Running	NETWORK...	00	38,224 K	Host Process for Wi...
setupengine.exe	6808	Running	Administra...	01	25,732 K	SetupEngine.exe
svchost.exe	932	Running	SYSTEM	00	18,384 K	Host Process for Wi...
dwm.exe	476	Running	DWM-2	00	13,884 K	Desktop Window M...
dwm.exe	888	Running	DWM-1	00	13,500 K	Desktop Window M...
svchost.exe	896	Running	LOCAL SE...	00	9,540 K	Host Process for Wi...
svchost.exe	1556	Running	SYSTEM	00	8,240 K	Host Process for Wi...
Taskmgr.exe	7664	Running	Administra...	00	7,920 K	Task Manager
LogonUI.exe	876	Running	SYSTEM	00	7,892 K	Windows Logon Use...
mmc.exe	7120	Running	Administra...	00	7,244 K	Microsoft Managem...
svchost.exe	216	Running	NETWORK...	00	6,816 K	Host Process for Wi...
lsass.exe	680	Running	SYSTEM	00	6,676 K	Local Security Autho...
svchost.exe	980	Running	LOCAL SE...	00	6,380 K	Host Process for Wi...
SvcMgr.exe	7096	Running	Administra...	00	6,048 K	SAP BusinessObjects...
filesrvr.exe	3572	Running	pbadmin	00	5,824 K	File Repository Server
filesrvr.exe	864	Running	pbadmin	00	5,452 K	File Repository Server
vmtoolsd.exe	1584	Running	SYSTEM	00	4,196 K	VMware Tools Core ...
svchost.exe	660	Running	LOCAL SE...	00	4,168 K	Host Process for Wi...

Fewer details End task

2

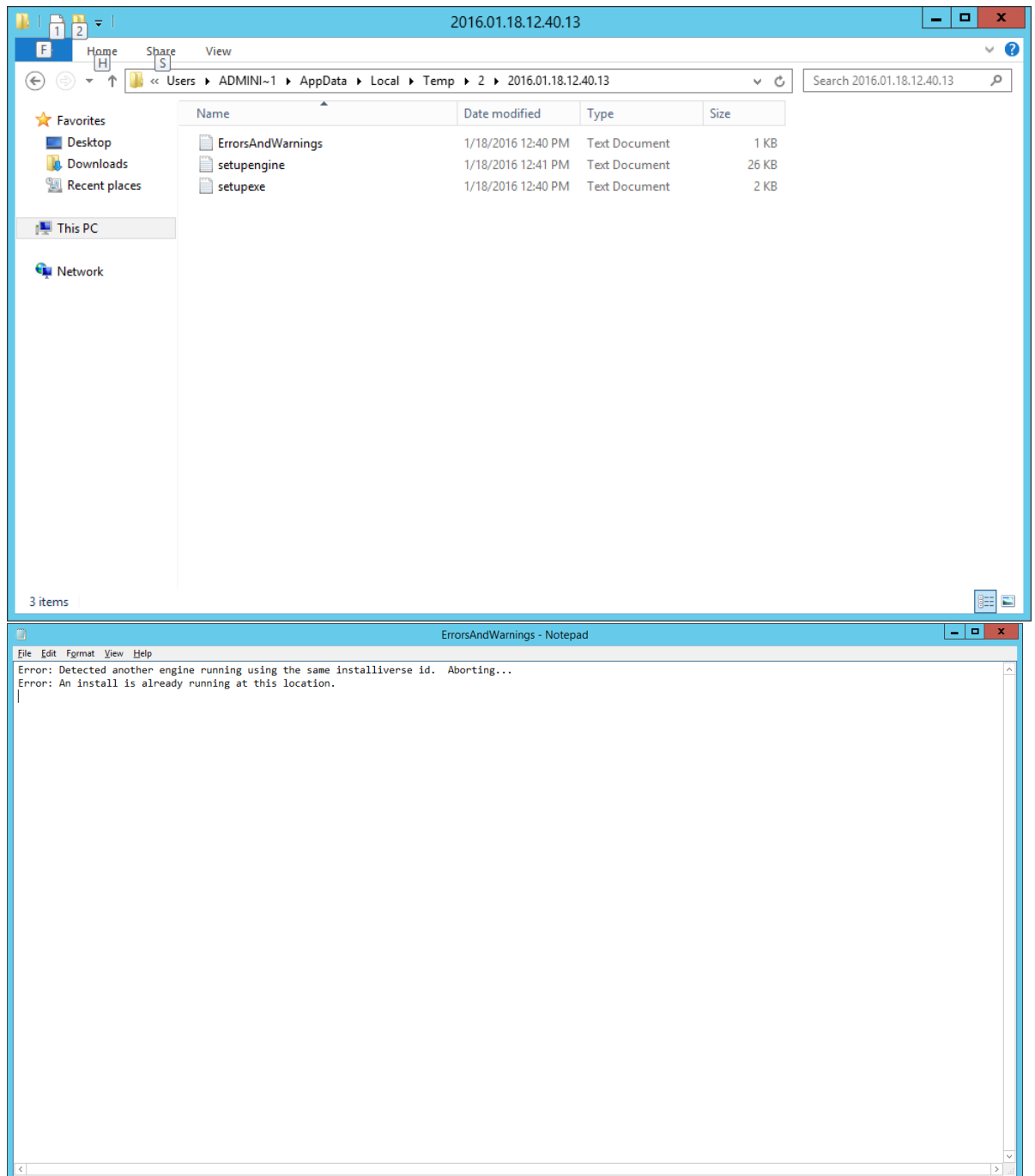
File Home Share View

This PC > Local Disk (C:) > Users > ADMINI~1 > AppData > Local > Temp > 2

Search 2

Name	Date modified	Type	Size
2016.01.18.13.35.18	1/18/2016 1:35 PM	File folder	
hsperfdata_administrator	1/18/2016 12:23 PM	File folder	
McAfeeLogs	1/18/2016 12:07 PM	File folder	
sap_setup	1/18/2016 12:11 PM	File folder	
ToastImage	1/18/2016 12:07 PM	PNG image	33 KB

5 items



- Close the **%tmp%** window if there are no **Errors and Warnings** inside the folder. The user needs to wait until the launch of the UI to confirm that **resume_after_cache** process has started.
- Do not re-run the **resume_after_cache** command from the command prompt till **setup.exe** is visible in the **Details** tab of the **Task Manager**.
- Do not restart the SIAs till the **resume_after_cache** is completed for all the servers in the landscape.

Resume after cache – in parallel



Resume after cache for BOE in CMS servers in Parallel

Stop the SIA 2 for CMS server 2 while running the **resume_after_cache** for Server 1, so that there is no inconsistency. For Server 1 make sure only CMS and input and output file repository server is running in node 1 and no other servers are running.

Once the **resume_after_cache** is completed do not restart any of the SIA or any of the hosts till **resume_after_cache** is completed in all the servers (CMS+APP+WEB+explorer).

With BI 4.2 SP 2 onwards, it is recommended to complete resume after cache on the primary CMS machine first and then reboot the primary CMS and add the 4.2 license key through the command line or through CMC through deployed wacs. Post addition of the 4.2 SP 2 license, resume after cache can be continued synchronously in parallel for the machines in the intelligence tier and thereafter for the Processing Tier and then the Web tier.

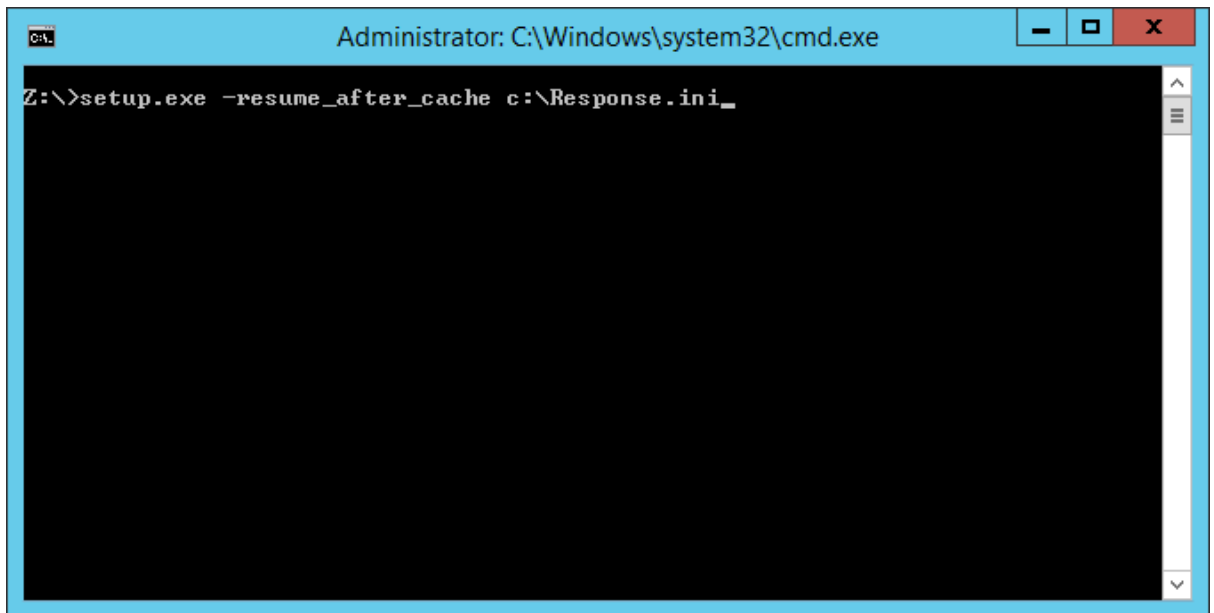
Ensure Windows update service is disabled in the host, so that the machines do not get restarted post completion of the setup.

Caching can be done synchronously in all the hosts. However, the **resume_after_cache** can only be done concurrently in the same tier at a time. For example, **resume_after_cache** can be executed synchronously on Intelligence tier machines. Once the Intelligence tier machine has completed the installation, then **resume_after_cache** can run concurrently in Application tier. After the completion of the Application tier installation, then it can be executed synchronously on Web-tier.

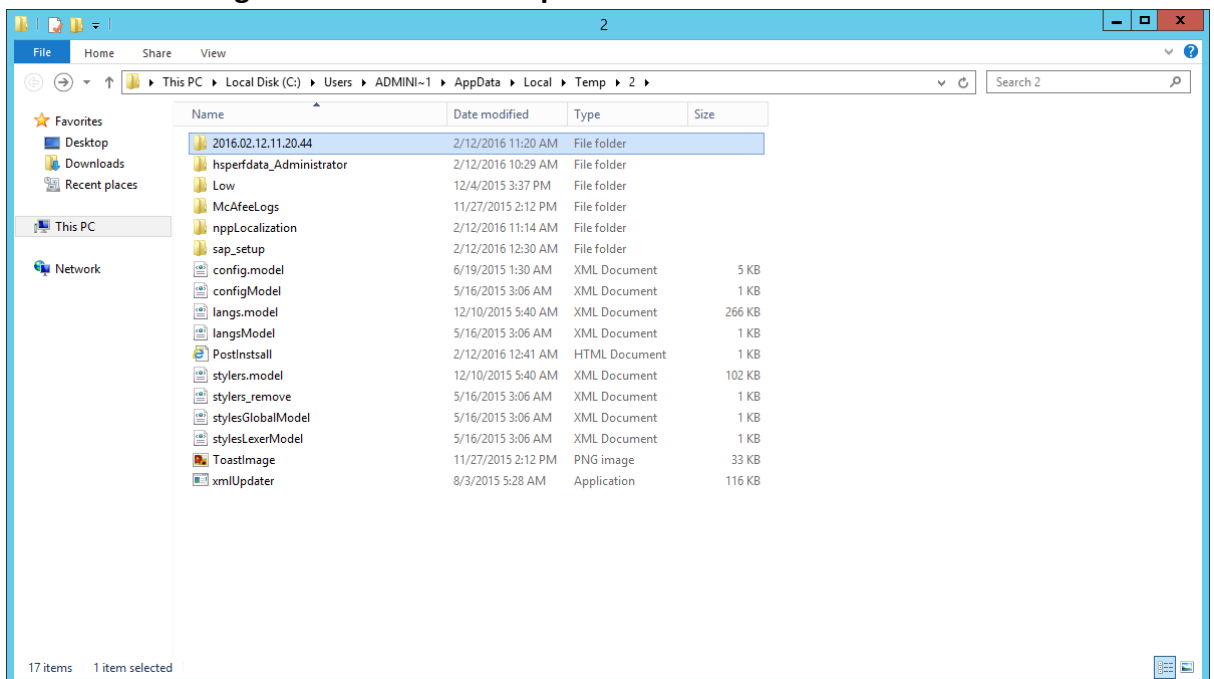
Note: It is advised not to restart the SIA or the host machine at any point during the installation. Only after the completion of installation in all the tiers, then SIAs must be restarted. If you are updating to 4.2 SP 2 and above please follow the text highlighted above.

1. In command prompt, you should navigate to the drive that has been mapped for BOE install and execute the command as shown in the screenshot with the command line parameter **resume_after_cache**.

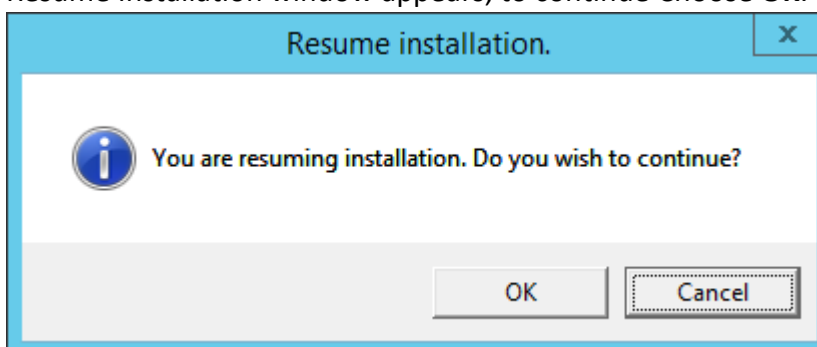
Note: A response file with the name **Response.ini** has already been created in C:\ of CMS 1 and CMS 2 host machines prior to execution of the command.



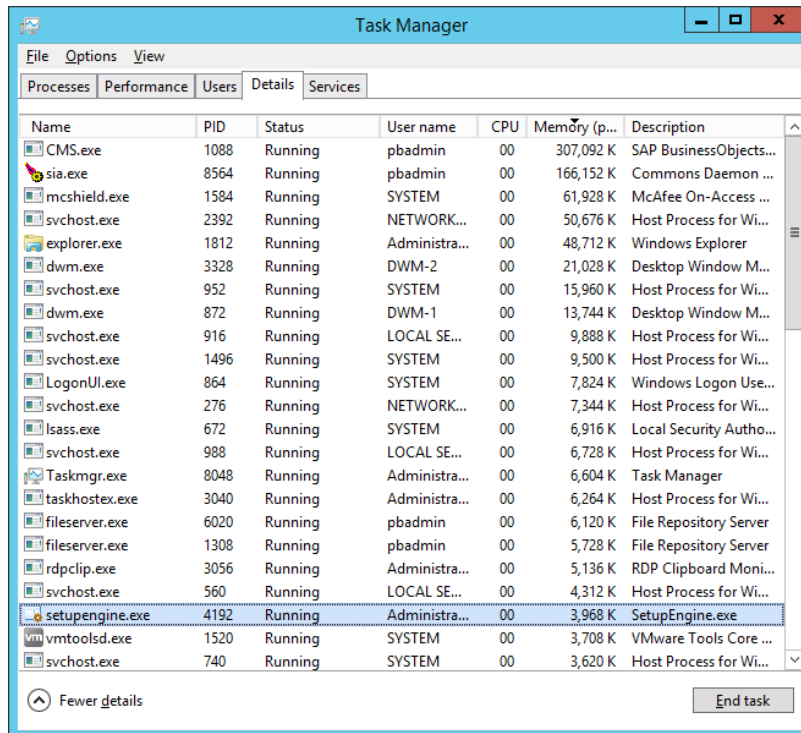
2. Check **%temp%** folder for **Errors and Warnings** log
3. Check **Task Manager** to monitor the **setup.exe**.



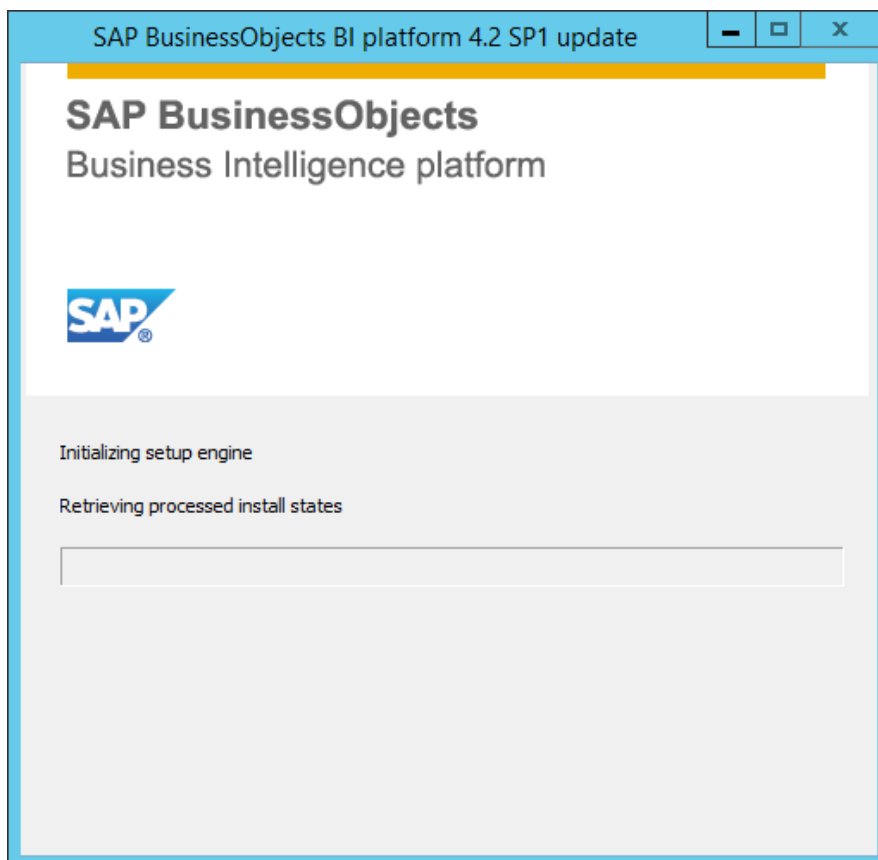
4. Resume Installation window appears, to continue Choose **OK**.



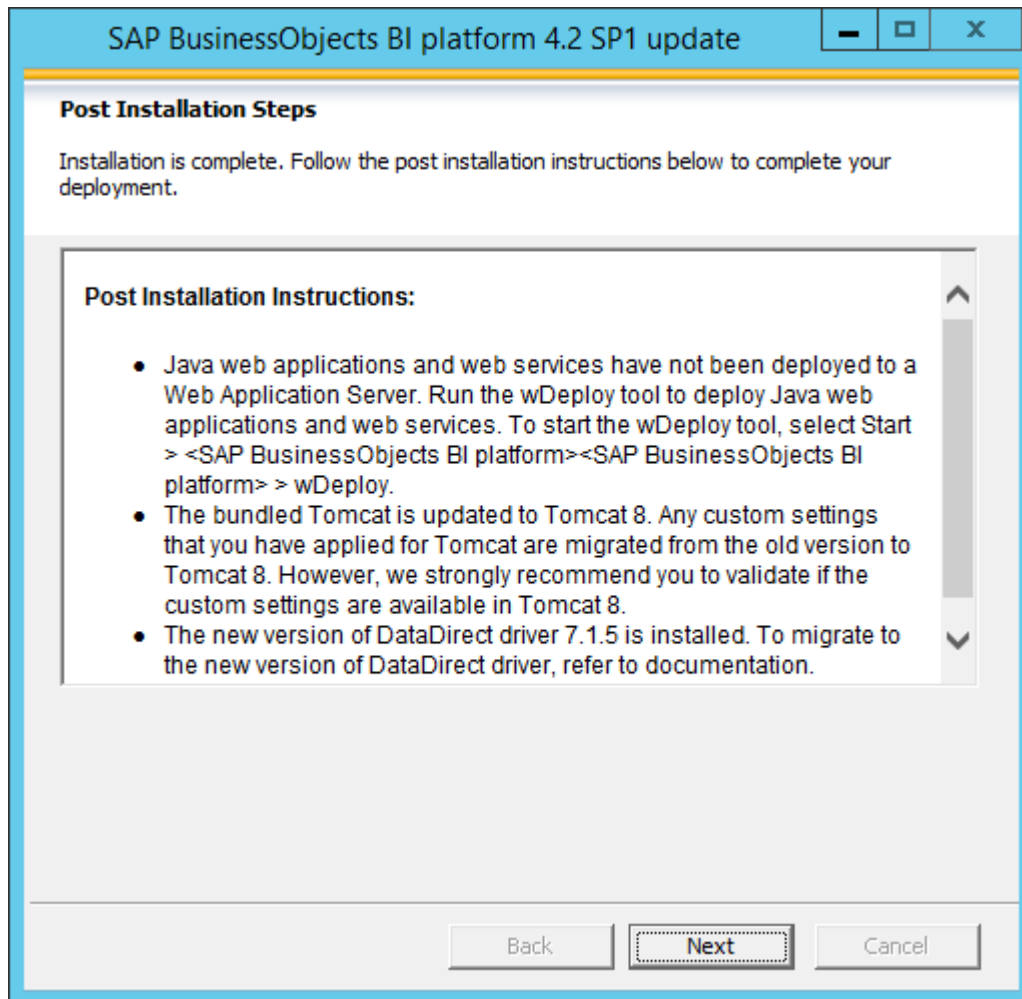
5. Track the **Task Manager** for **setup.exe** until the UI has launched for installation.



