

NetBackup IT Analytics Installation and Upgrade Guide for Windows

Release 11.1

VERITAS™

NetBackup IT Analytics Installation and Upgrade Guide for Windows

Last updated: 2024-02-29

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Veritas Technologies LLC
2625 Augustine Drive.
Santa Clara, CA 95054

<http://www.veritas.com>

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https://sort.veritas.com/data/support/SORT_Data_Sheet.pdf

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Install NetBackup IT Analytics Portal on a Windows server

This chapter includes the following topics:

- [Introduction](#)
- [Multi-language support and locale considerations \(Windows\)](#)
- [Task 1: Portal and database deployment strategies \(Windows\)](#)
- [Task 2: Pre-installation configuration \(Windows\)](#)
- [Task 3: Installing Oracle application binaries \(Windows\)](#)
- [Task 4: Installing Portal application binaries \(Windows\)](#)
- [Task 5: Request the license key file \(Windows\)](#)
- [Task 6: Log into the Portal \(Windows\)](#)
- [Task 7: Install the license key file \(Windows\)](#)
- [Task 8: Performing a cold backup \(Windows\)](#)
- [Supported third-party and open source products](#)
- [Uninstall the NetBackup IT Analytics Portal](#)

Introduction

Local Administrator privileges are required for installing all Portal Server components. This document contains images, command-line prompts, and responses that provide a reasonable representation of the installation experience. However, the actual text and values seen may differ during the installation based on the installation environment and available resources.

Multi-language support and locale considerations (Windows)

Apart from English, you can perform the portal installation in Simplified Chinese, French, Korean, and Japanese. Once you have set the language preference, the installation progress and responses appear in your preferred language. Note that this language preference setting is only confined to the installation process and has no impact on the text of the portal UI.

To install the portal in your preferred language, Windows OS must be a native OS in either Simplified Chinese, French, Korean, or Japanese. Avoid having Windows OS in English installed with language pack and changing the locale later. The portal installer detects the locale from the Windows Language Settings and launches the installer in the respective locale.

If the Windows Language Setting is set to a language other than Simplified Chinese, French, Korean, or Japanese, the installer is launched in English. Having completed the language settings, you can proceed with the installation of the NetBackup IT Analytics Portal.

See [“Task 1: Portal and database deployment strategies \(Windows\)”](#) on page 7.

Task 1: Portal and database deployment strategies (Windows)

Installing Oracle and portal binaries on the same server (Windows)

For the typical Portal installation, the installation process consists of these main tasks:

1. Verify that you have the latest binaries for the version you are installing.
2. Install Oracle application binaries.

3. Install the NetBackup IT Analytics Portal software components and the database schema.

Task 2: Pre-installation configuration (Windows)

1. Choose a Portal Server. For performance reasons, the NetBackup IT Analytics Portal software should not be installed on the same server as the Data Collectors. If, for some reason, you require both to be on the same server, be sure that both the Portal and Data Collector software do not reside in the same directory on the server. Root privileges are required for the Portal software installation tasks.

You will need to log in as a **Local Administrator** to perform the installation. Oracle requires that you are logged in as a **Local Administrator**. Logging in as a Domain Administrator is not sufficient for this installation. Refer to the Oracle web site for the requirement to install on Windows as a user who is a member of the server's local Administrator's group.

2. For new Portal installations, the minimum server memory requirement is 32 GB. Oracle database requires a minimum of 24 GB of memory. Portal installations will fail if sufficient memory resources are not available on the Portal server.
3. The Portal Installation software checks the following resources:
 - Total physical memory (physical + virtual) must be greater than 24 GB, otherwise Oracle will fail to start. Add more physical memory to the Portal server.
 - Windows Virtual Memory must be 24 GB or greater, otherwise Oracle will fail to start. Increase the size of the virtual memory if required (**Windows > System > Advanced System Settings > Advanced tab > Settings > Advanced tab > click Change**).
4. Verify the OS of the Portal Server. Check that the OS is one of the certified operating systems listed in the *Certified Configurations Guide*.
5. Verify the Third-Party Software list.
See "[Supported third-party and open source products](#)" on page 22.
6. Verify Microsoft Visual C++ Runtime libraries are installed.

NetBackup IT Analytics installs Apache HTTP Server which has a dependency on run-time components of Visual C++ libraries. These run-time components are included in the Microsoft Visual C++ 2015 Redistributable Update 3 RC. This Microsoft distribution is available for download from www.microsoft.com.

If this redistributable update is not installed prior to running the NetBackup IT Analytics installer, Apache HTTP Server will not be able to run.