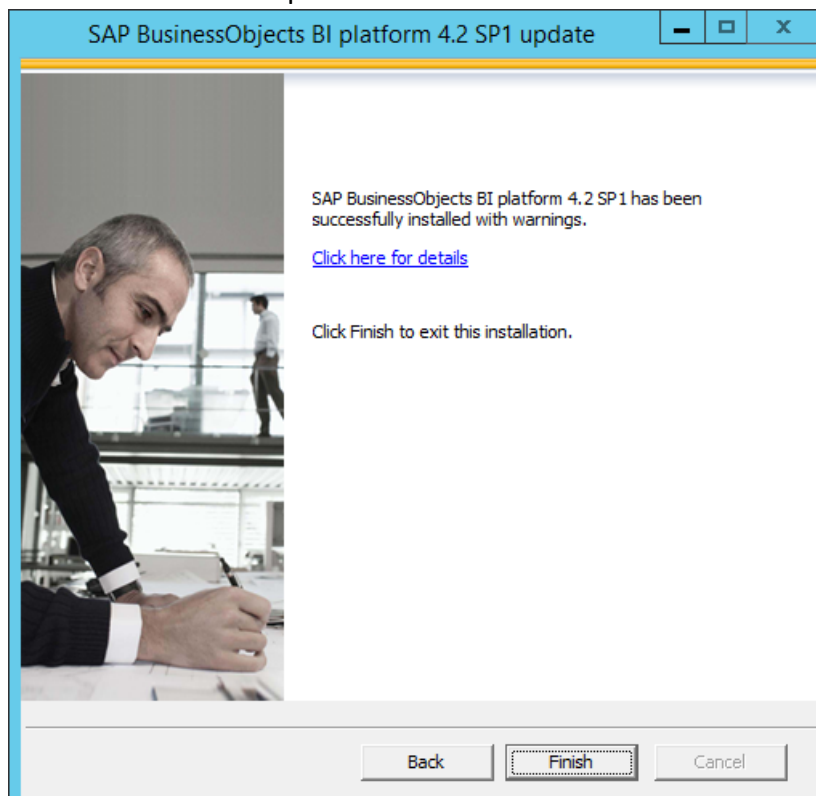
On successful execution the UI is launched.



6. **Post Installation** window appears, to continue choose **Next**.



7. Choose **Finish** to complete the installation.





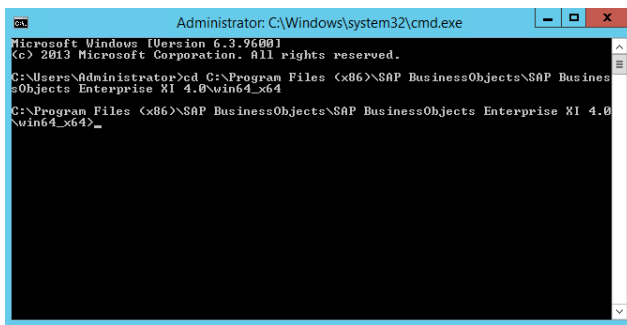
Wait till the **resume_after_cache** is completed for both the CMS servers in parallel. Once that is completed, then the user can process with the next update workflow. **This is applicable for BI 4.2 Base only**

With BI 4.2 SP 2 onwards, it is recommended to complete resume after cache on the primary CMS machine first and then reboot the primary CMS and add the 4.2 license key through the command line or through CMC which have been deployed through WACS. Post addition of the 4.2 SP 2 license, resume after cache can be continued synchronously in parallel for the machines in the intelligence tier and thereafter for the Processing Tier and then the Web tier.

Please follow the below steps to add license key after the update of the first CMS through **resume_after_cache**.

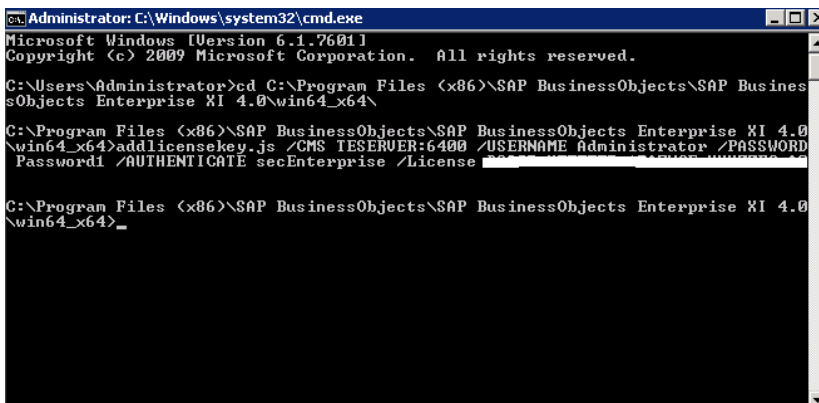
Step 1: Go to command prompt and navigate till

`<InstallDir>\SAP BusinessObjects Enterprise XI 4.0\win64_x64`



Step 2: Run command

`"addlicensekey.js /CMS <hostname:cmsport> /USERNAME Administrator /PASSWORD <administrator account password> /AUTHENTICATE secEnterprise /License <licensekey>"`



Adding through WACS

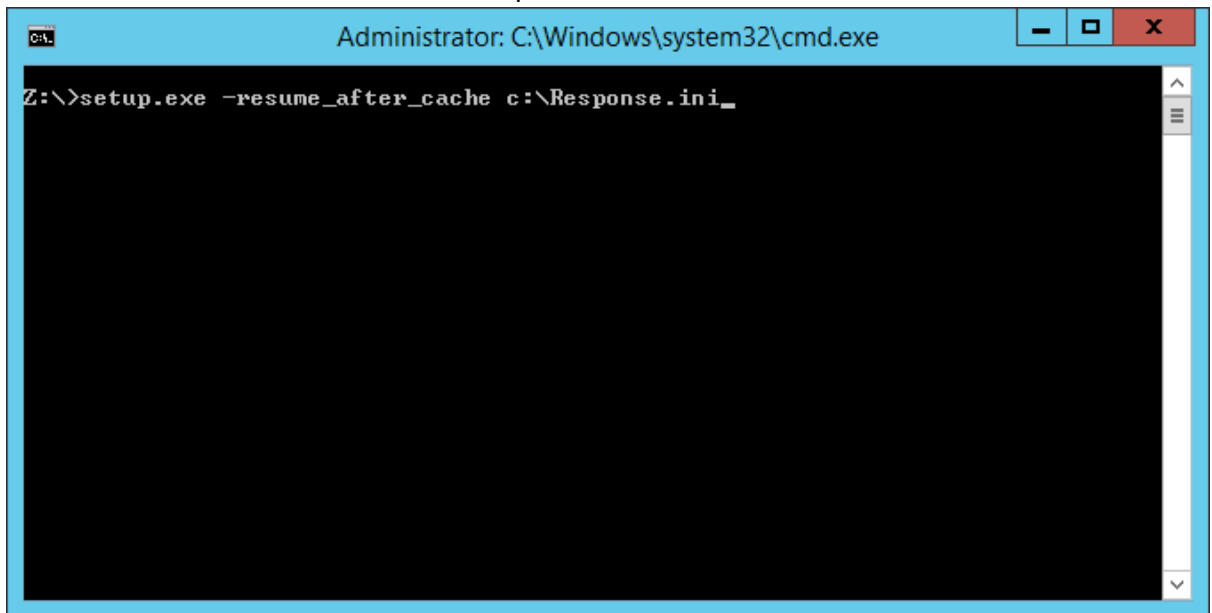
Step 1: Login through the WACS url

`http:// <hostname:wacsport>/BOE/CMC`

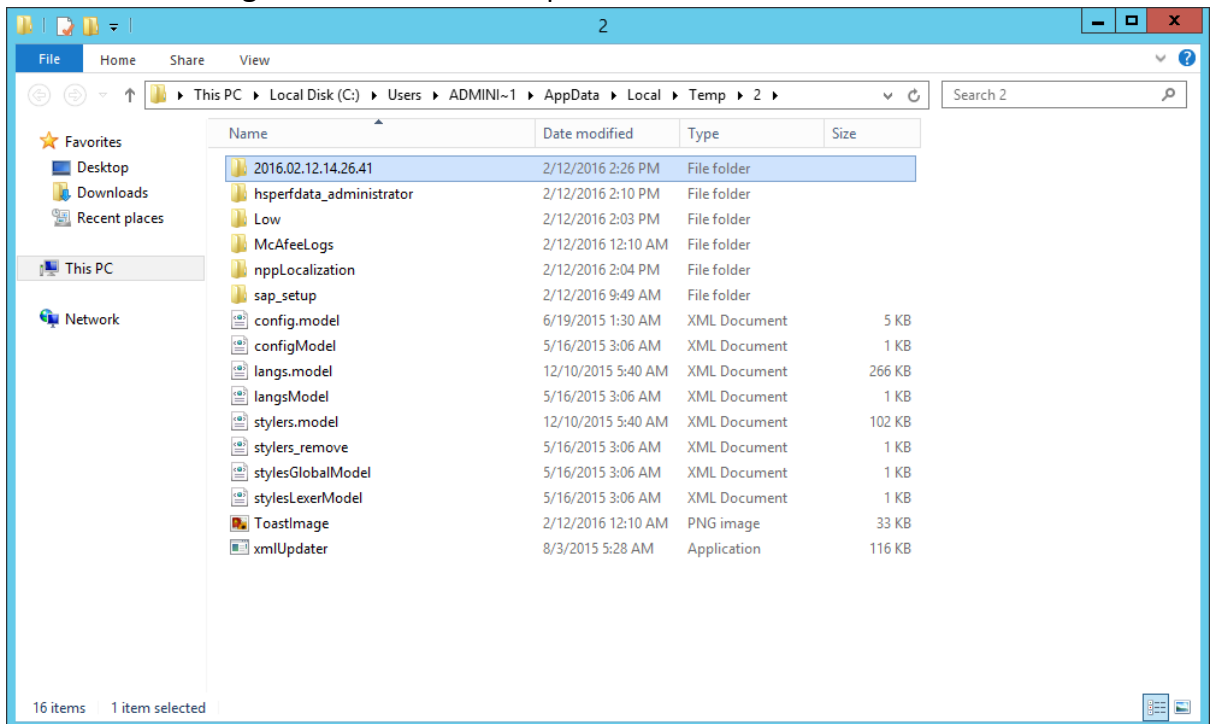
Step 2: Navigate to License key tab in cmc , remove the license key and add the new key immediately.

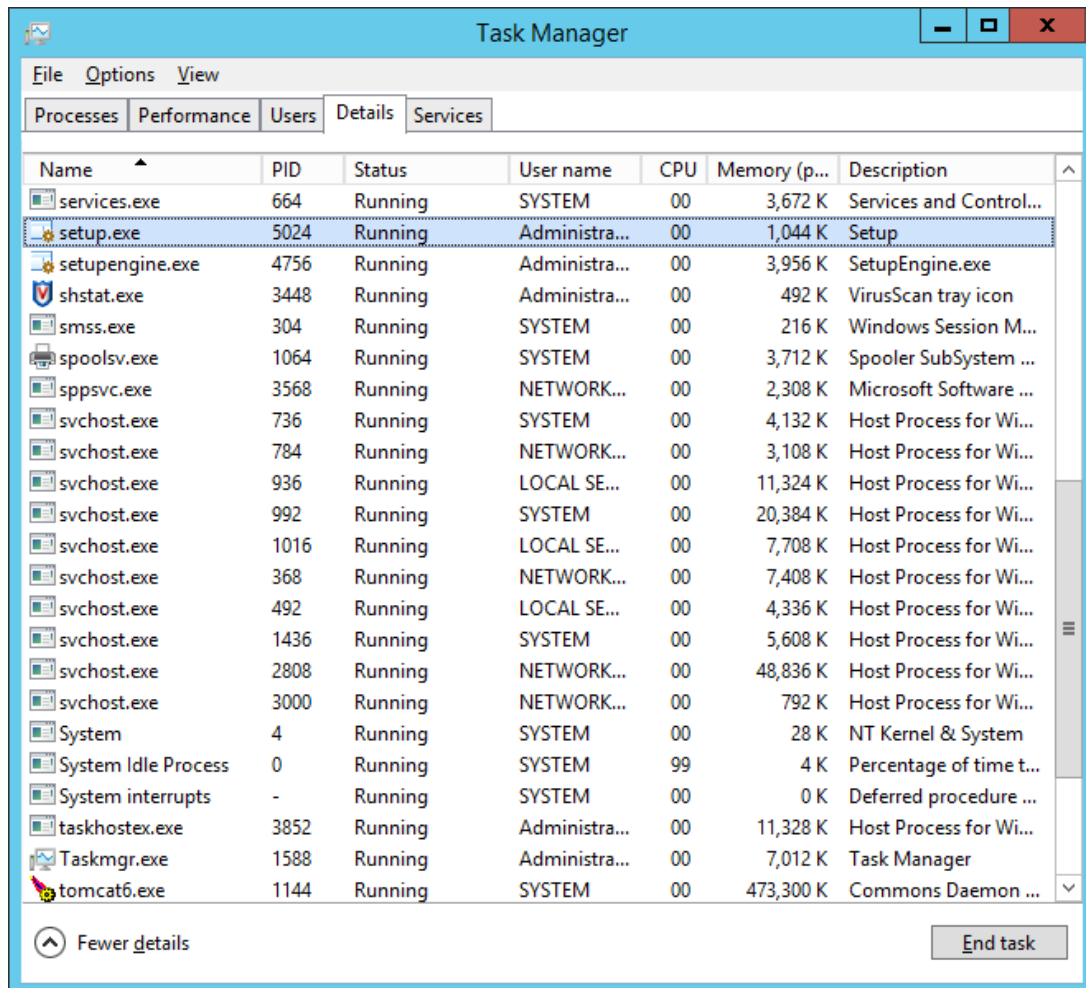
Resume after cache for BOE in Tomcat servers (Parallel)

1. Execute the command in command prompt as shown in the screenshot. Here, **Z:** is the mapped drive with the installer of the Explorer setup.
2. A response file with the name **ResponseE.ini** has already been created in **C:** of Tomcat 1 and Tomcat 2 host machines prior to execution of the command.

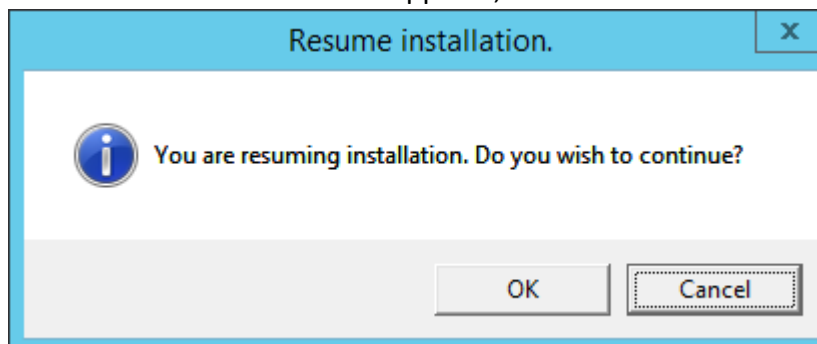


3. Check **%temp%** folder for Errors and Warnings log.
4. Check **Task Manager** to monitor the setup.exe.

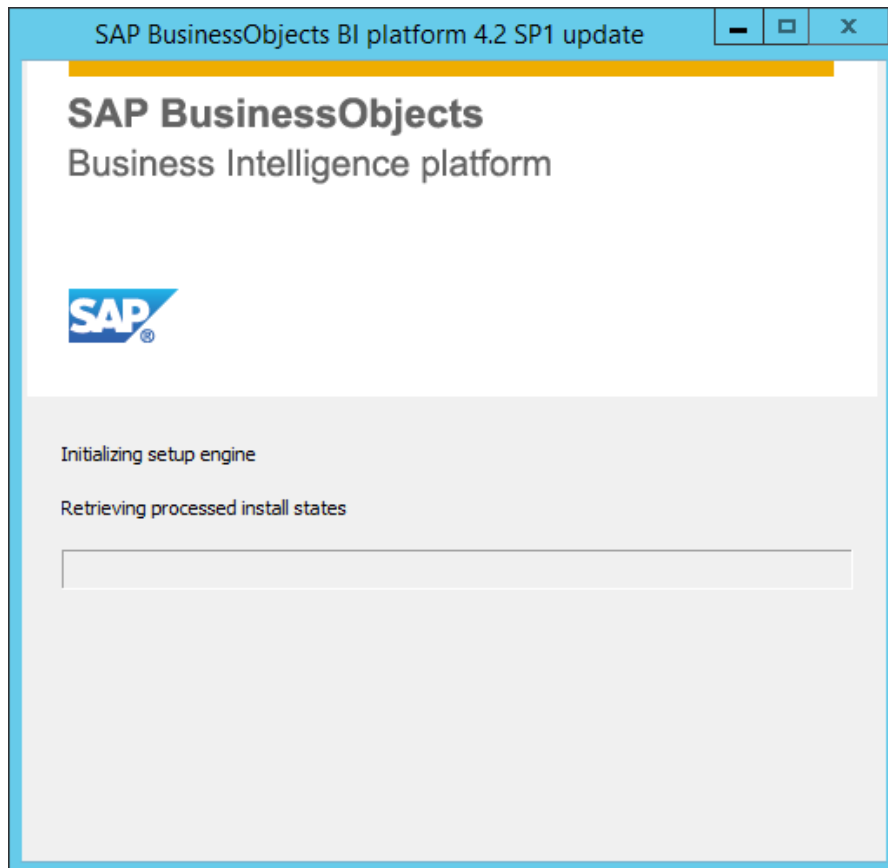




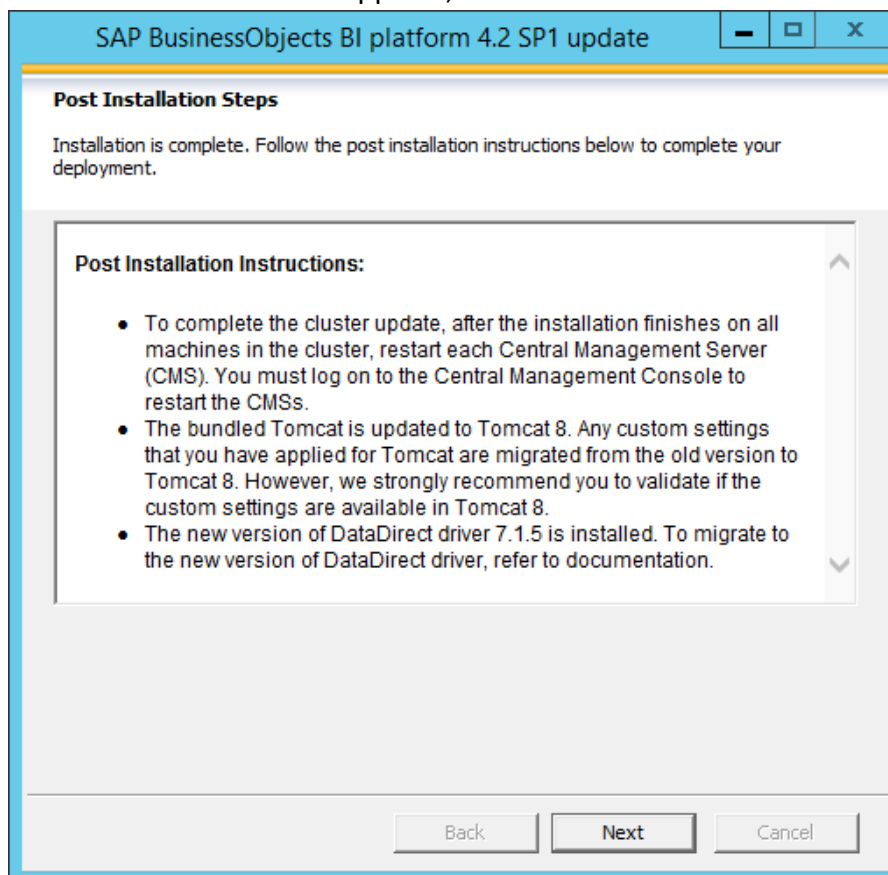
5. **Resume Installation** window appears, to continue choose **OK**.



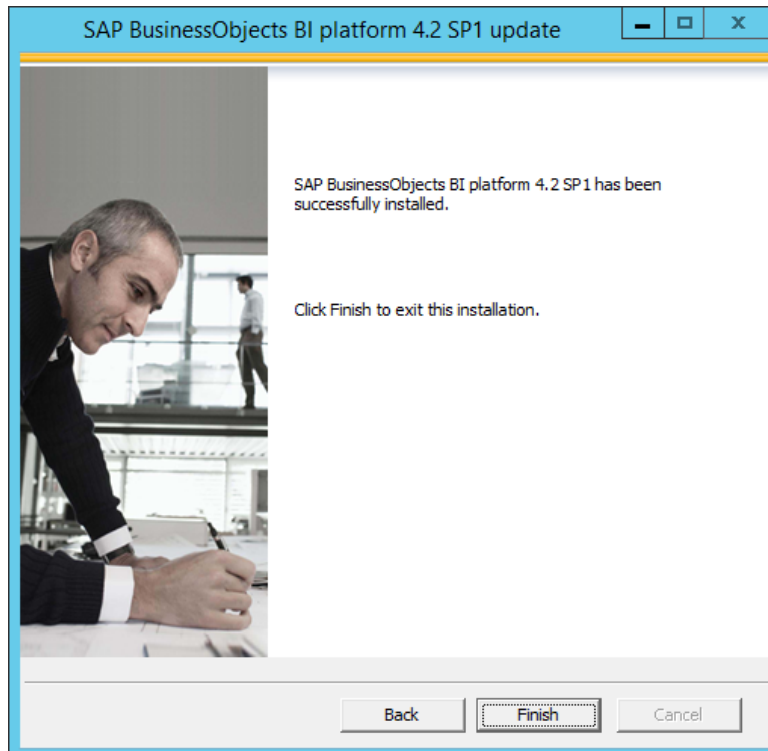
6. Track the **Task Manager** for **setup.exe** until the UI has launched for installation. On successful execution the UI gets launched indicating the progress bar.



7. **Post Installation** window appears, to continue choose **Next**.