Note: If you installed Microsoft Visual C++ 2015 after NetBackup IT Analytics 10.3.xx was installed, and services are failing, you must manually install the Apache service using the following command:

```
C:\opt\apache\bin\httpd -k install -n "APTARE Apache"
```

7. Verify that sufficient disk space exists on the designated Portal Server. For the database file systems, the amount specified is the minimum to create the database. The database grows in size over the period of time. The growth of database depends on various factors such as subsystems from which data is collected, type of systems collecting data from, retention periods for data(which is configurable), and so on.

Directory	Minimum Disk Space	Recommended Disk Space	Max. Disk Space for DB Growth	Notes
C:\opt	20 GiB	30 GiB	30 GiB	
C:\tmp	10 GiB	10 GiB	10 GiB	
C:\oradata	305 GiB	565 GiB	3445 GiB	The Installer prompts for the target drive for the <code>oradata</code> directory, so alternate drives are supported.
Total	335 GiB	605 GiB	3485 GiB	

- Add **itanalyticsportal.yourdomain** and **itanalyticsagent.yourdomain.com** entries to your enterprise DNS Server. Both entries must resolve to the IP address of the Portal server. Also note that the last component of the domain must be one of the recognized root domains; for example, **.com**--not **.3com**.
8. Verify that there are no other web servers--for example, IIS--running on the system.
 9. The installer will set up the following system-wide environment variables and update the PATH environment variable:

Variable Name	Variable Value
ORACLE_HOME	C:\opt\oracle
ORACLE_SID	scdb

The PATH environment variable will have the following path appended to the end of the current PATH:

C:\opt\oracle\bin

Task 3: Installing Oracle application binaries (Windows)

This section covers the installation of Oracle installer for both shared service edition and non-shared service edition on a Windows server.

Refer to the instructions provided with your purchase agreement confirmation email and consult the Veritas Support, if you require additional assistance.

Prerequisites for Oracle application binaries on Windows

- If you are running NetBackup IT Analytics on a version lower than Oracle 19c, you must first uninstall the older version before proceeding with this installation.
- The Oracle 19c binaries will be installed on a Windows server that will serve as the NetBackup IT Analytics Portal server. This server cannot have any other Oracle database instances installed on it.
- Oracle requires that you are logged in using an account that has administrative privileges.
- An Oracle service user name is required for installation. The Oracle service user account can be an Active Directory account.
- The Oracle service user must be a standard user and must not be a part of Administrator group
- Windows User Account can be a Windows Local User. If you want to create a new user during installation, then it can only be a Windows Local User. It cannot be a Windows Domain User or an MSA.

Note: If you use a Domain account, that user must login at least once to the Windows machine.

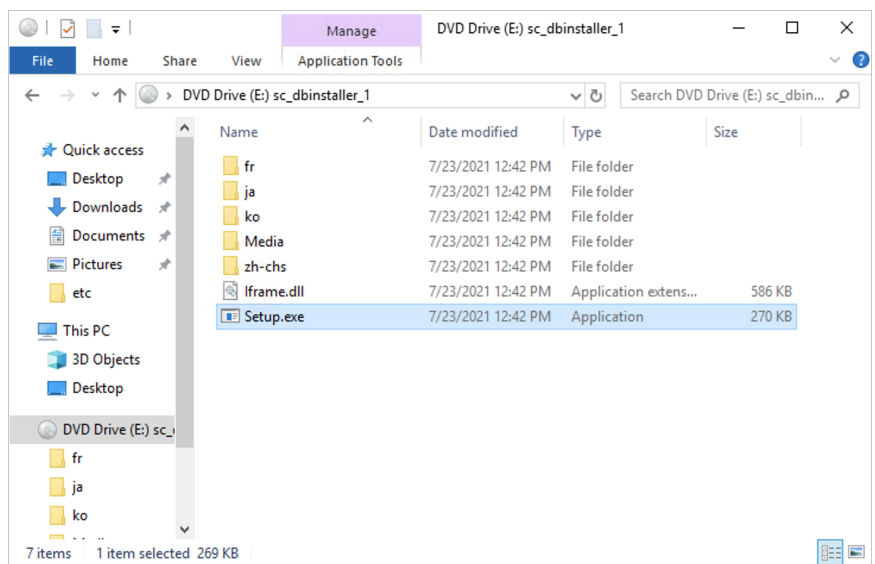
- Per Oracle requirements, passwords cannot exceed 30 characters.
- You cannot change the Oracle Home User once the installation is complete. To change the Oracle Home User, you must reinstall the Oracle Database software.

Install the Oracle binaries for non-shared service edition

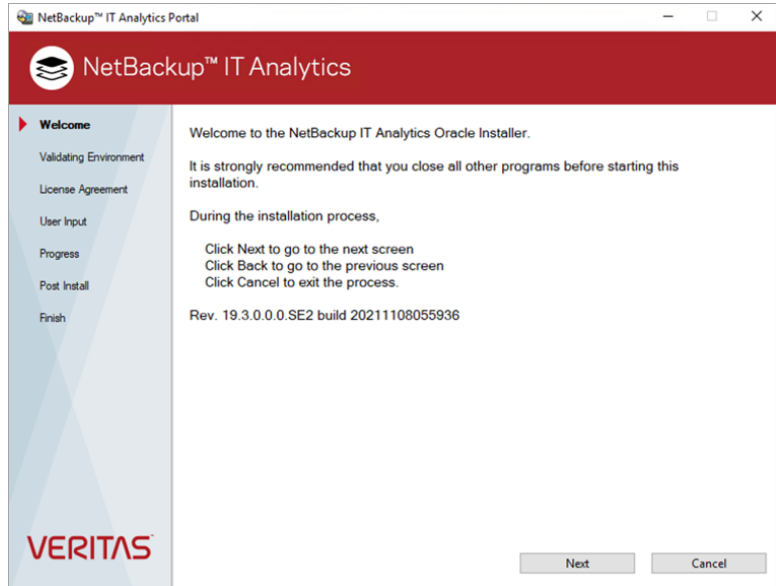
Close all other programs before you follow these steps to install the Oracle binaries.

To install Oracle 19c binaries

- 1 Log in to the Portal server as an **Administrator**. Oracle requires that you are logged in using an account that has administrative privileges.
- 2 Download the `itanalytics_dbinstaller_<version>_win.iso` file to your Windows Portal server.
- 3 Double-click the ISO file and run **Setup.exe** on the server.

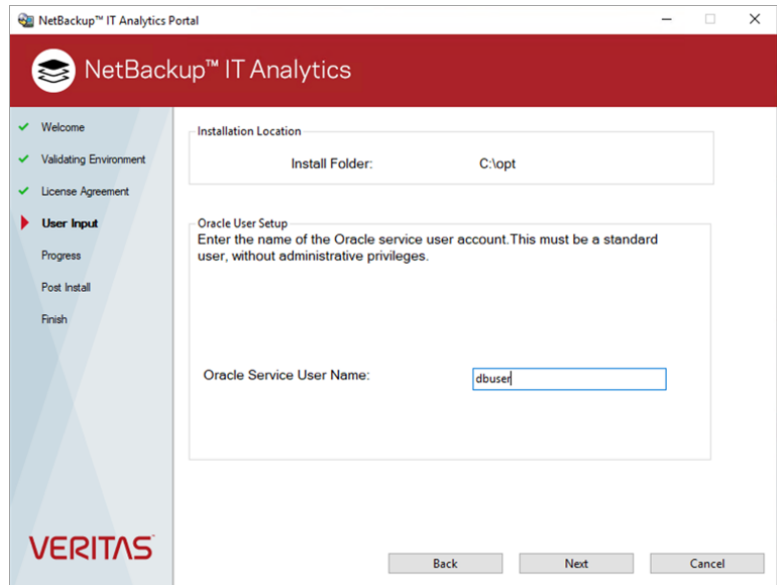


- 4 Review the install instructions on the **Welcome** screen of the installation wizard and click **Next** to begin the installation.

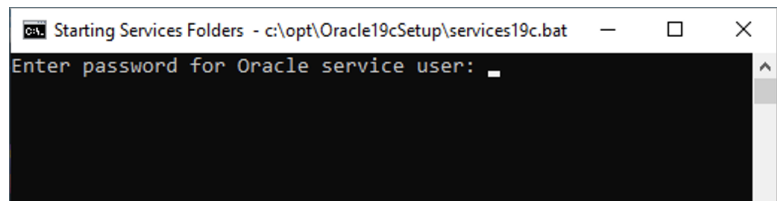


- 5 The wizard validates the environment for Windows version, Disk Space, Memory, and Oracle pre-checks. Click **Next** after the validation is successful.
- 6 Read and accept the end-user license agreement (EULA) and click **Next**.

- 7 Enter the name of a valid user account for the **Oracle Service User Name** and click **Next**.



- 8 The **Progress** screen displays the installation and validation status.
- 9 Enter the service user password on the command prompt window.