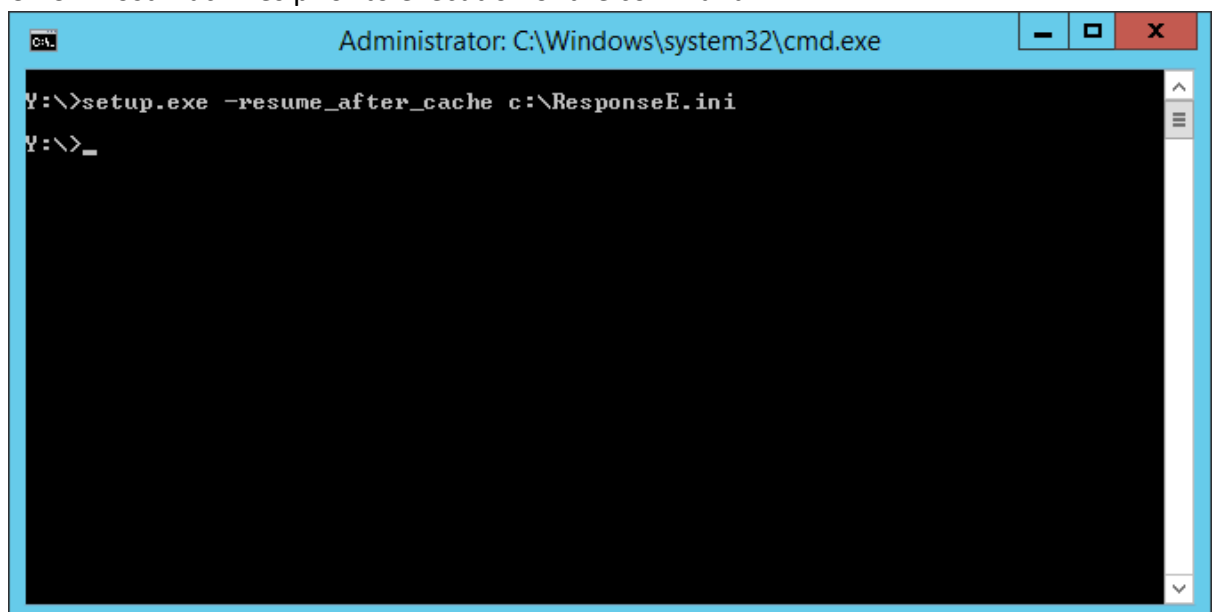
8. Choose **Finish** to complete installation.



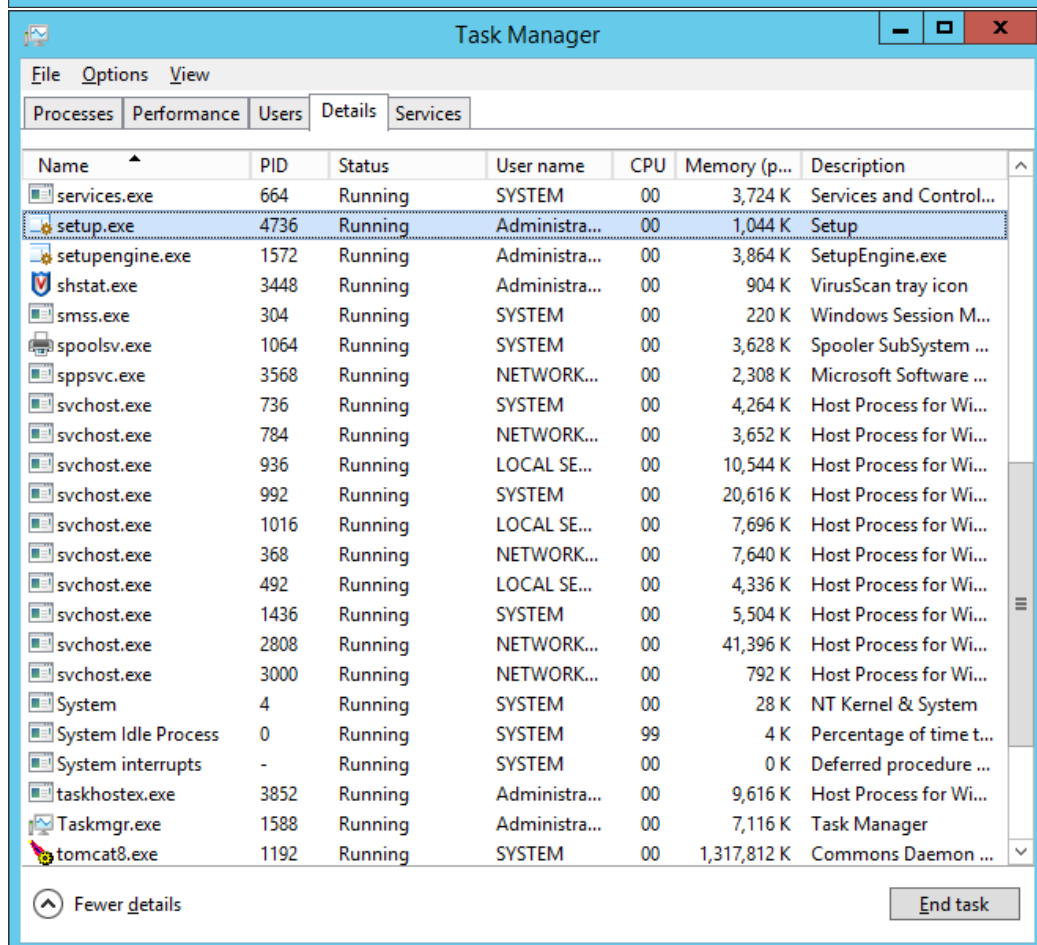
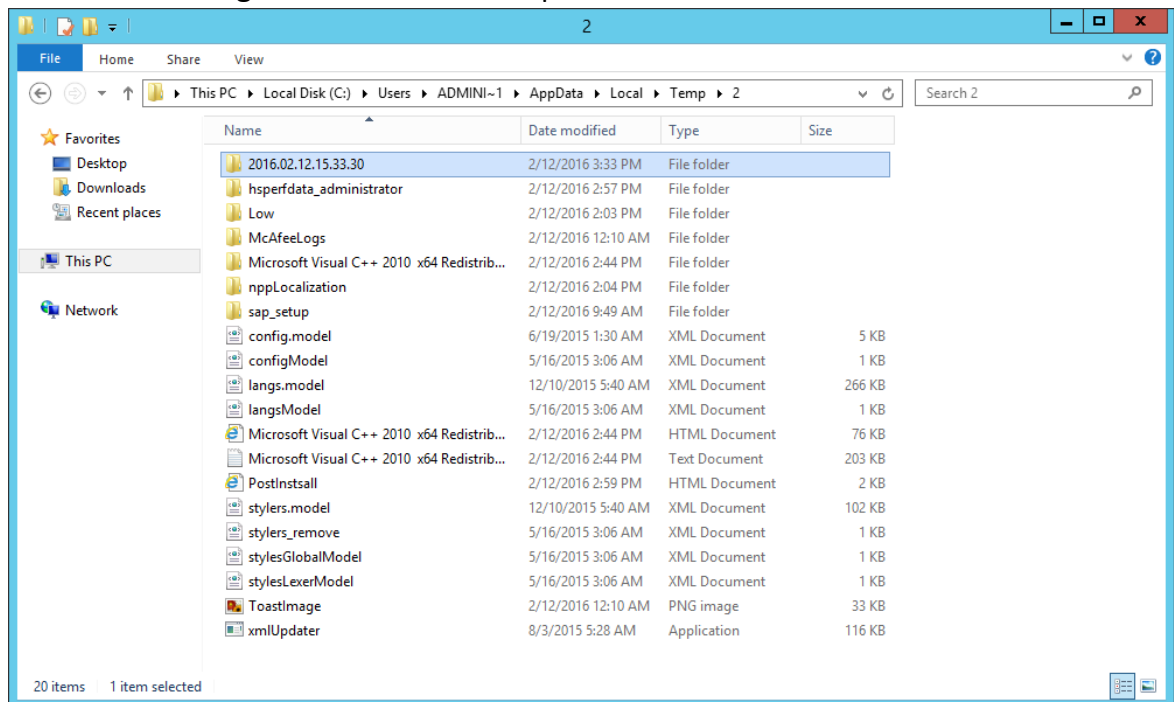
Wait until the **resume_after_cache** is completed for both the Tomcat servers in parallel. Once that is completed then you can proceed with the next update workflow.

Resume after cache for Explorer CMS ADD ON in CMS 1 and CMS 2 server (in Parallel)

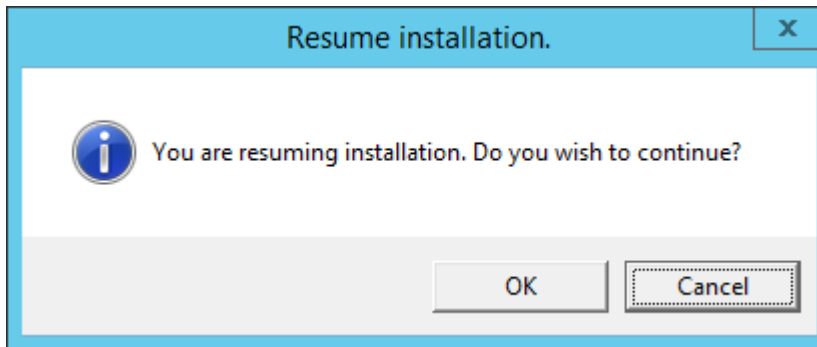
1. Execute the command in command prompt as shown in the screenshot. Here **Y:** is the mapped drive with the installer of the Explorer setup.
2. A response file with the name **ResponseE.ini** is already created in **C:** of CMS 1 and CMS 2 host machines prior to execution of the command.



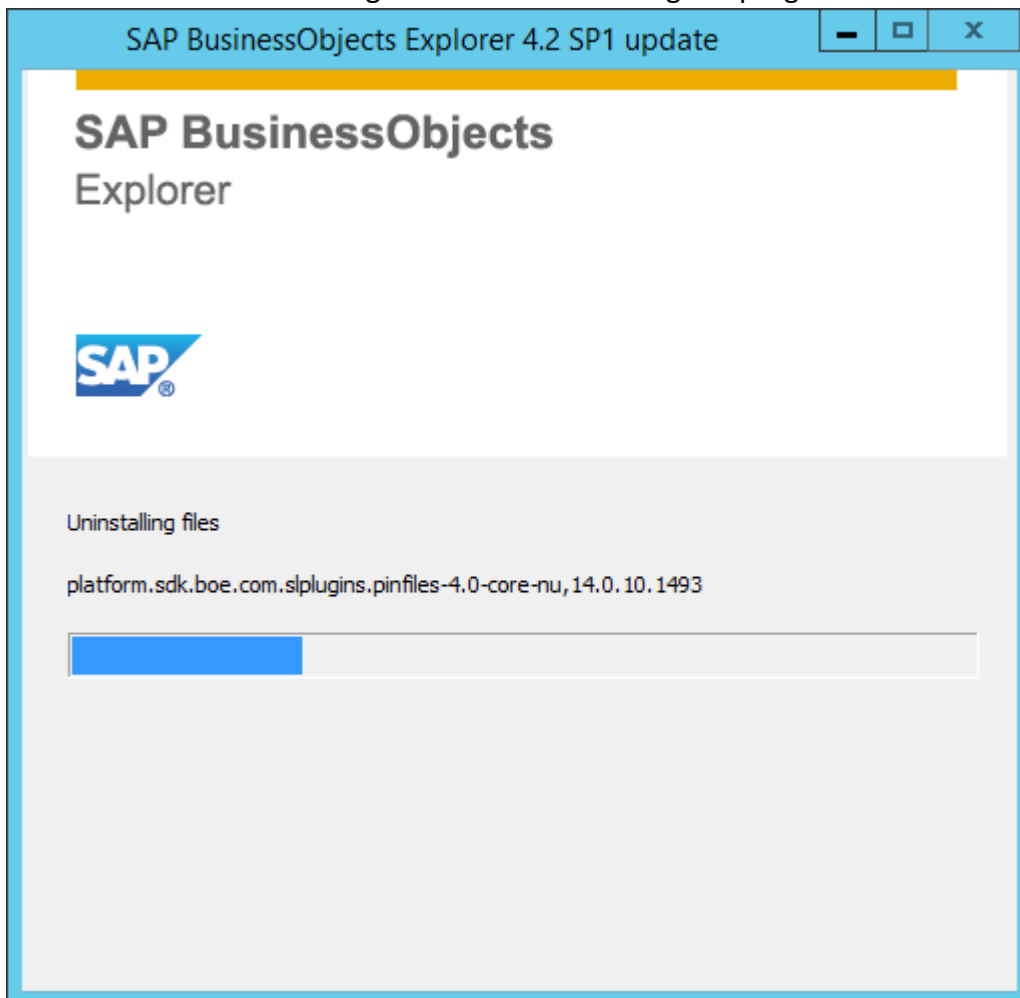
3. Check %temp% folder for **Errors and Warnings** log
4. Check **Task Manager** to monitor the setup.exe.



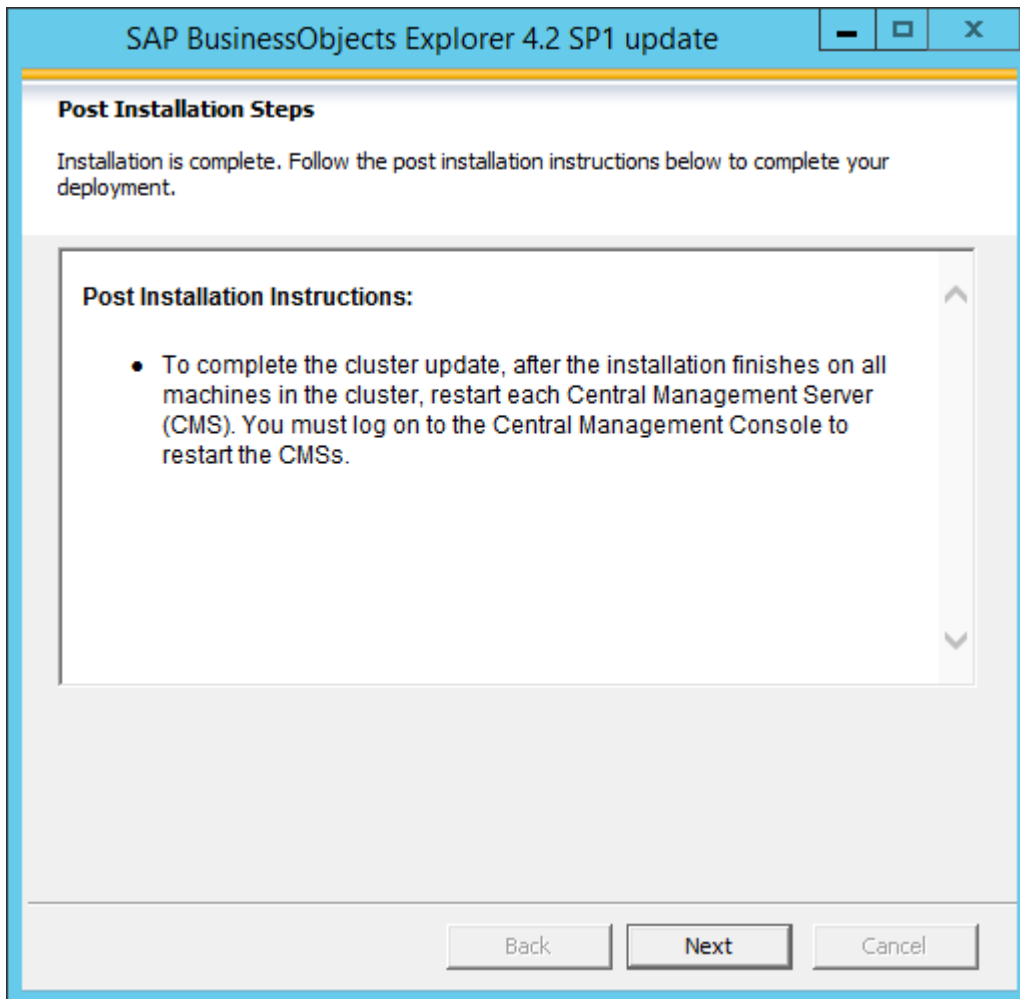
5. **Resume Installation** window appears, to continue choose OK.



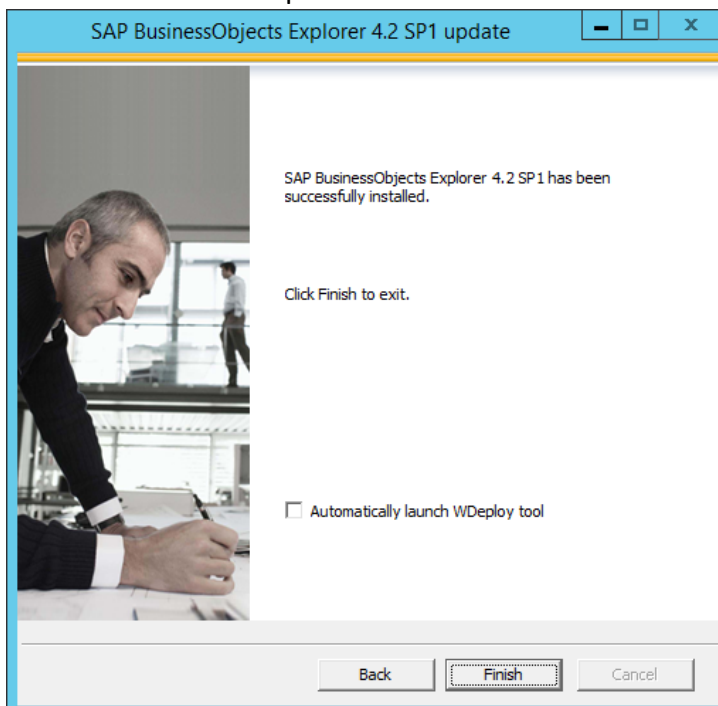
6. Track the **Task Manager** for **setup.exe** until the UI has launched for installation. On successful execution the UI gets launched indicating the progress bar.



7. **Post Installation** window appears, to continue choose **Next**.



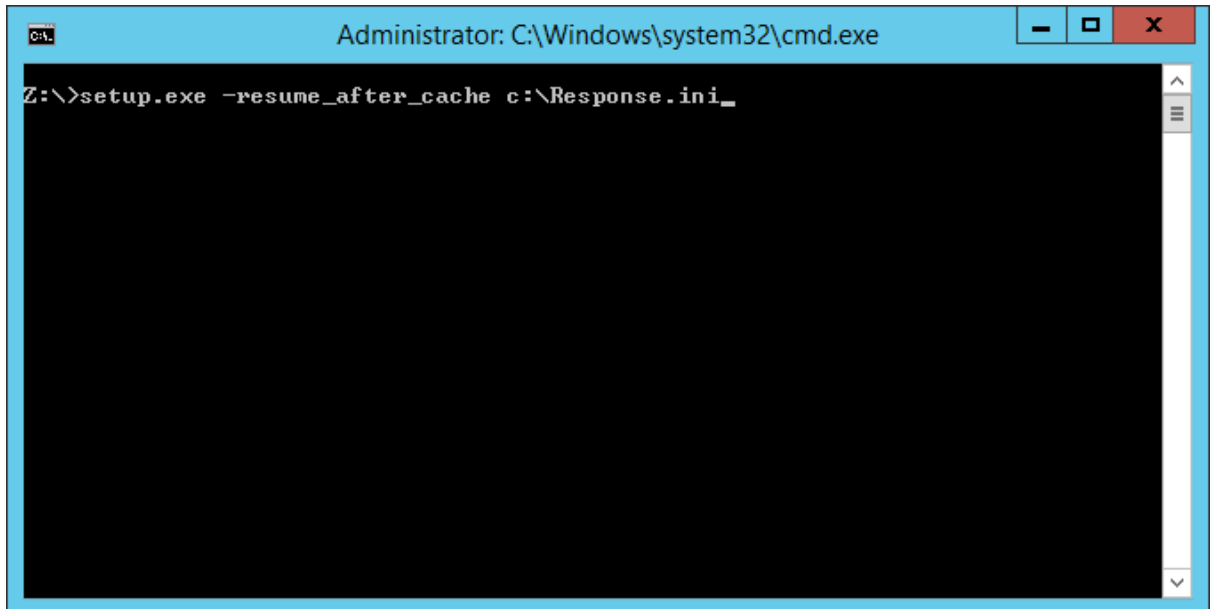
8. Choose **Finish** to complete installation.



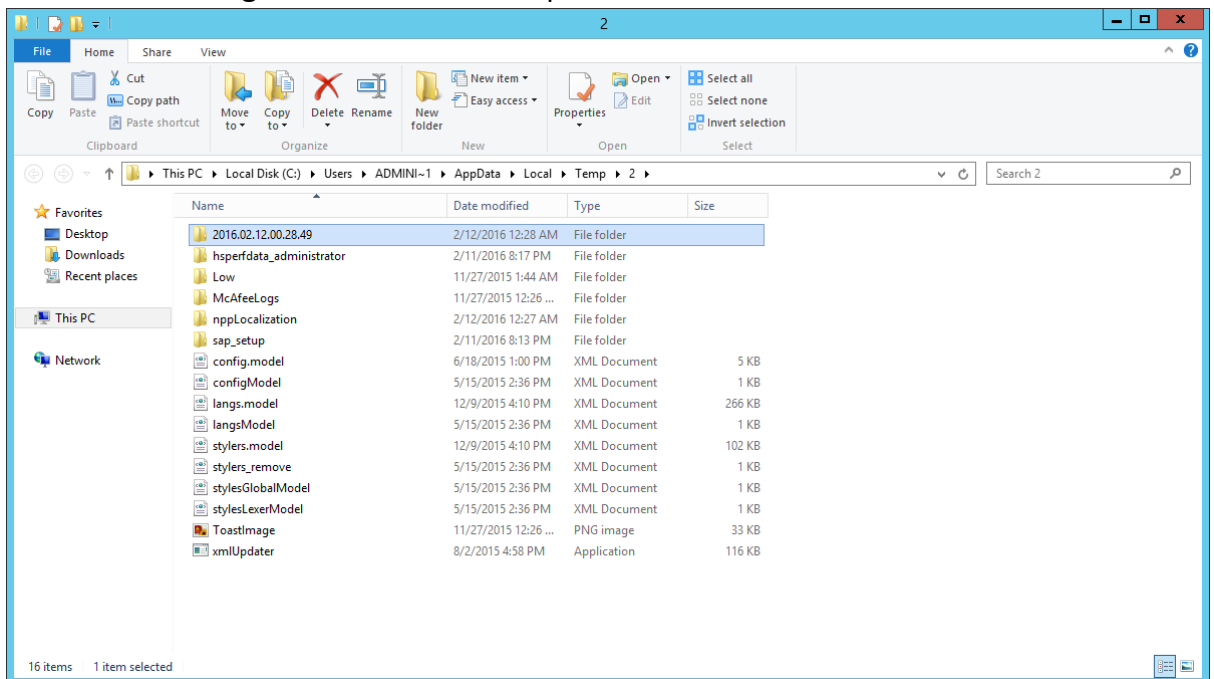
Wait until the **resume_after_cache** is completed for both the CMS servers in parallel. Once that is completed, then the user can move on to the next update workflow.