Note: If you enter the incorrect password too many times, the account can get locked. See [the section called “Account lockout”](#) on page 16.

- 10 On the **Post Install** screen, review the list of Oracle application binaries installed in the `C:\opt` folder and click **Next**.
- 11 On the **Finish** screen, a confirmatory message about the successful installation of NetBackup IT Analytics Oracle is displayed. Click **Finish** to exit the installation wizard.

At this point, the Oracle Application binaries have been installed on your server and Oracle services have been created.

This completes the installation of the NetBackup IT Analytics Oracle Application component. The next step is to install the NetBackup IT Analytics Portal Software components.

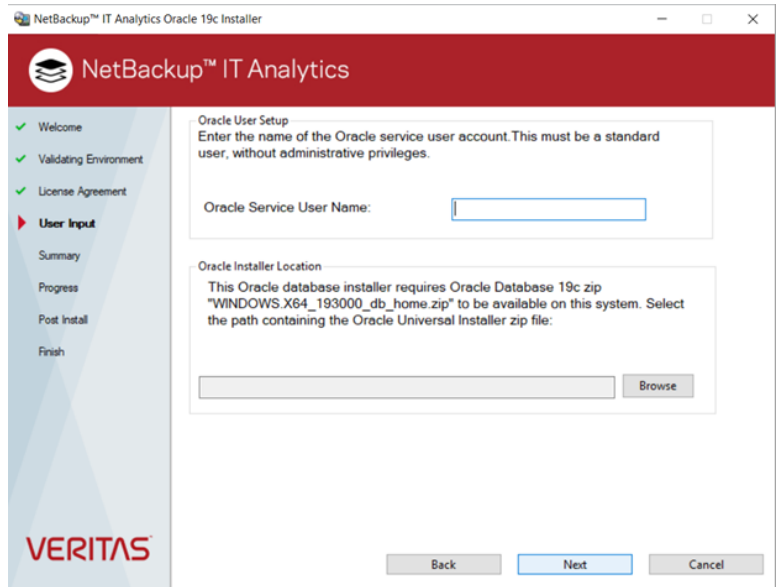
Install Oracle binaries for shared service edition

To install Oracle binaries for shared service edition, you must have a Standard or Enterprise Edition Oracle license. For the Enterprise Edition license, you must set the environment variable **ORACLE_LICENSE_OPTION** to **EE**. Also ensure that the Oracle database for 19c zip file `WINDOWS.X64_1930000_db_home.zip` that you have downloaded from Oracle Download center is copied to the Windows host.

To install Oracle binaries for shared service edition:

- 1** Login to the Windows host as an administrator. Oracle requires you to login with administrator privileges.
- 2** Download the `itanalytics_dbinstaller_shared-service_win.iso` to the Windows host.
- 3** Double-click the ISO file and run `Setup.exe`. The installation wizard is launched.
- 4** Review the instructions on the welcome screen and click **Next**.
The wizard validates the environment for Windows version, disk space, memory, and performs pre-check for Oracle.
- 5** Accept the End User License Agreement (EULA) and click **Next**.

- 6 For Oracle User Setup and installer location, enter the valid **Oracle Service User Name** and click **Browse** to assign the absolute path to Oracle universal Installer archives.



- 7 Enter the Oracle service user password on the command prompt.

Caution: If you exceed the maximum attempts for incorrect password on this prompt, your account can get locked.

- 8 Review the post install screen and click **Finish** once you see the confirmation message on the install wizard.

At this point, the Oracle Application binaries for shared service edition are installed on your server and Oracle services are created. This completes the installation of the NetBackup IT Analytics Oracle Application component. The next step is to install the NetBackup IT Analytics Portal software components.

Troubleshoot the Oracle installation

Because the Oracle installation relies on Oracle requirements and processes, you may encounter issues that require your intervention.

General troubleshooting

The Oracle installation process logs errors that can aid in troubleshooting. Locate the log file that coincides with the date and time of the error:

```
C:\Program  
Files\Oracle\Inventory\logs\installActions<YYYY-MM-DD_HH-MM>
```

Account lockout

Too many incorrect password entry attempts will lock out the Oracle Service User account. To unlock the account, take the following steps.

1. Enter `lusrmgr.msc` in the Windows PowerShell command prompt window to launch the Local Users and Groups Manager.
2. Open the **Users** folder and double-click the user that needs to be unlocked.
3. In the User Properties window, uncheck the Account is locked out item to re-enable the user account.