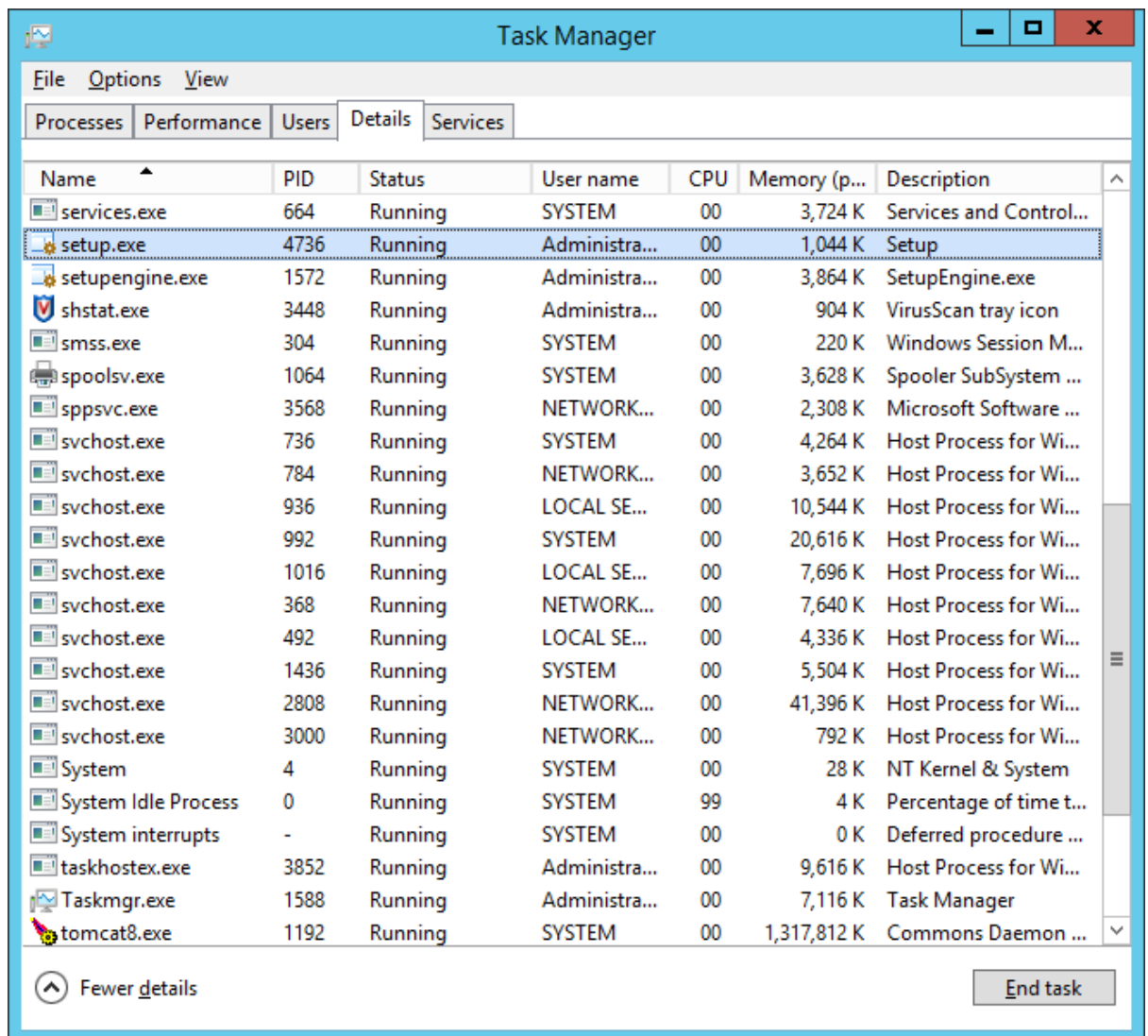
Resume after cache for Explorer in Explorer Server (in Parallel)

1. Execute the command in command prompt as shown in the screenshot. Here, **Z:** is the mapped drive with the installer of the Explorer setup.
2. A response file with the name **Response.ini** has already been created in **C:** of Explorer host machines prior to execution of the command.

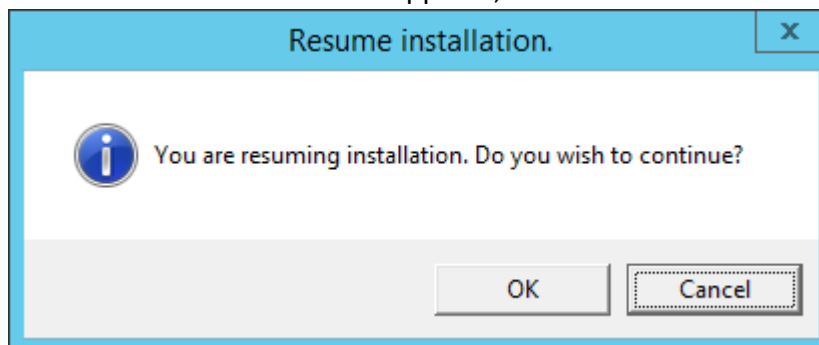


3. Check **%temp%** folder for **Errors and Warnings** log.
4. Check **Task Manager** to monitor the setup.exe.

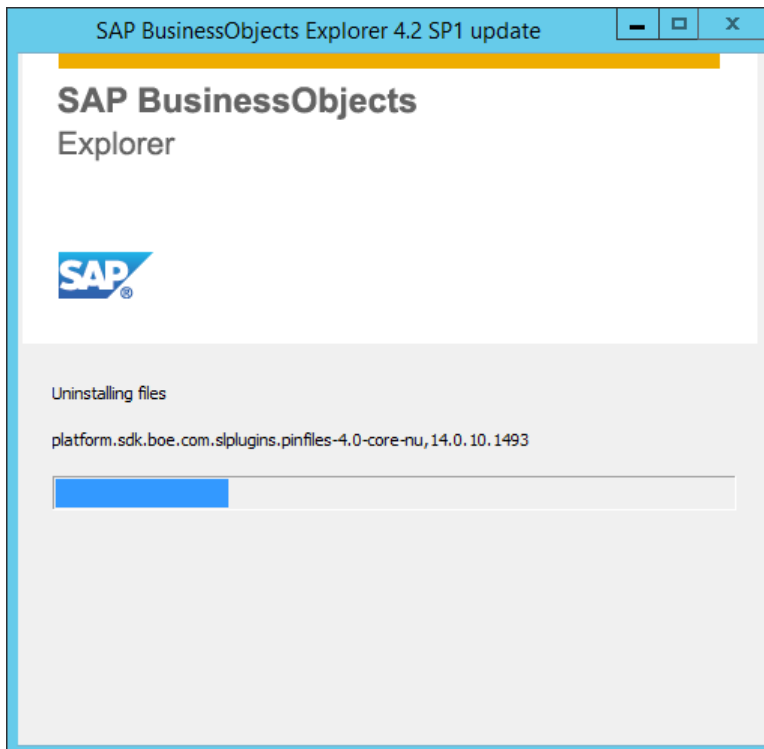




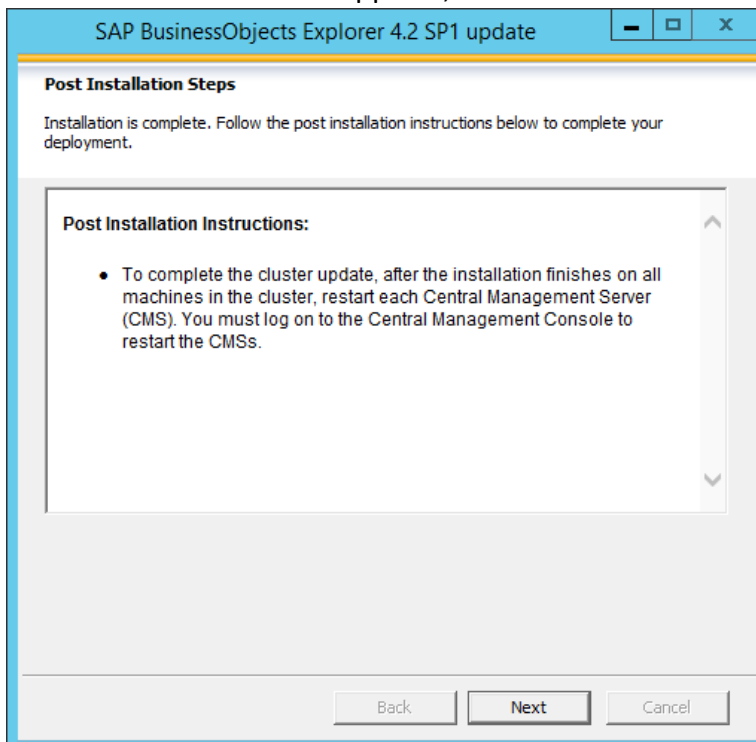
5. **Resume Installation** window appears, to continue choose **OK**.



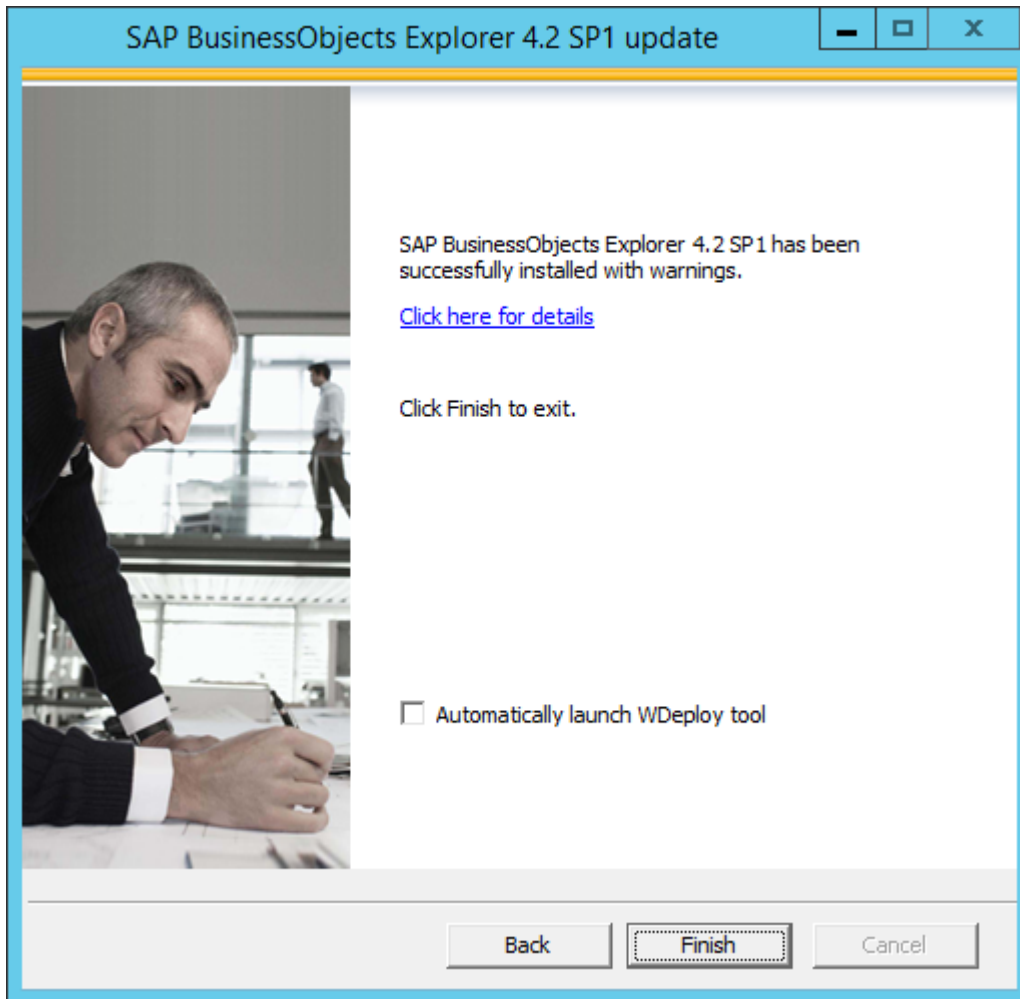
6. Track the **Task Manager** for setup.exe until the UI has launched for installation. On successful execution the UI gets launched indicating the progress bar.



7. **Post Installation** window appears, to continue choose **Next**.



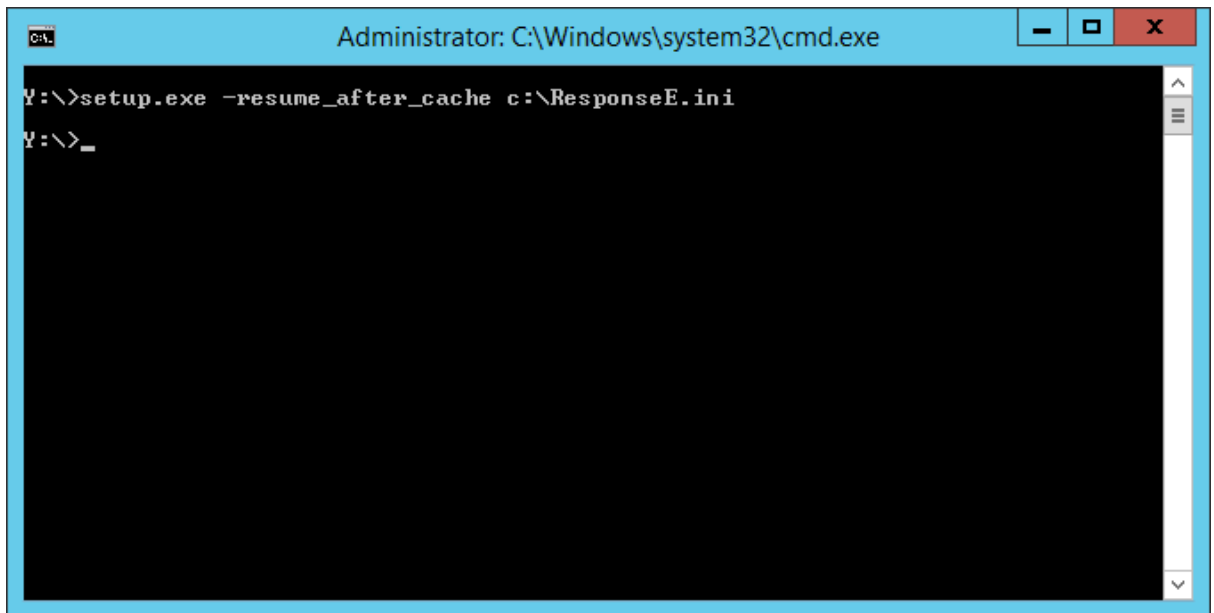
8. Choose **Finish** to complete installation.



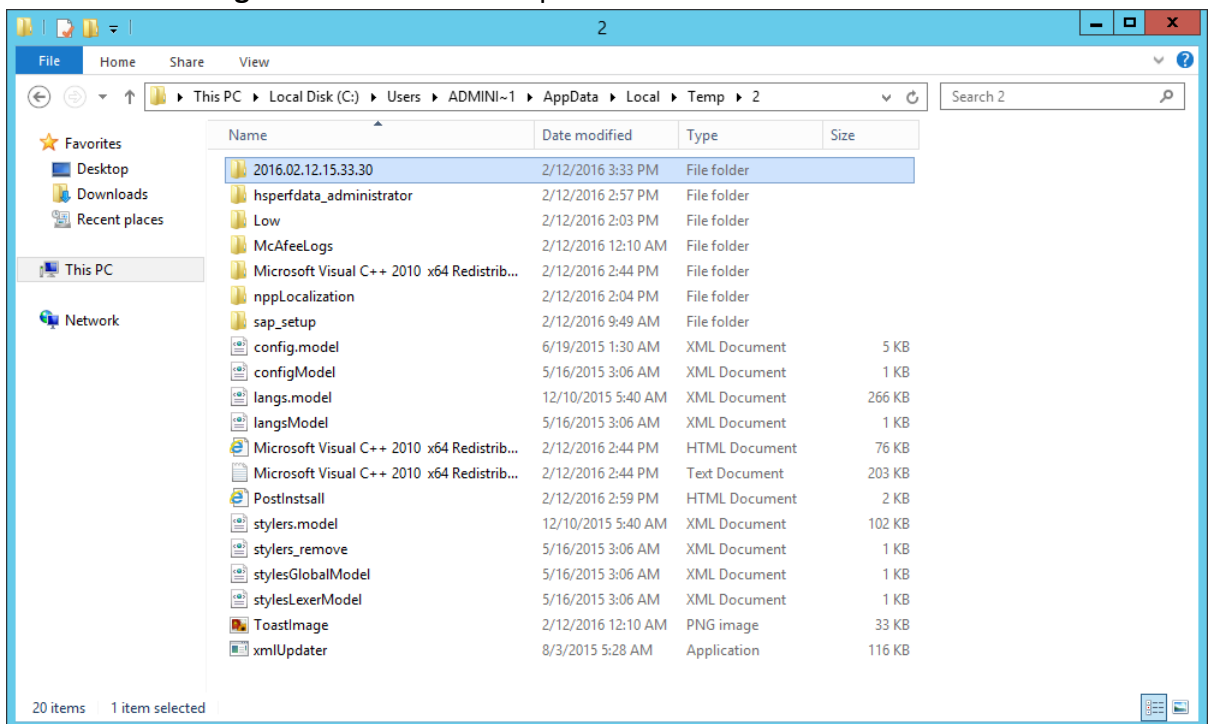
Wait until the **resume_after_cache** has completed for both the CMS servers in parallel. Once that is completed then the user can move on to the next update workflow.

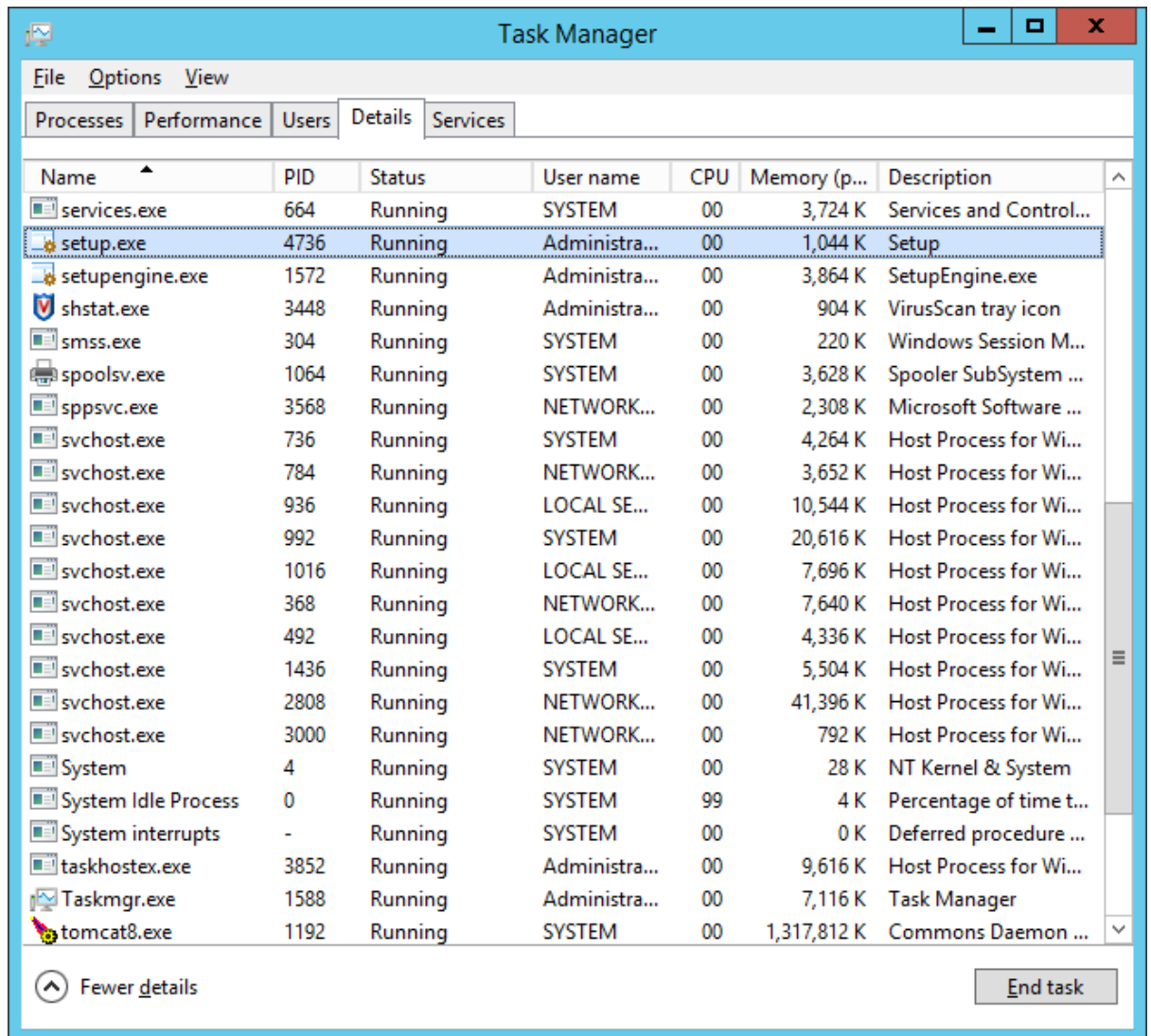
Resume after cache for Explorer in Tomcat serves (in Parallel)

1. Execute the command in command prompt as shown in the screenshot. Here, **Y:** is the mapped drive with the installer of the Explorer setup.
2. A response file with the name **ResponseE.ini** has already been created in **C:** of Tomcat 1 and Tomcat 2 host machines prior to execution of the command.