Note: An alternative method for unlocking an account can be accessed via the Windows Server Manager: **Server Manager > Tools > Computer Management > Local Users and Groups > Users**

Invalid Oracle Service User Account

When an invalid Oracle Service User Name is entered, the Oracle Universal Installer displays the following messages:

```
The password field is empty.  
CAUSE: The password should not be empty.  
ACTION: Provide a non-empty password.  
Please press Enter to exit...
```

These messages do not necessarily reflect the true issue. At this point, the password is not relevant. The process actually needs the Oracle Service User Name.

To recover from this error, take the following steps.

1. In the command prompt window, press **Enter**.
2. Return to the **Failed to Install Oracle** window and click **Previous**.
3. Enter a valid account name for the **Oracle Service User Name** and resume the installation.

Oracle universal installer fails

The most common reason for the Oracle Universal Installer to fail is due to an invalid Oracle Service User account.

See [the section called “Invalid Oracle Service User Account”](#) on page 16.

Other failures must be investigated by reviewing log messages, using the following steps.

1. In the **Failed to Install Oracle** installer window, click **Exit**.
2. Locate the error in the log file:

```
C:\Program  
Files\Oracle\Inventory\logs\installActions<YYYY-MM_HH-MM>
```

Note: If you abort the Oracle Universal Installer process by closing the command window, close the installer window and re-run the installer from the beginning.

Oracle already exists on the portal server

If you are installing Oracle on a server that at some point had NetBackup IT Analytics Oracle software installed, the installer will display an error dialog window.

Encountering previously installed software may occur under the following circumstances:

- You chose a server that has a version of the NetBackup IT Analytics Portal already installed. Determine the version of Oracle that is already installed and reference the NetBackup IT Analytics documentation for the steps to uninstall the database/Portal.
- You ran the Oracle installer more than once. In this case, it is likely that you do not want to proceed unless you have determined that it was not a successful installation. If you need to re-run this installer, refer to the following.

Unsupported Windows operating system

If you try to install Oracle on a version earlier than Windows Server 2016, you will get a warning message: **WARNING: The current OS is not supported.**

Exit the installation and choose a server with a supported Windows OS.

Task 4: Installing Portal application binaries (Windows)

In this procedure, you will install Portal Server software on your Windows Server.

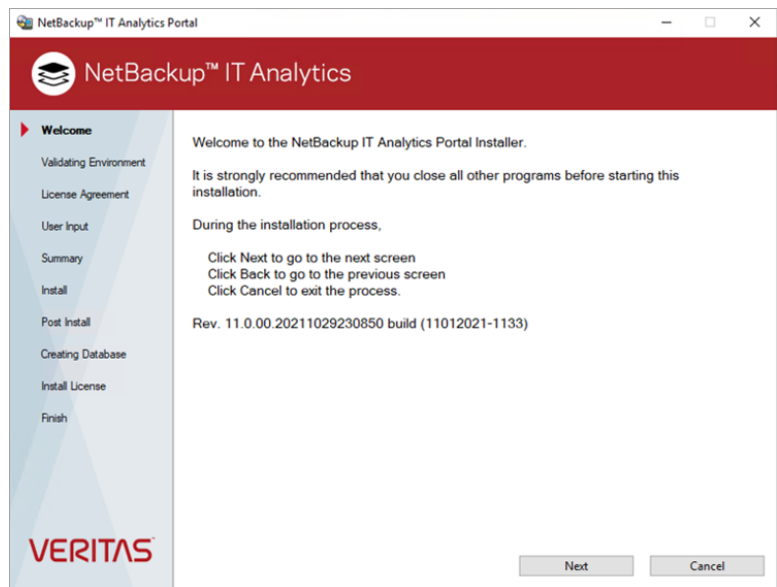
System: Web/Application Server

To install your Portal Server software

- 1 Log in to the Portal Server as a **Local Administrator**.

Note: Oracle requires that you are logged in as a **Local Administrator**. Logging in as a Domain Administrator is not sufficient for this installation.

- 2 Go to the downloads section under Support at www.veritas.com and click the relevant download link.
 - Once downloaded, the Portal Installation Wizard launches automatically. If it does not, use Windows Explorer to navigate to the executable and double-click the file: **Setup.exe**
 - The Portal Installation Wizard requires about a minute to start up. During this time, the following window is displayed:
Once the Portal Installation Wizard extracts the necessary startup files, the Portal Installation Wizard displays the launch screen.



3 Click **Next** to start the installation process.

The Portal Installation Wizard validates the system environment. Once the installer has validated successfully, click **Next**.

4 End User License Agreement (EULA) is displayed. If you agree to the terms of EULA, select **I accept the terms of the License Agreement** and click **Next**.

5 Provide the following details on the next form and click **Next**.

- Enter the hostname or IP address of the server on which the Oracle Application binaries are installed. The installer prompts for the IP Address of your Oracle database server. If Oracle is running on the Portal server, you can enter **localhost**.
- Enter the domain name for your environment (Example: *yourcompany.com*). The value entered here determines the URL you will use in your browser to access the portal. (For example: *itanalyticportal.yourcompany.com*)
- Select the drive letter on which you intend to create the Oracle database. The Portal Installation Wizard customizes the Database SQL Script based on the drive letter. Note the disk space requirement for this drive.

NetBackup™ IT Analytics Portal

NetBackup™ IT Analytics

✓ Welcome
✓ Validating Environment
✓ License Agreement
▶ **User Input**
Summary
Install
Post Install
Creating Database
Install License
Finish

IP Address
Enter Database server IP:

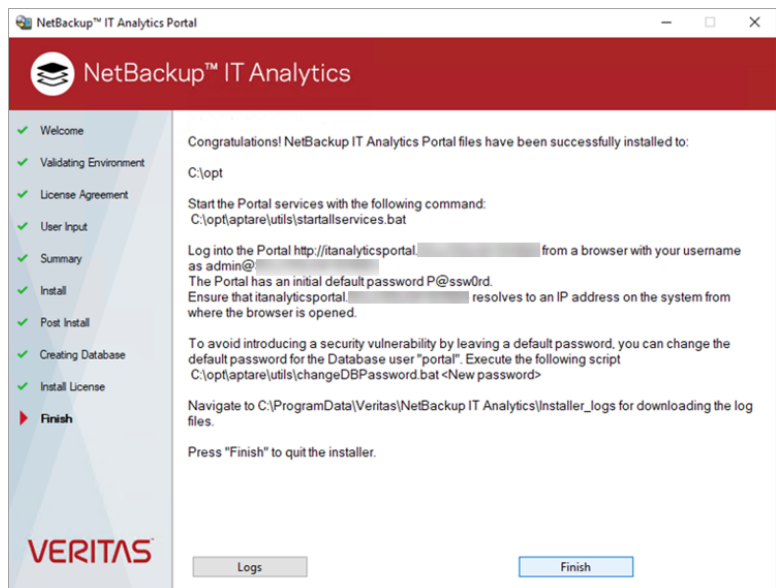
Domain Name
Enter a domain name for your network. The domain name you enter here will be used in the URL that connects you to the Portal server. For example, itanalyticportal.<DomainName>

Oracle Drive
Select a drive for creating the Oracle database. Make sure that the drive has 64,000 GB free space. Refer Portal sizing guide for recommended configuration
 Free Space: 349 GB

Back Next Cancel

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- 6 Review the installation summary.
The screen summarizes the product components that will be installed and describes the available and required disk space for the components before initiating the installation.
- 7 Click **Next** to begin the installation. The default location is `C:\opt`.
- 8 Review the **Post Install** details and click **Next**.
- 9 The installer creates the database. Click **Next** once the database creation is complete.
- 10 An evaluation license is installed. Click **Next** once the status displays **License has been installed successfully**.
- 11 On success installation of the NetBackup IT Analytics Portal, click **Finish** to exit the installation wizard.



Task 5: Request the license key file (Windows)

Refer to the *NetBackup IT Analytics Licensing Guide* for details.

Task 6: Log into the Portal (Windows)

Log into the NetBackup IT Analytics Portal (<http://itanalyticsportal.yourcompany.com>) with your username as <admin@yourcompany.com>. The Portal has an initial default password **P@ssw0rd**. You must change this password after your first login.

Note: The default password contains a zero, not an uppercase O.

Also verify whether the NetBackup IT Analytics Portal services have started as follows:

- 1 Login to the portal system as an administrator.
- 2 Click **Start > Settings > Control Panel** and open **Administrative Tools**.
- 3 Click **Services**.
- 4 Verify whether the following services are running:
 - Oracleservicescdb
 - OraclescdbTNSListener
 - APTARE Kafka Service
 - APTARE Zookeeper Service
 - APTARE Portal Tomcat
 - APTARE Agent Tomcat
 - APTARE Anomaly Service
 - APTARE Apache

Task 7: Install the license key file (Windows)

Refer to the *NetBackup IT Analytics Licensing Guide* for details.