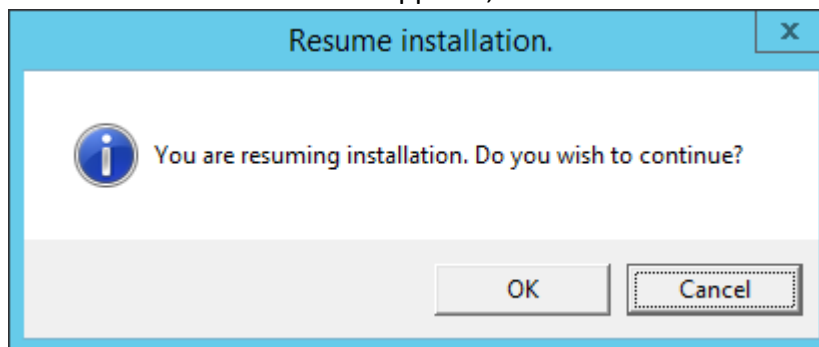


3. Check **%temp%** folder for **Errors and Warnings** log.
4. Check **Task Manager** to monitor the setup.exe.

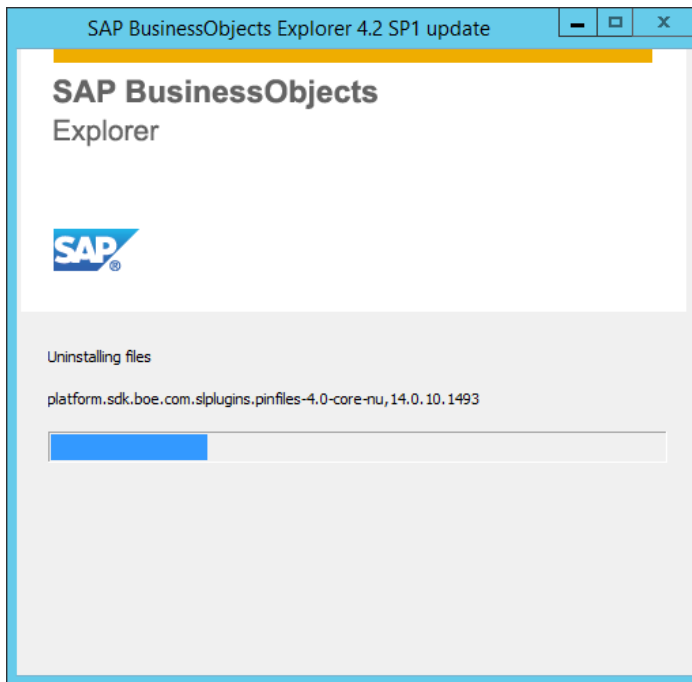




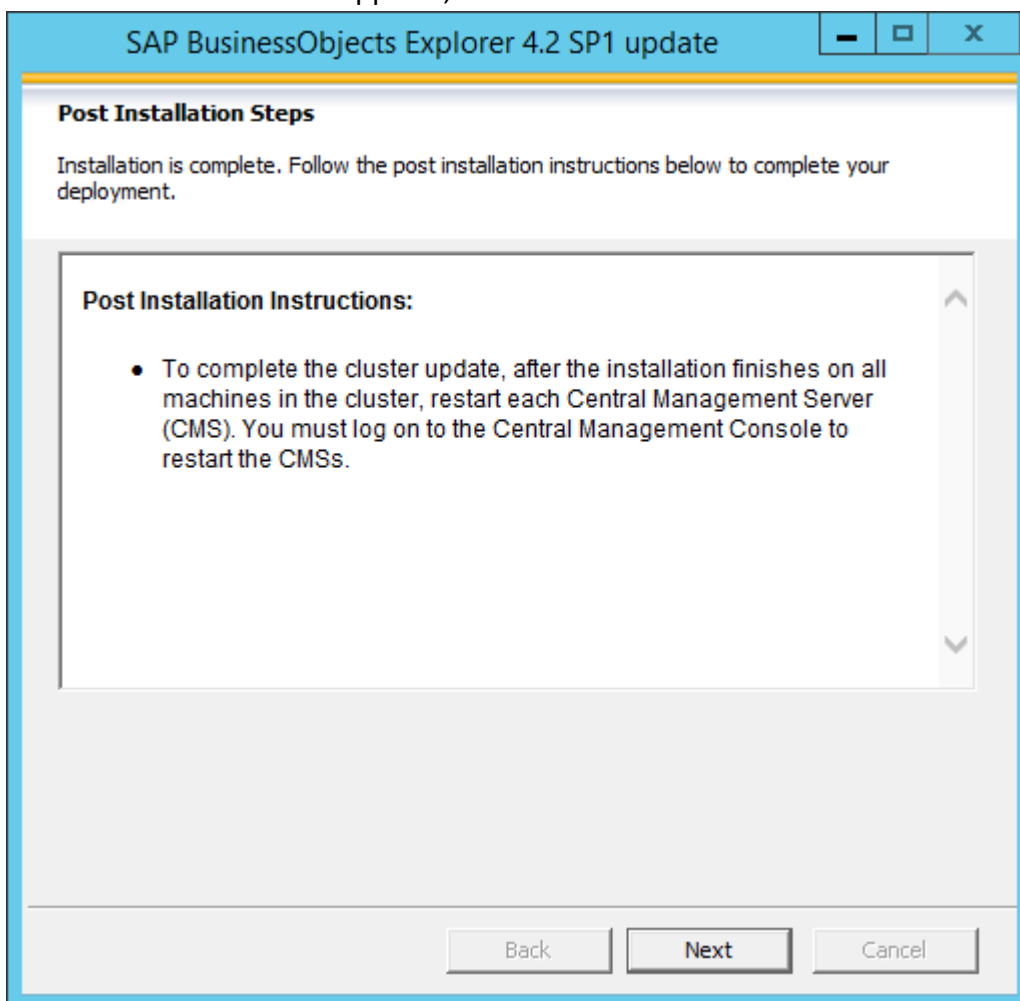
- Resume Installation window appears, to continue choose **OK**.



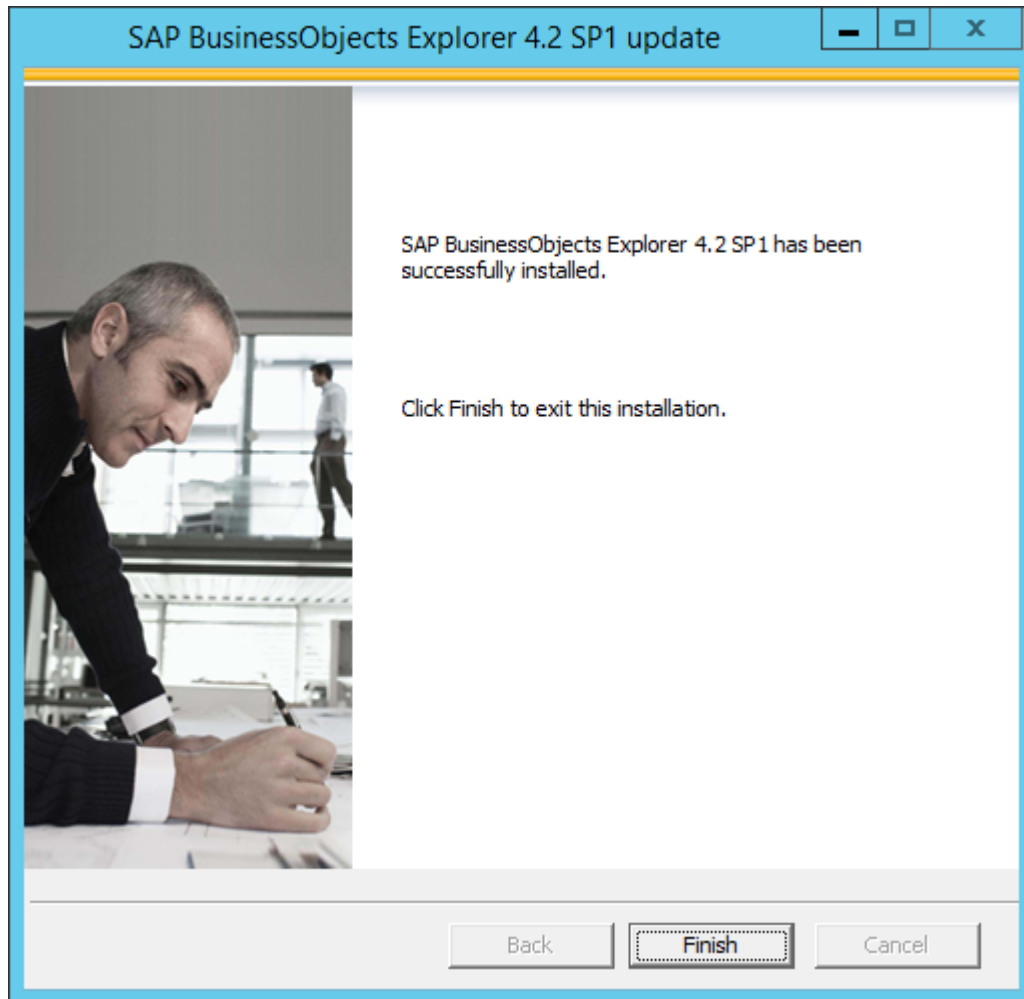
- Track the Task Manager for setup.exe until the UI has launched for installation. On successful execution, the UI gets launched indicating the progress bar.



7. **Post Installation** window appears, to continue choose **Next**.



8. Choose **Finish** to complete installation.



Post completion of deployment of war files, we can restart the Server Intelligence Agents of CMS 1 and CMS 2 hosts on this landscape.

Resume after Cache – in Sequence

Resume after Cache CMS for CMS1. (Sequentially)

In this workflow, we've followed **resume_after_cache** sequentially for one server at a time.

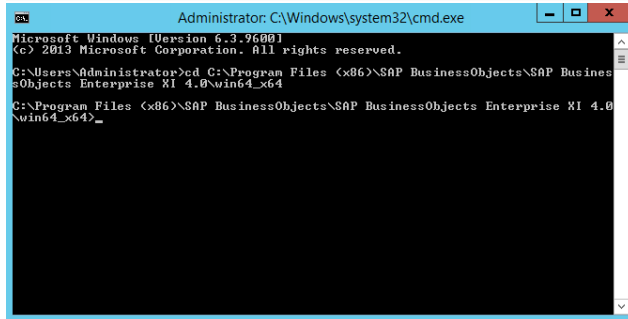
1. Stop the SIA 2 for CMS server 2 while running **resume_after_cache** for Server 1, so that there is no inconsistency. For Server 1 make sure only CMS and input and output file repository server is running in node 1 and no other servers are running.
2. Once the **resume_after_cache** is completed, do not restart any of the SIA or any of the hosts till **resume_after_cache** is completed in all the servers (CMS+APP+WEB+explorer). This is applicable for BI 4.2 base build only.
3. With BI 4.2 SP 2 onwards, it recommended to complete resume after cache on the primary CMS machine first and then reboot the primary CMS and add the 4.2 license key through the command line or through CMC which have been deployed through

wacs.Post addition of the 4.2 SP 2 licenseKey , resume after cache can be continued synchronously in parallel for the machines in the intelligence tier and thereafter for the Processing Tier and then the Web tier.

4. Please follow the below steps to add license key after the update of the first CMS through resume_after_cache.

5. Step 1: Go to command prompt and navigate till

6. <InstallDir>\SAP BusinessObjects Enterprise XI 4.0\win64_x64



```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

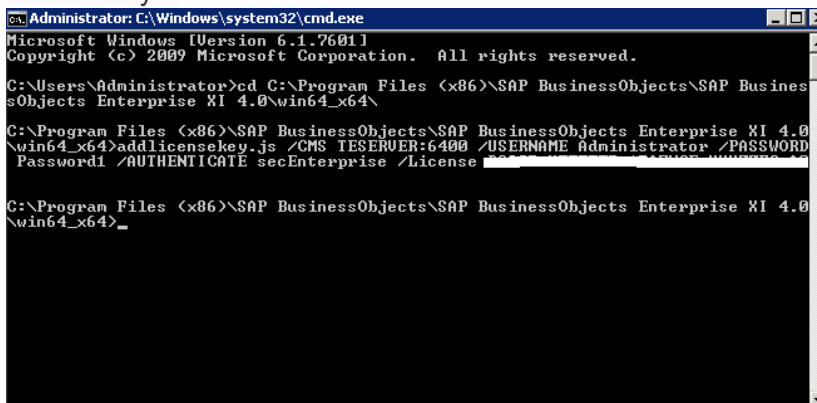
C:\Users\Administrator>cd C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\win64_x64

C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\win64_x64>
```

- 7.

8. Step 2: Run command

9. "addlicensekey.js /CMS <hostname:cmsport> /USERNAME Administrator /PASSWORD <administrator account password> /AUTHENTICATE secEnterprise /License <licensekey>"



```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Administrator>cd C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\win64_x64\

C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\win64_x64>addlicensekey.js /CMS TESERVER:6400 /USERNAME Administrator /PASSWORD Password1 /AUTHENTICATE secEnterprise /License

C:\Program Files (x86)\SAP BusinessObjects\SAP BusinessObjects Enterprise XI 4.0\win64_x64>
```

- 10.

11. Adding through WACS

12. Step 1: Login through the WACS url

13. http:// <hostname:wacsport>/BOE/CMC

14. Step 2: Navigate to License key tab in cmc , remove the license key and add the new key immediately.

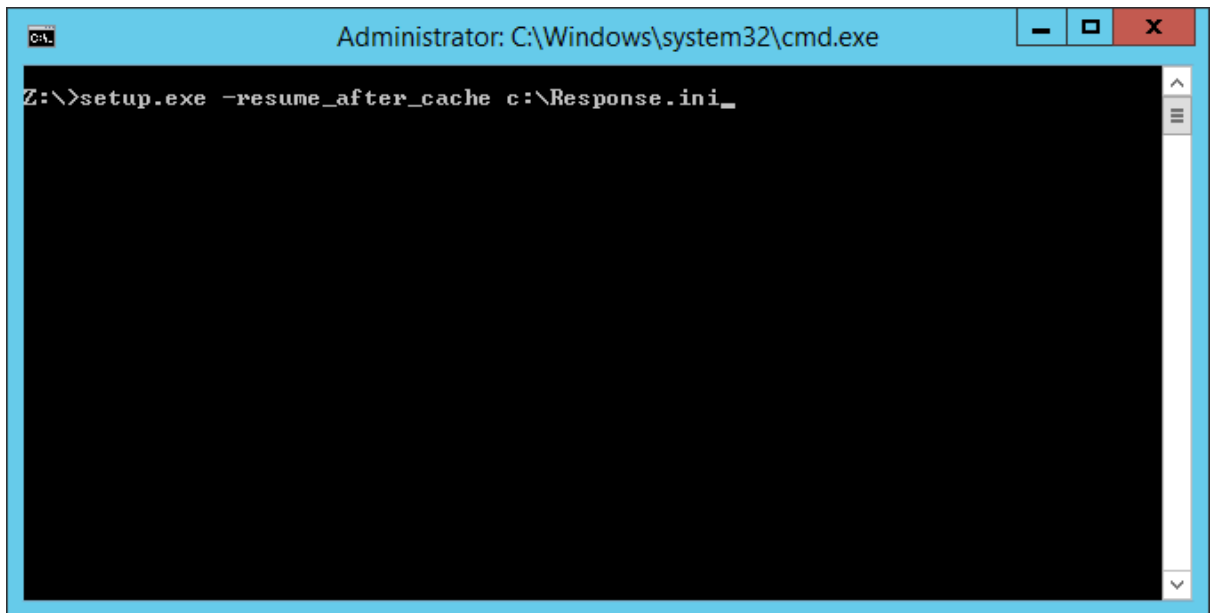
15. Ensure that Windows update service is disabled in the host, so that the machines do not get restarted post completion of the setup.

16. Navigate to **regedit>local machines>systems>Current Control set>control>session manager>PendingFileRenameOperations>delete file.**

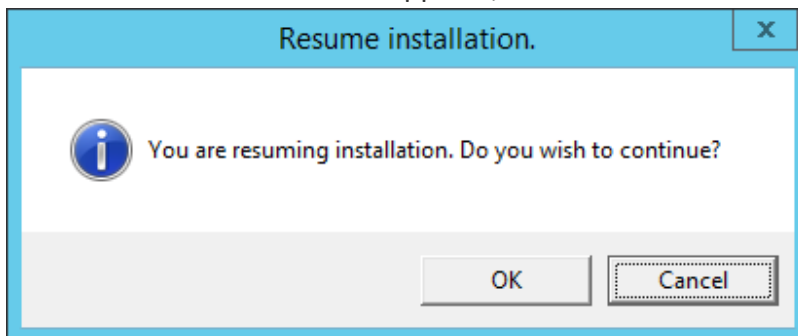
17. Navigate to **C drive >Response.ini.**

18. Change the password in notepad++ and save it.

19. Open command prompt and type the below command:



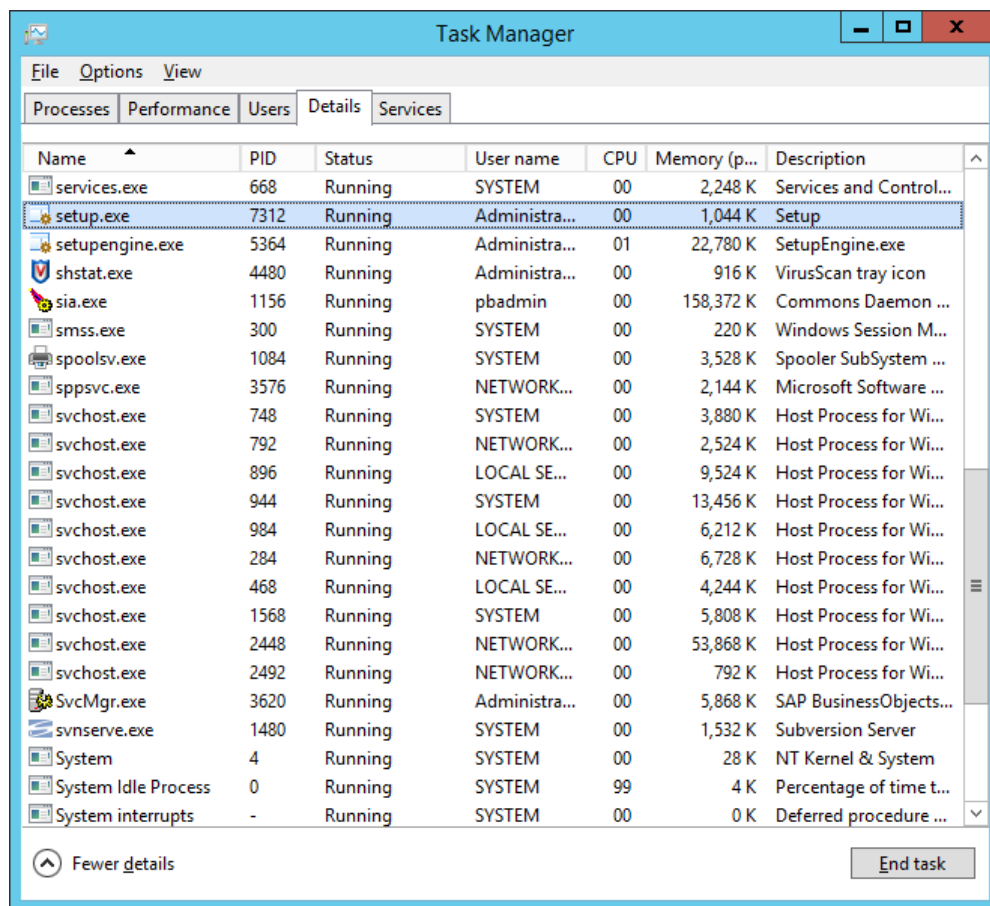
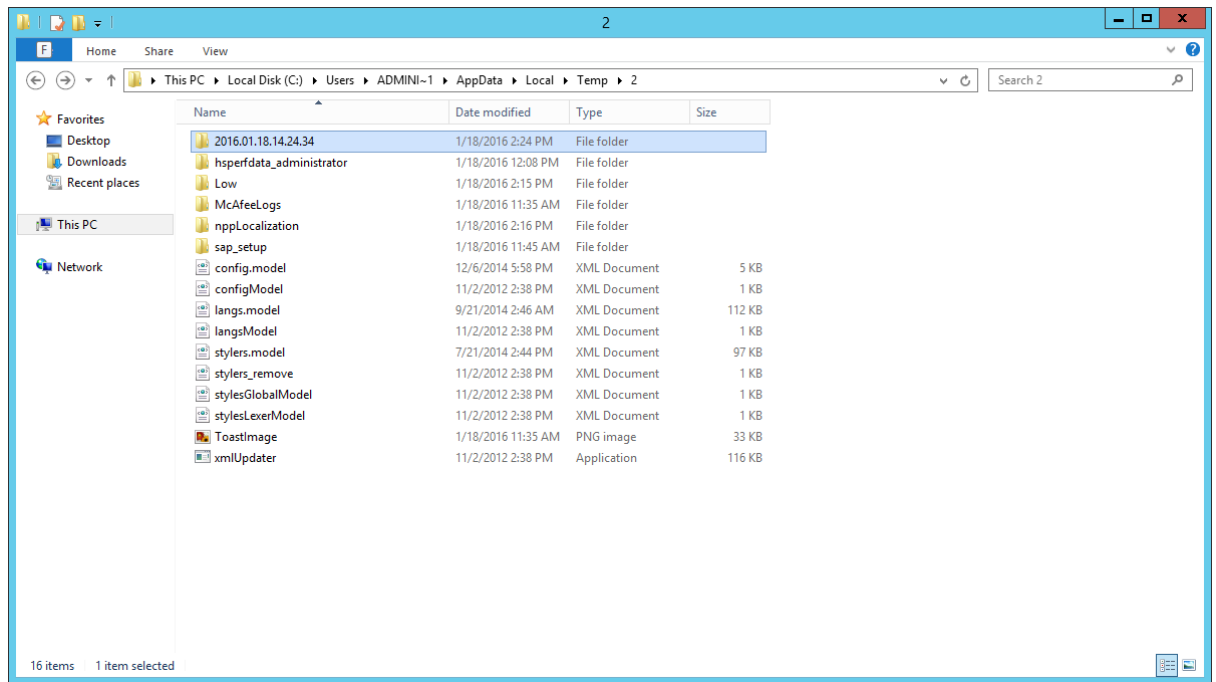
20. **Resume Installation** window appears, to continue choose **OK**.