Task 8: Performing a cold backup (Windows)

Prior to deploying the Portal for operational use, it is recommended that you perform a cold backup of the Oracle database. This offline, cold backup simply means that you'll physically copy or backup the files to another location. This cold backup will simplify the restore process, in the event of unanticipated data loss. With a cold backup, you simply have to restore the files and then import the most recent database export. In addition to this initial cold backup, you may consider performing

a cold backup periodically—for example, after a significant software upgrade—to re-capture the database schema. Refer to the System Administrator Guide.

Recommended database backup process

1. Cold Backup
2. Daily Exports of the database
3. In the event of data loss, restore the database and then import the most recent database export.

Supported third-party and open source products

When you install the portal and reporting database, you install a compilation of software, which includes open source and third-party software.

For a list of open source components and licenses, see the license.txt file on the portal server.

Table 1-1 Supported third-party and open source products

Software Product	Linux	Windows
Oracle 19c	New Installation and Upgrading to 11.1 <ul style="list-style-type: none"> ■ 19c 	New Installation and Upgrading to 11.1 <ul style="list-style-type: none"> ■ 19c
Java	Amazon Corretto 11.0.19.7.1 64-bit	Amazon Corretto 11.0.19.7.1 64-bit
vSphere Web Services SDK	5.5, 64-bit	5.5, 64-bit
Apache HTTP Web Server	<ul style="list-style-type: none"> ■ Apache 2.4.58 includes SafeLogic SSL for Linux environments. Note: Apache 2.4.58 is supported for NetBackup IT Analytics version 11.2.08 onwards. Any previous versions supports Apache 2.4.54. ■ Apache Portable Runtime (APR) - v1.7.2 	<ul style="list-style-type: none"> ■ Apache 2.4.58 includes SafeLogic SSL for Windows environments. Note: Apache 2.4.58 is supported for NetBackup IT Analytics version 11.2.08 onwards. Any previous versions supports Apache 2.4.54. ■ Apache Portable Runtime (APR) - v1.7.2
Apache Tomcat Java Servlet Engine		9.0.83
Kafka	3.2.0	3.2.0

If other versions of the above components are already running on the designated NetBackup IT Analytics system, or other components are utilizing resources (such as specific ports) typically used by NetBackup IT Analytics, the product usually can be reconfigured to work around these conflicts; however, this cannot be guaranteed.

*Refer to Support for updated binaries as they become available.

Uninstall the NetBackup IT Analytics Portal

This procedure uninstalls the application and removes the Oracle database, including all the data that resides on that database. If required, you can back up the database at a different location before the uninstallation. Files that you created after the product was installed are not deleted. Perform this procedure on your Portal Server.

To uninstall Portal server software

- 1 Shut down the Distributed Transaction Coordinator service if it is running.

```
> net stop msdtc
```

This Microsoft service can sometimes lock one of the Oracle files and prevent the uninstall from completing successfully.

- 2 From the **Control Panel**, open **Add and Remove Program > Programs and Features** and uninstall NetBackup IT Analytics.

The NetBackup IT Analytics uninstall wizard is invoked and it asks for confirmation to proceed with the uninstallation.

- 3 Click **Uninstall** and follow its subsequent prompts to complete the procedure.
- 4 From a Windows File Explorer window, remove the database and any other files created after the initial installation:

Delete the C:\oradata folder.

Delete the C:\opt folder.

- 5 Reboot the Windows Server.

This step is important to ensure that the deletions are complete.

The uninstaller may not delete the entire Portal directory structure. Sometimes new files that were created after the installation are retained along with their parent directories. If the Portal was upgraded from version 10.5 or older, you may find entries of Kafka and Zookeeper services on the services panel (default C:\Program Files\Aptare), even after the uninstallation of the Data Collector. You must manually delete the services and reboot the system.

Upgrade NetBackup IT Analytics Portal on Windows

This chapter includes the following topics:

- [Overview](#)
- [Upgrade path](#)
- [Before upgrading](#)
- [Upgrade NetBackup IT Analytics Portal](#)
- [Data Collector upgrades](#)
- [Troubleshooting - manual Data Collector upgrades](#)
- [Collector updates from the NetBackup IT Analytics Portal](#)
- [Upgrade methods to incorporate enterprise objects](#)

Overview

If you are upgrading NetBackup IT Analytics Portal to 11.1 and later, you must have Oracle 19c installed. See “[Task 3: Installing Oracle application binaries \(Windows\)](#)” on page 10. Having installed Oracle 19c, you only require to upgrade the Portal. See “[Upgrade NetBackup IT Analytics Portal](#)” on page 26.