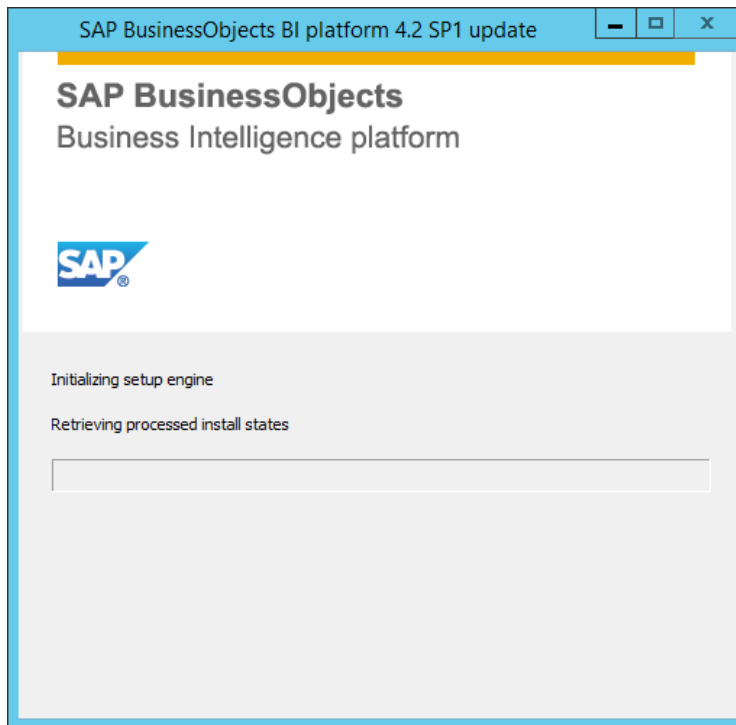
21. Check **%temp%** folder for Errors and Warnings log.

22. Check **Task Manager** to monitor the setup.exe.

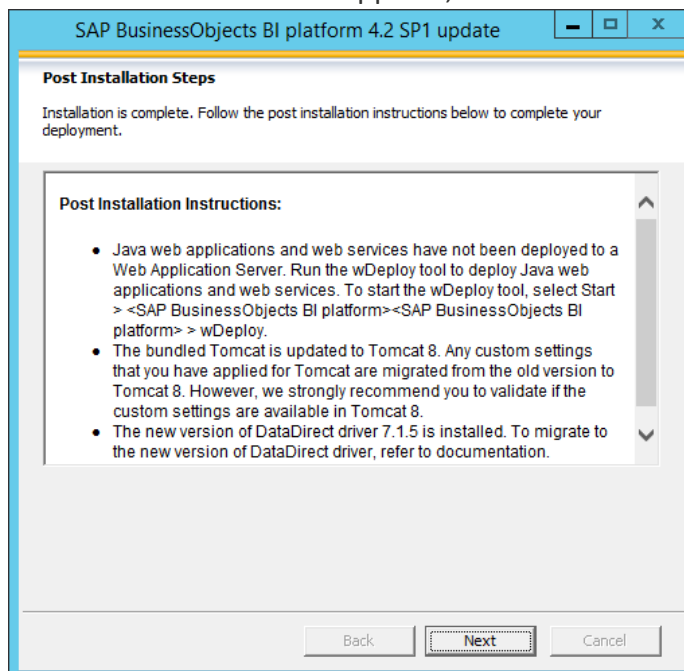
Note: If the setup.exe does not crash and there are no errors and warnings in the in temp folder, then wait for the installer to launch.



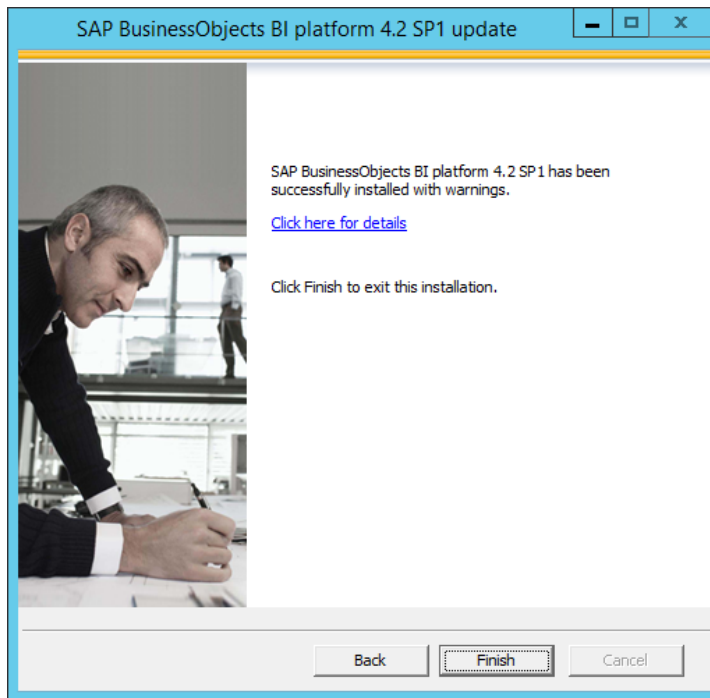
Installation wizard appears with progress bar.



23. **Post Installation** window appears, to continue choose **Next**



24. Choose **Finish** to complete installation.

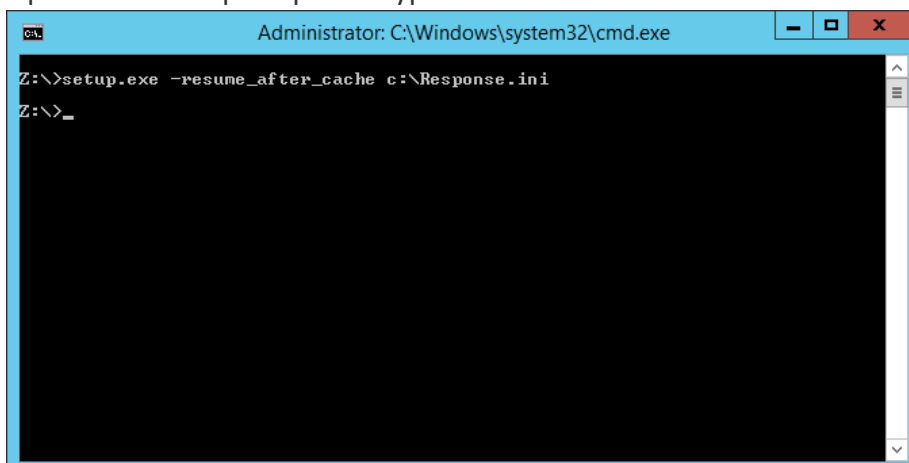


Once resume after cache is completed for CMS 1, users can follow the same process for **resume_after_cache** for CMS server 2. During **resume_after_cache** for server 2, there is no need to start CMS for CMS server 2, users can enter the CMS machine name of node 1 for execution of the setup.

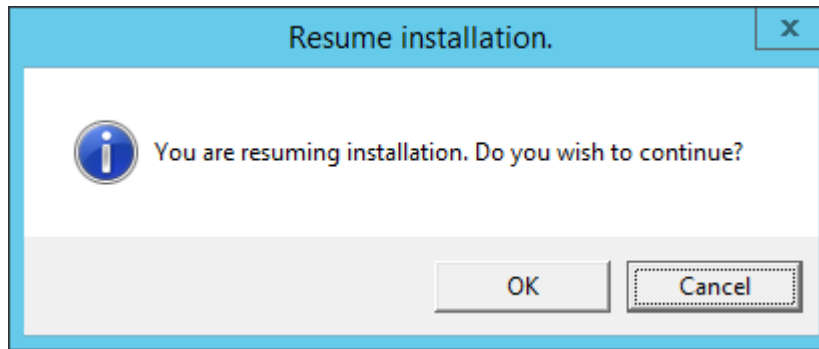
Resume after Cache for BOE 4.2 SP1 for Tomcat (Sequentially)

In this workflow, we've followed **resume_after_cache** sequentially for one server at a time.

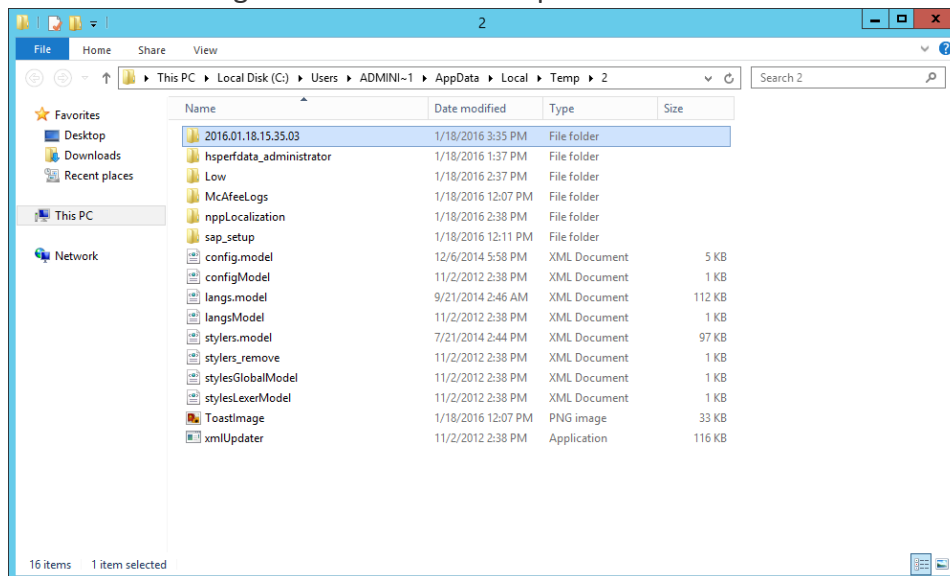
1. Stop Tomcat for Tomcat server 2 while running **resume_after_cache** for Tomcat Server 1 so that there is no inconsistency.
2. Navigate to **regedit>local machines>systems>Current Control set>control>session manager>PendingFileRenameOperations>delete file.**
3. Navigate to **C drive >Response.ini.**
4. Change the password in notepad++ and save it.
5. Open command prompt and type below command:

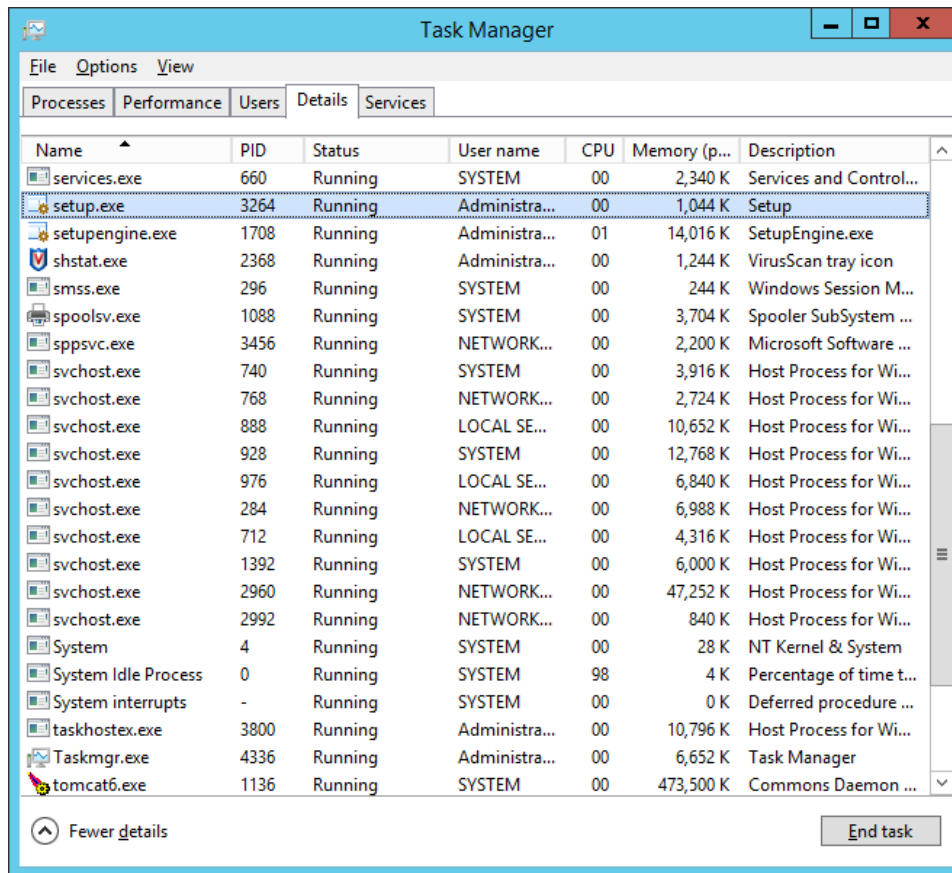


6. **Resume Installation** window appears, to continue choose **OK**.

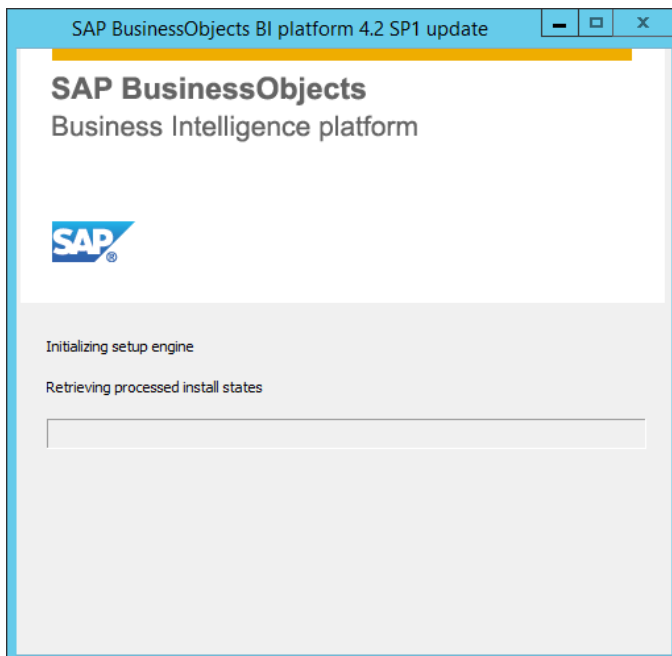


7. Check %temp% folder for Errors and Warnings log.
8. Check Task Manager to monitor the setup.exe.

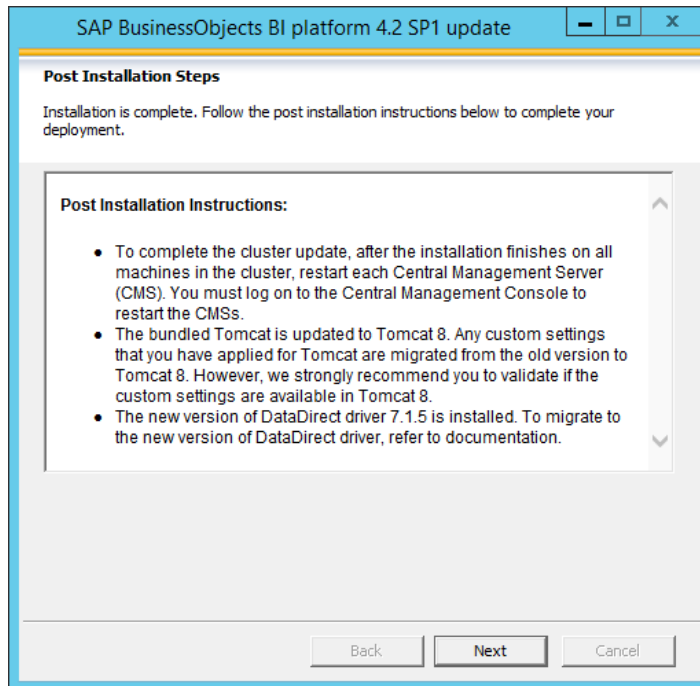




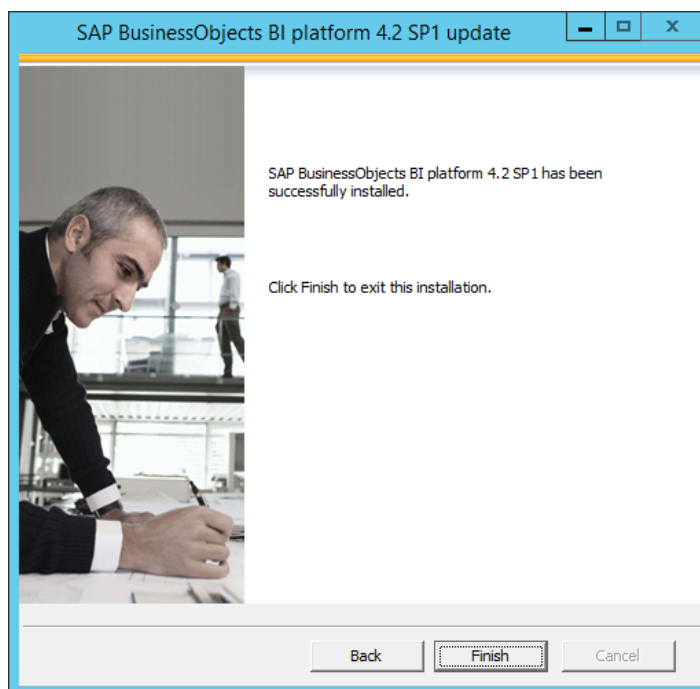
Installation window appears with progress bar.



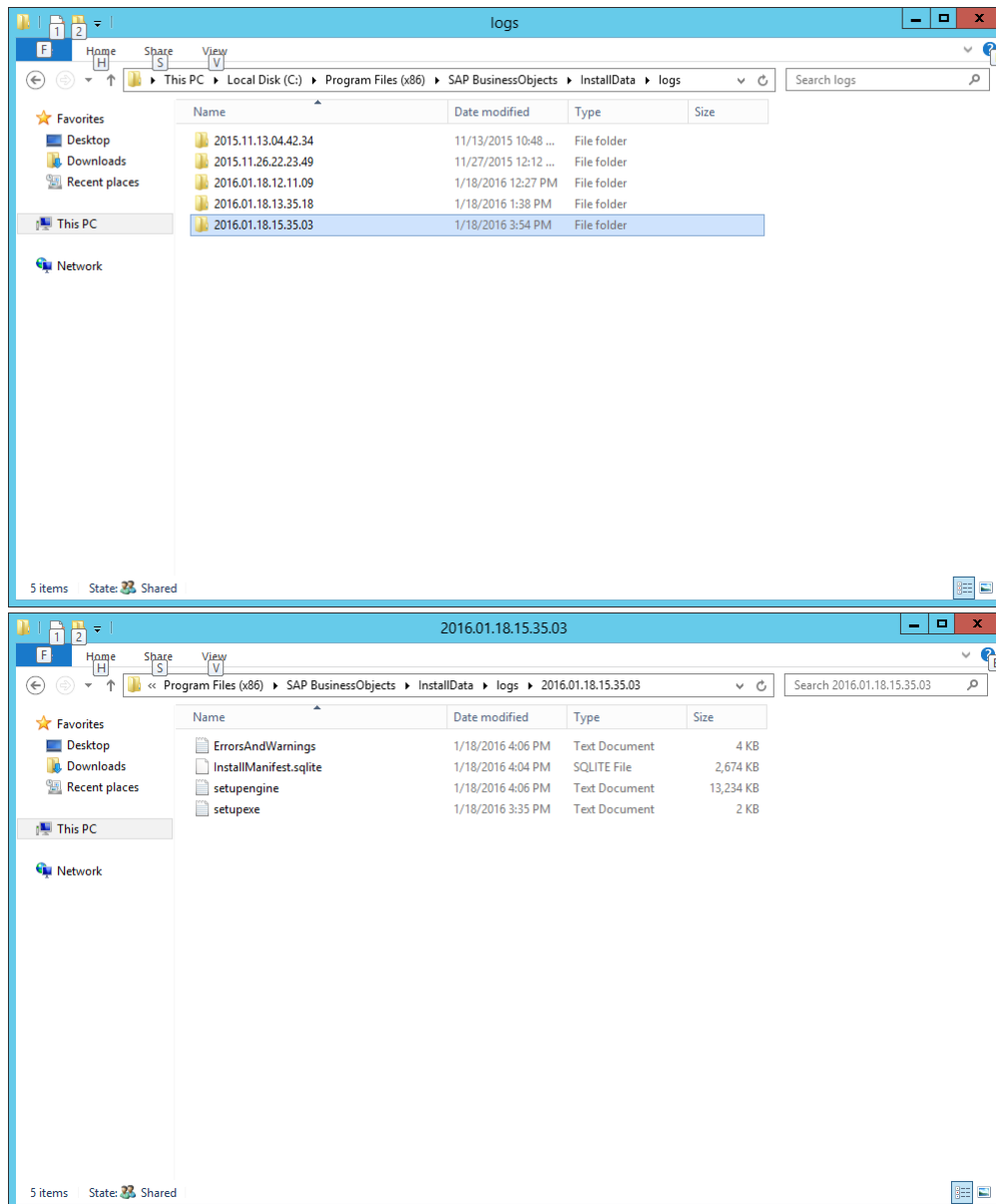
9. **Post Installation** window appears, to continue choose Next.



10. Choose **Finish** to complete installation.



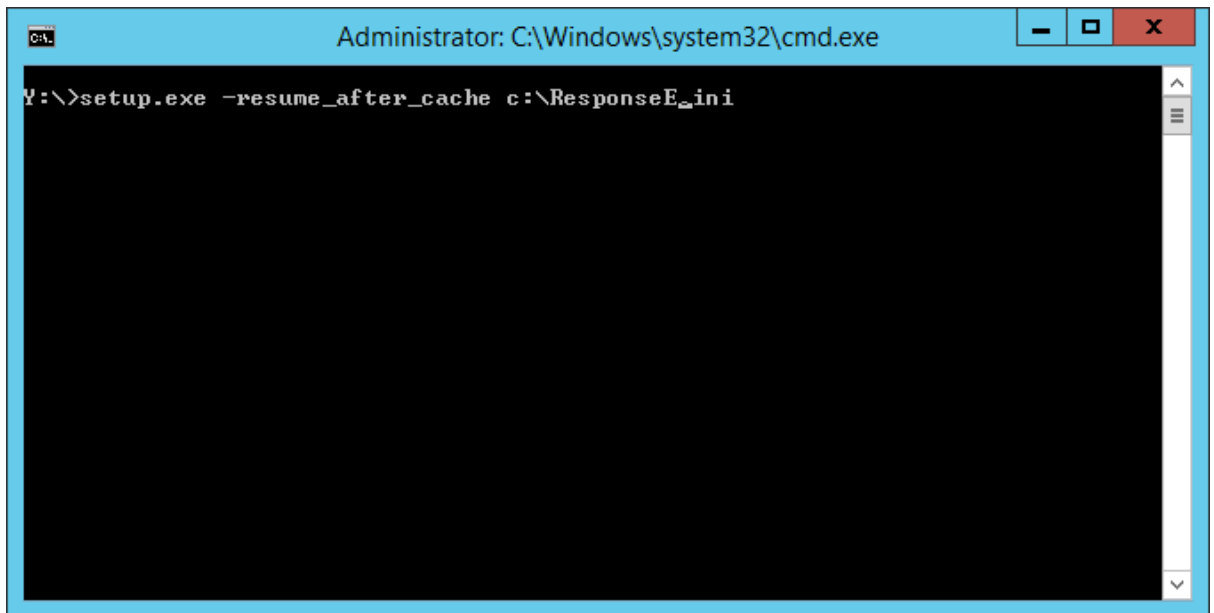
11. Check logs in **SAP BusinessObjects** Folder.



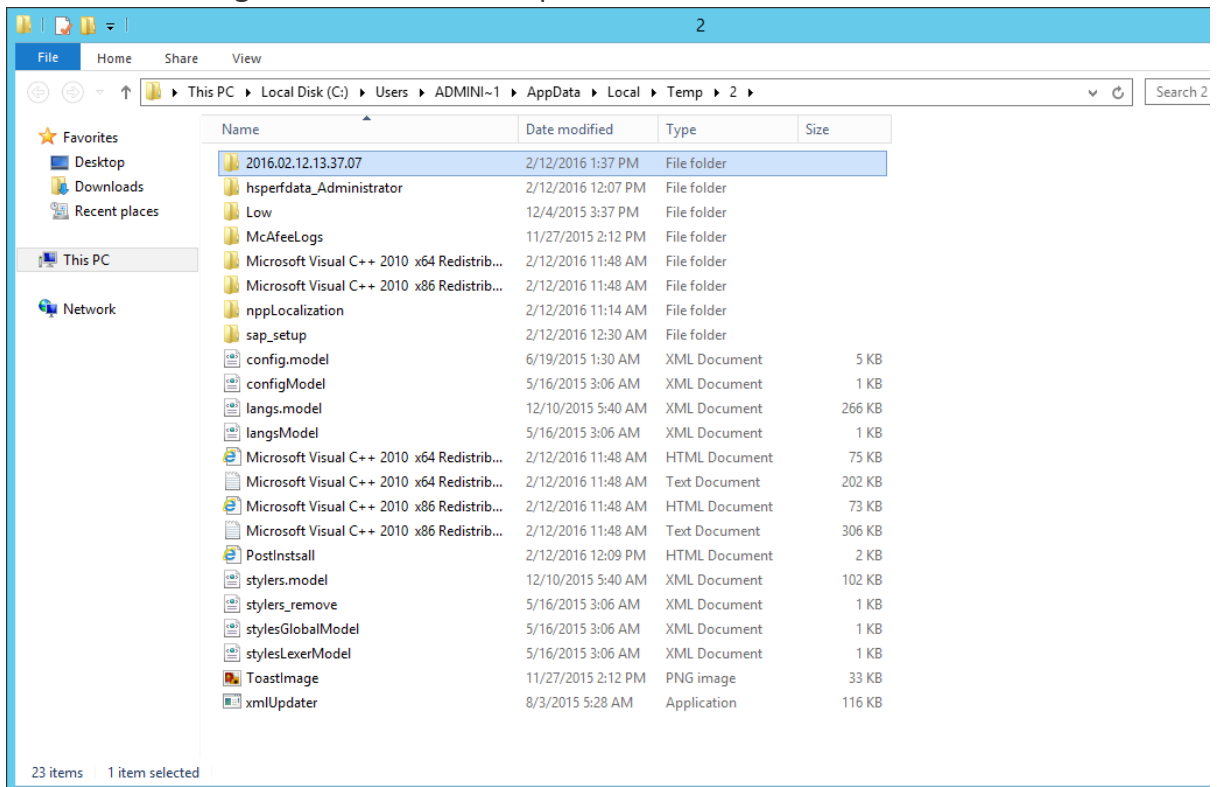
Once **resume_after_cache** is completed for Tomcat 1, users can follow the same process for **resume_after_cache** for Tomcat server 2. During **resume_after_cache** for server 2, there is no need to start Tomcat for Tomcat server 2.

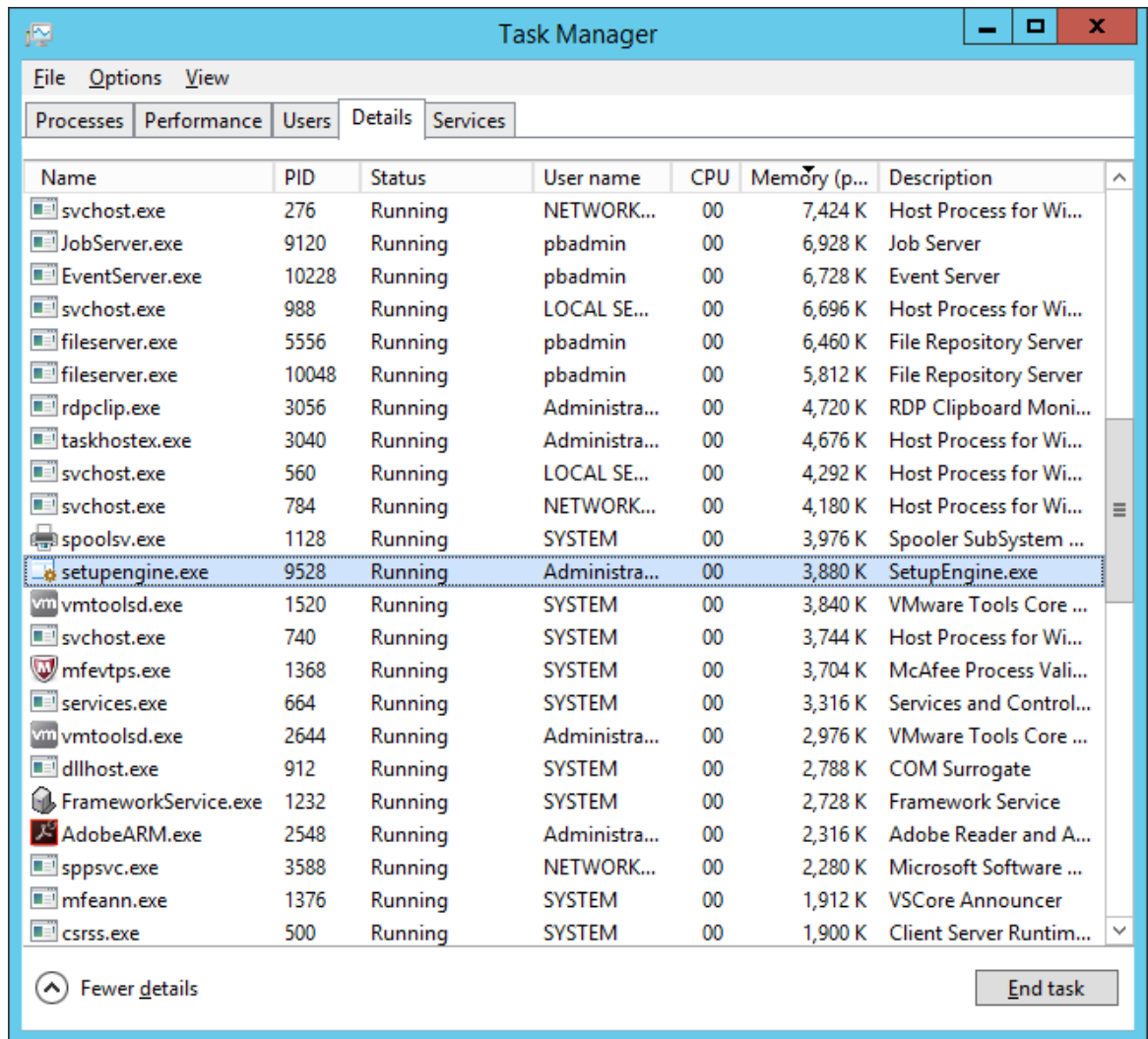
Resume after cache for Explorer CMS ADD ON 4.2 SPS1 installation on CMS servers (Sequentially)

1. Execute the command in command prompt as shown in the screenshot. Here, **Z:** is the mapped drive with the installer of the Explorer setup.
2. A response file with the name **ResponseE.ini** has already been created in **C:** prior to execution of the command.

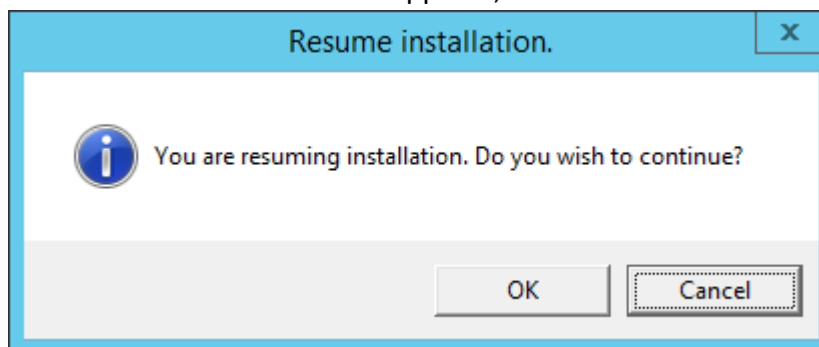


3. Check **%temp%** folder for Errors and Warnings log.
4. Check **Task Manager** to monitor the setup.exe.

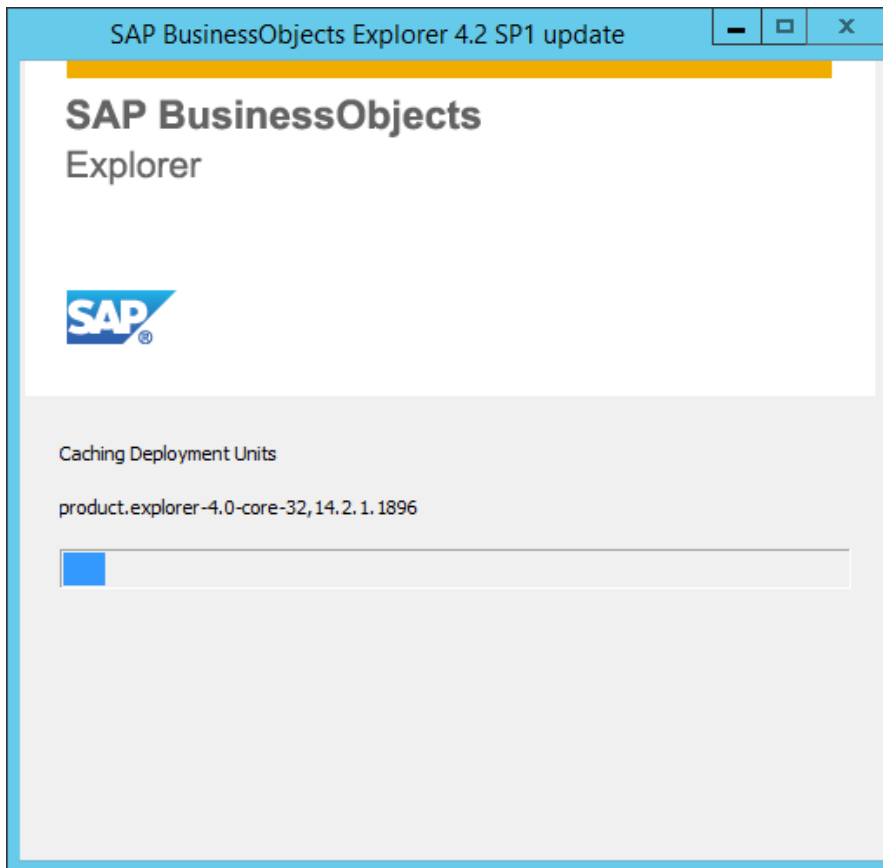




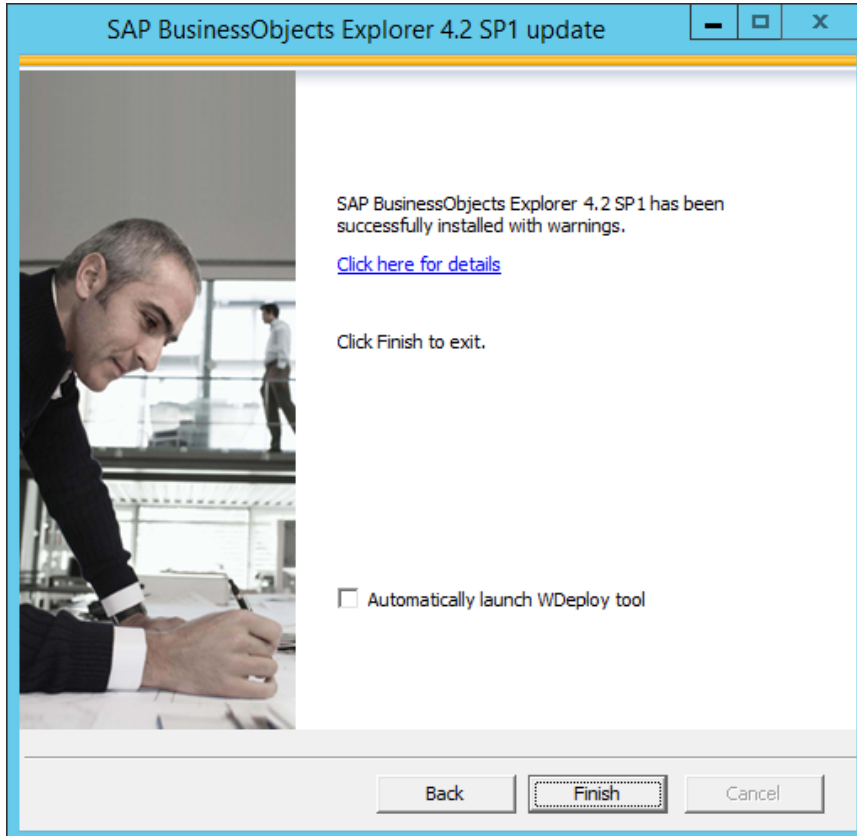
5. **Resume Installation** window appears, to continue choose **OK**.



Installation window appears with progress bar.



6. Choose **Finish** to complete installation.

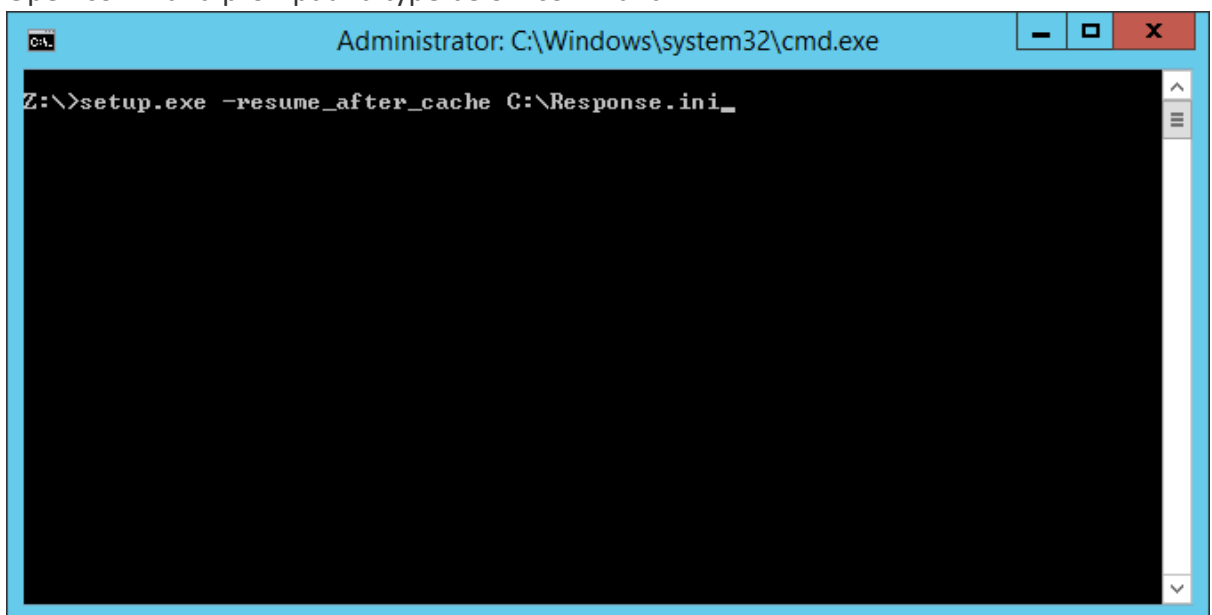


Users can select Finish to complete the installation. If users select the **Automatically launch Wdeploy tool** option, then the Wdeploy tool will be launched through which users can deploy the Explorer war file for WACS in this machine.

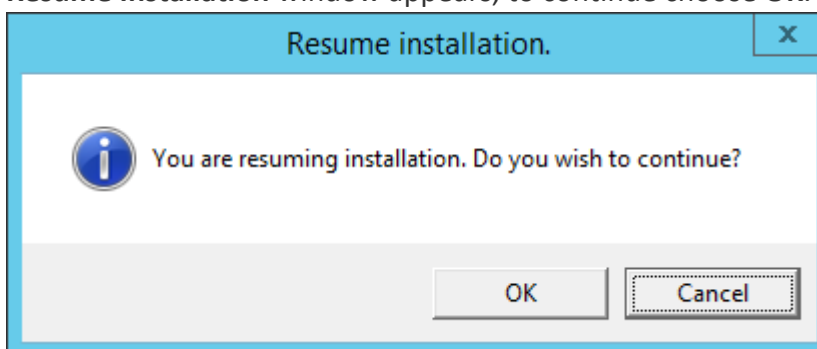
As the Web-Tier is in separate hosts in this pattern the war files will be deployed separately in the Tomcat hosts.

Resume after cache in Explorer Server (Sequentially)

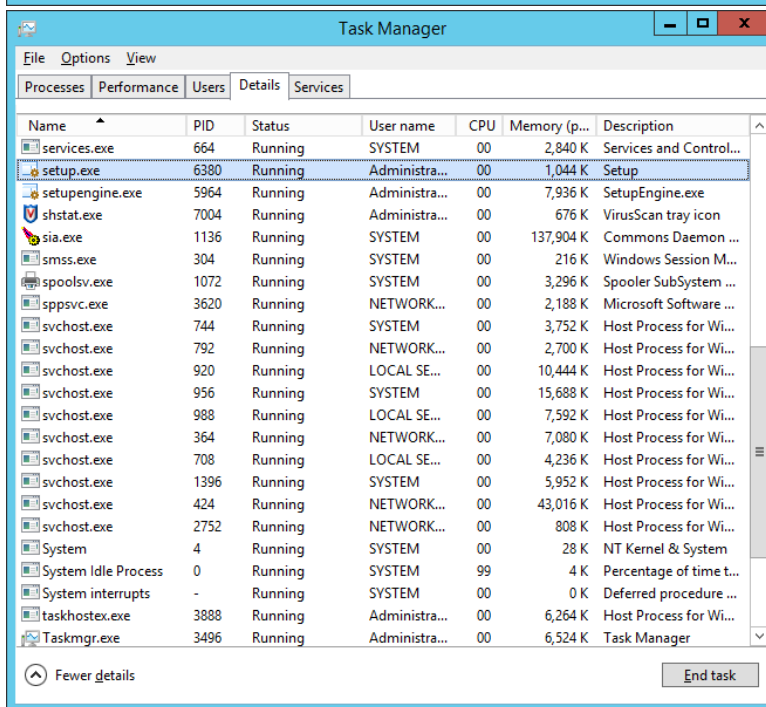
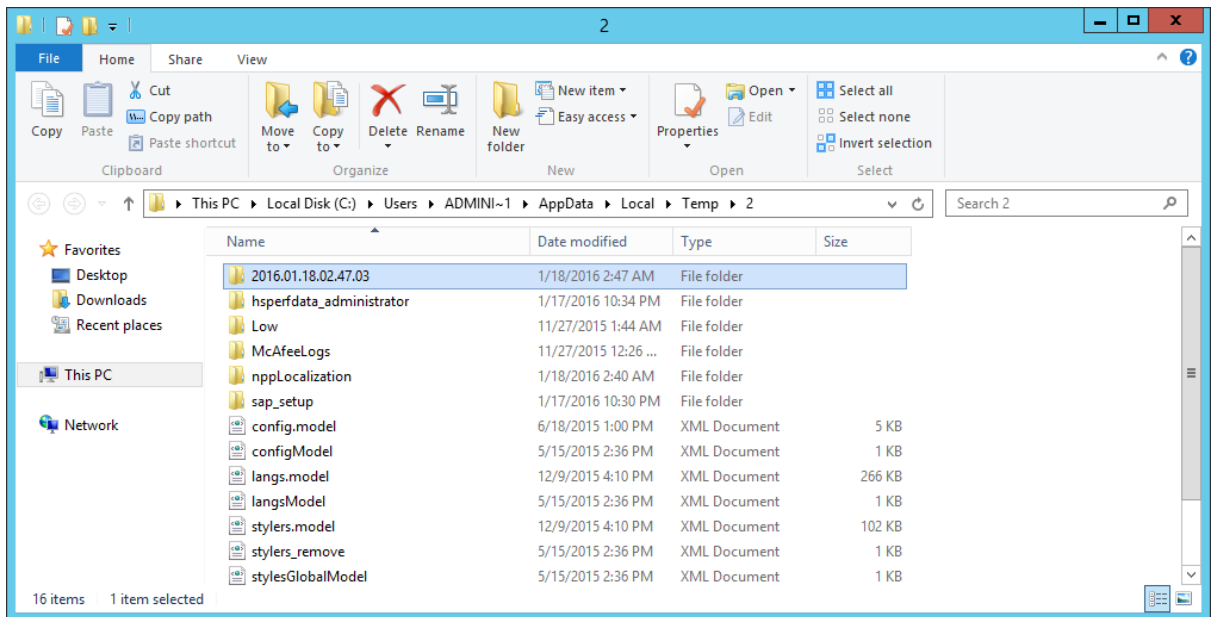
1. Navigate to **regedit>local machines>systems>Current Control set>control>session manager>PendingFileRenameOperations>delete file** and go to **C drive>Response.ini**.
2. Change the password in notepad++ for the user and save it.
3. Open command prompt and type below command:



4. **Resume Installation** window appears, to continue choose **OK**.

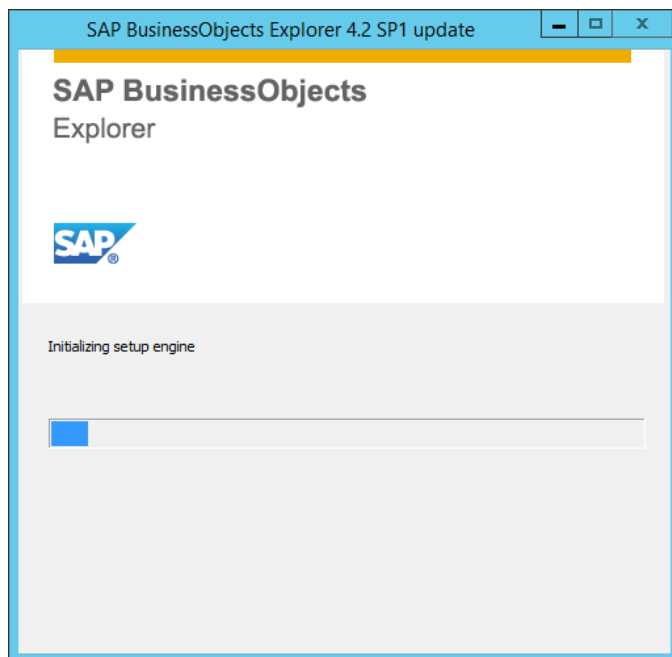


5. Check **%temp%** folder and Task manager and monitor setup.exe.

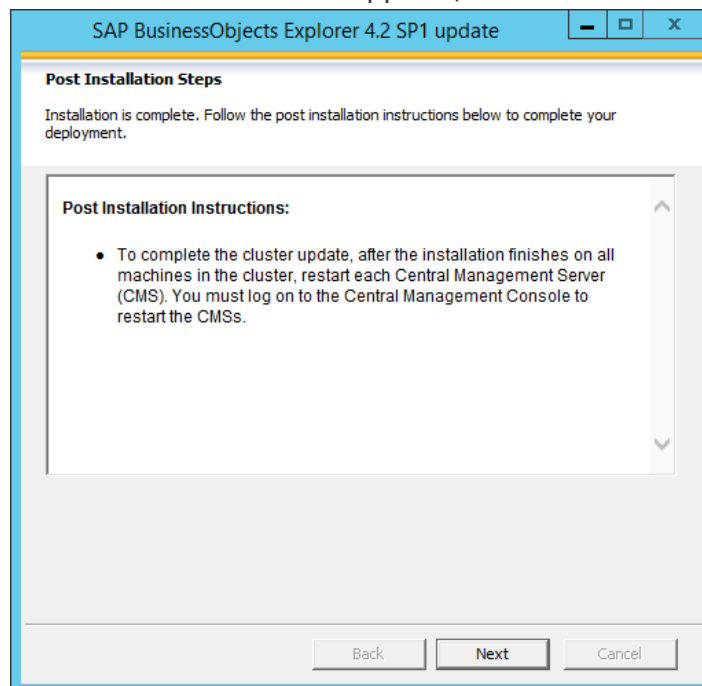




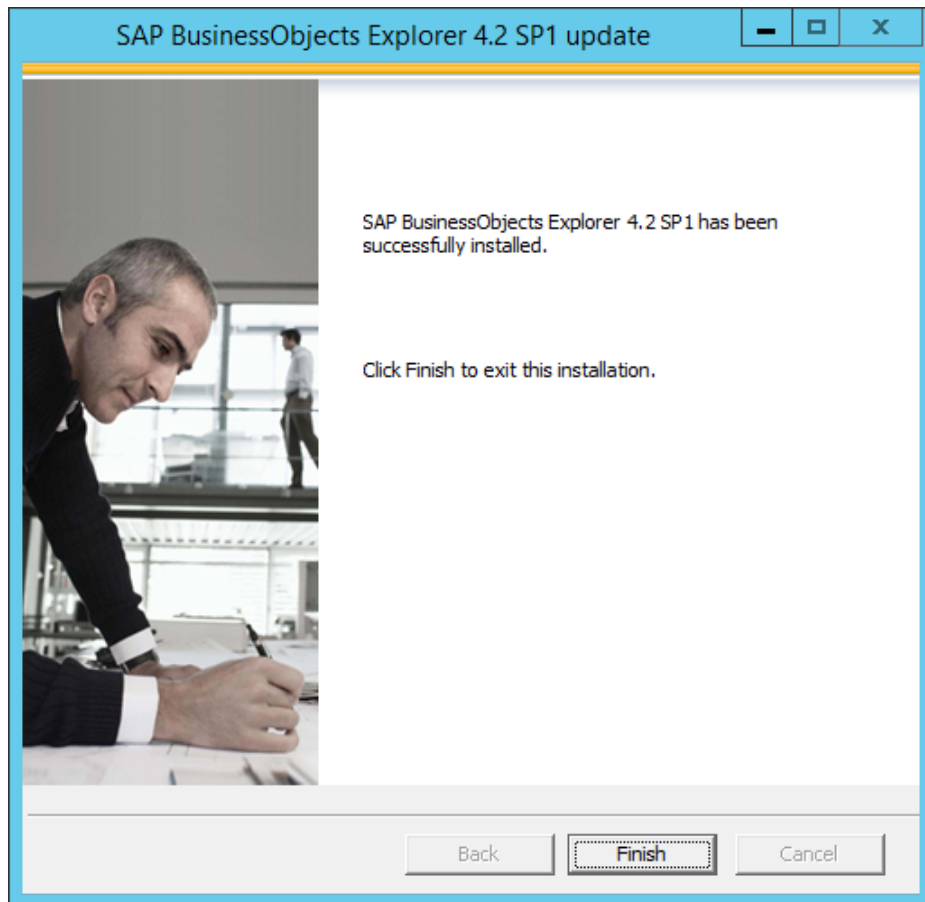
Installer will start



6. **Post Installation** window appears, to continue choose **Next**.



7. Choose **Finish** to complete installation.



Resume after cache in Tomcat Explorer (Sequentially)

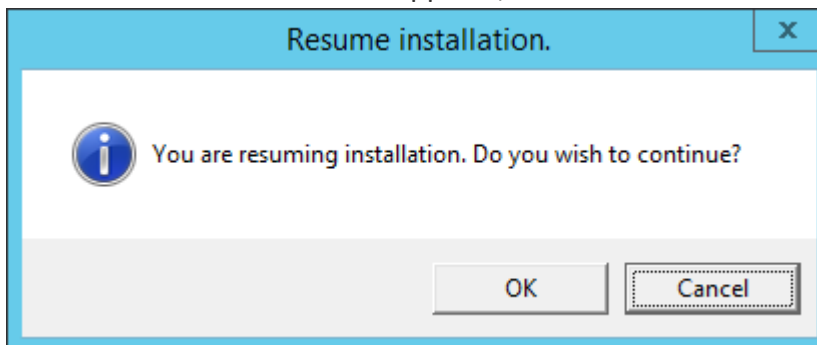
In this pattern book workflow, we've followed **resume_after_cache** sequentially for one server at a time.

1. Stop Tomcat for Tomcat server 2 while running **resume_after_cache** for Tomcat Server 1 so that there is no inconsistency state.
2. Navigate to **regedit>local machines>systems>Current Control set>control>session manager**
>PendingFileRenameOperations>delete file.
3. Navigate to **C drive >Response.ini**.
4. Change the password in notepad++ and save it.
5. Open command prompt and type below command:

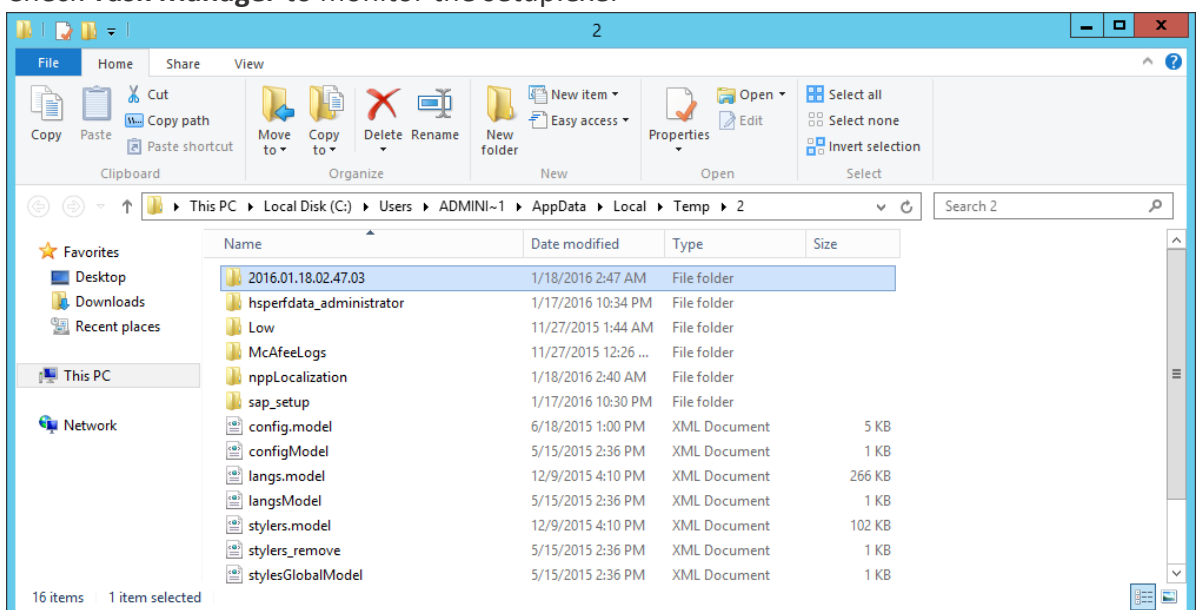
```
Administrator: C:\Windows\system32\cmd.exe

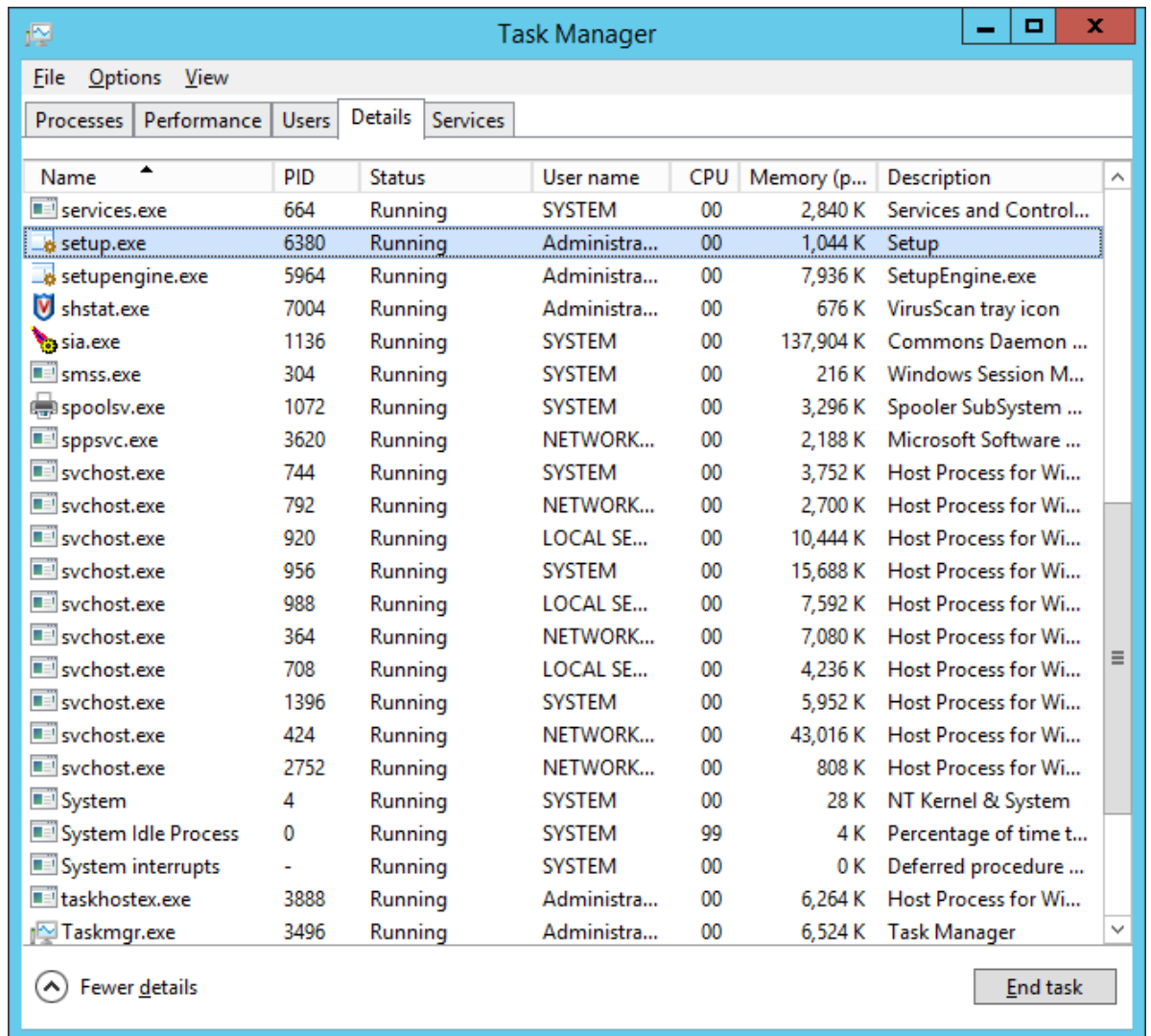
Z:\>setup.exe -resume_after_cache c:\Response.ini
Z:\>y:
Y:\>setup.exe -resume_after_cache c:\ResponseE.ini
Y:\>_
```

6. **Resume Installation** window appears, to continue choose **OK**.

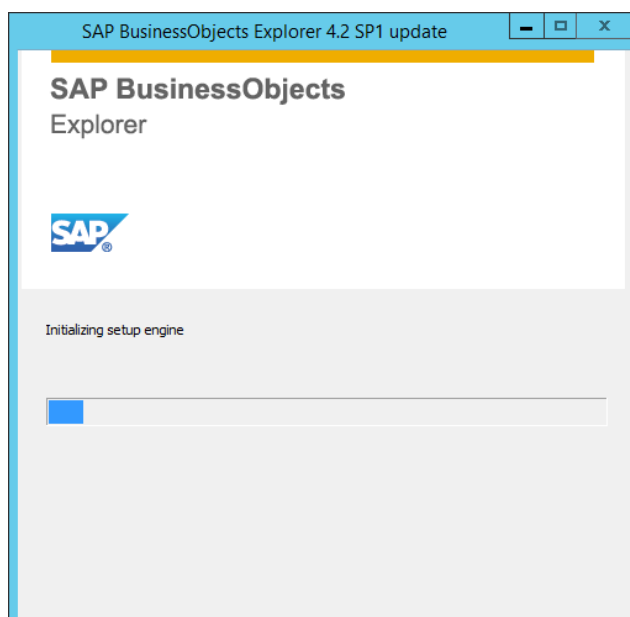


7. Check **%temp%** folder for **Errors and Warnings** log.
8. Check **Task Manager** to monitor the setup.exe.

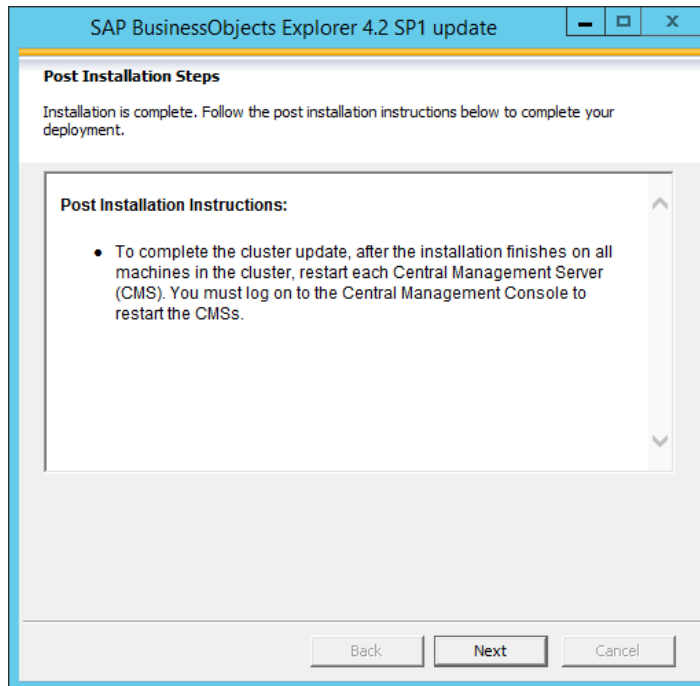




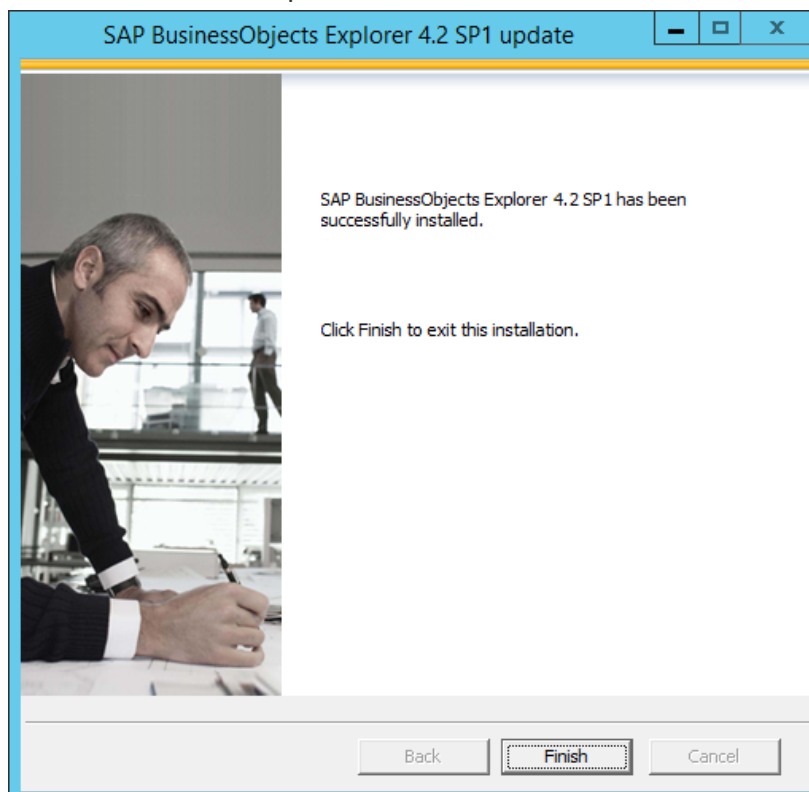
Installation wizard appears with progress bar.



9. **Post Installation** window appears, to continue choose **Next**



10. Choose **Finish** to complete installation.



Once **resume_after_cache** is completed for Explorer web update in Tomcat1, administrator can follow the same process for **resume_after_cache** for Explorer web update in Tomcat 2. During **resume_after_cache** for Explorer web update in Tomcat 2, there is no need to start Tomcat instance for Tomcat server 2.



11. Restart all SIAs, 2 CMS and 1 explorer SIA (WINPB04—01 – Explorer, WINPB04-02 PB4SIA1 and WINPB04-03- PB4SIA2) after the completion of the update

Post Update

This section talks about post update.

Post Update Check & Validation

Ensure to follow these steps, once you have completed the main update:

1. If SIA is running, then go to **Task Manager** and check whether CMS.exe is running in the **Details** tab of the **Task Manager**.
2. If you notice one of the CMS has failed to start, then follow the SAP Note [1711203 - Error: "Failed to retrieve the cluster name from the database. Reason: Parser failed to initialize" on Configuration tab in SIA](#) to rectify the same.
3. If there is no CMS.exe, and SIA is running, then you must stop the SIA and try to reconnect the SIA to the CMS database. However, if you get an error (FW 00090), follow the SAP Note [1711203 - Error: "Failed to retrieve the cluster name from the database. Reason: Parser failed to initialize" on Configuration tab in SIA](#) to rectify the same
4. After the update, Tomcat configuration file would have changed. Users have to edit the changes that are required in the “*server.xml*” file. After update, *Server.xml* would have changed to default config. (For example: In a split tier installation, the “*jvmRoute*” in *server.xml* would have changed)
5. After launching CMC or BI Launchpad or explorer if you still find that the screen is blank check whether they are launched through WACS or Application server like Tomcat.
Also, try with a different browser and if you still find the same issue redeploy the war files in the App server (Tomcat).
6. After the installation through **resume_after_cache**, be it sequential or parallel, check the <**install dir**>**setup>packagetemp** folder. It should not contain more than one DFO

Optional: Installing Lumira Server for BusinessObjects BI Platform (LS4BIP)

Known Issues and Challenges: Updating SAP BusinessObjects BI 4.x System to BI 4.2 Release

This section talks about known issue.



1952120 - SAP BusinessObjects (XI 3.1 and BI 4.0) Installation Prerequisites and Best Practices

These are the issues and challenges referenced by the team while executing the update project:

- [1711203 - Error: "Failed to retrieve the cluster name from the database. Reason: Parser failed to initialize" on Configuration tab in SIA](#)
- [1952120 - SAP BusinessObjects \(XI 3.1 and BI 4.0\) Installation pre-requisites & best practices](#)