While upgrading to version 11.1 or later for the first time:

- The upgrade also succeeds using evaluation license.

- The upgrade utility can accept more than one licenses during the upgrade.
- The upgrade utility compares the used capacity with the entitled capacity of the new license. If the entitled capacity is less than the used capacity, it displays a warning, but continues with the upgrade. However, you must comply with the Veritas licensing guidelines to access all the features of the NetBackup IT Analytics Portal.

For complete details about system requirements and upgrading, refer to the *Certified Configurations Guide*. Separate upgrade instructions are provided for Windows and Linux with the assumption that the Portal and database components are installed on the same server.

Upgrade path

The Portal must be running a minimum of version 10.6.00 to upgrade to NetBackup IT Analytics 11.1. For complete details about system requirements and upgrading, refer to the *NetBackup IT Analytics Certified Configurations Guide*. In addition, Oracle 19c is required for NetBackup IT Analytics 11.1.

Before upgrading

- Ensure that you have a valid system backup. For additional information refer to the *System Administrator Guide*. Prior to executing the upgrade utility, the recommendations are:
 - A cold backup of the Portal / Database server(s) file systems.
 - A backup of the file systems containing the Oracle database (typically **<drive>:\oradata\scdb** on Windows) is only valid if it was taken while Oracle was completely shut down.
 - An export of the database.
- If you have installed any patches on your present NetBackup IT Analytics version, check the Release Notes to verify that they are included in this release. If you are uncertain, check with the Veritas Support. In most cases, previously installed patches are included in this release.
- Close all instances of `baretail.exe`, as NetBackup IT Analytics copies a new version during the upgrade process.
- The Portal and Database components should be installed on the same server.
- In the Portal, verify that the Data Collectors are set for automatic updates. This setting triggers the automatic download of updated application logic to the Data Collectors in your enterprise. This download is required to ensure the Data

Collectors are running with the latest compatible version. Refer to the vendor-specific Data Collector Installation Guide for additional information about Data Collectors.

- Identify the Java Version on the Data Collector Server and ensure that a 64-bit server is used for the Data Collector Server.
- Portal upgrades automatically enable privileges for newly added reports and certain features/functions, for all Administrators. This does not impact previously configured privileges. The Super User can manually revoke any Administrator privileges that have been automatically enabled.
- Before upgrading to 10.6 or later for the first time, generate a new Veritas license with `.slf` extension having equal or more entitlement than the currently installed license. This license file will be required during the upgrade.
- If upgrading to version 11.1 in a Shared Service environment, an additional database privilege should be provided using the following command.

```
sqlplus / as sysdba  
alter session set container = scdb; or IT Analytics database Service  
name if not 'scdb'  
GRANT EXECUTE ON DBMS_CRYPTO TO PORTAL;
```

Note: Not providing the privilege on a limited access environment can cause upgrade failure.

- Ensure a minimum of 5 GB of space is available.

Upgrade NetBackup IT Analytics Portal

Download the NetBackup IT Analytics Portal upgrade utility installer for Windows and copy it to the portal server before you proceed with the next steps.

Upgrading a shared services environment

In a shared services environment, where the connect as sysdba privilege is not present, you must provide a CREATE SYNONYM privilege to the APTARE_RO user before upgrading. APTARE_RO is a read-only user for the Portal.

Note: Unless this privilege has been deliberately revoked, this step is mandatory for an upgrade. If this privilege is not granted, errors in the upgrade script will occur and functionality within the SQL Template Designer will be impacted.

1. Log in with root access.
2. Stop the portal and data receiver Tomcat services.
3. At the command line, execute the following commands:

```
sqlplus / as sysdba  
  
SQL > GRANT CREATE SYNONYM TO APTARE_RO;
```

In a shared services environment, where the connect as sysdba privilege is not present, you must provide a CREATE JOB and DBMS_SCHEDULER privilege to the PORTAL user before upgrading.

Note: Unless this privilege has been deliberately revoked, this step is mandatory for an upgrade. If this privilege is not granted, errors in the upgrade script will occur and functionality for Oracle jobs will be impacted.

1. Log in with root access.
2. Stop the portal and data receiver Tomcat services.
3. At the command line, execute the following commands:

```
sqlplus / as sysdba  
  
SQL > GRANT CREATE JOB TO PORTAL;  
  
SQL > GRANT EXECUTE ON DBMS_SCHEDULER TO PORTAL;
```

Revoking Privileges (Optional)

As a standard practice, during a NetBackup IT Analytics upgrade, Oracle-related code is leveraged and system-level objects (dba_, V\$, etc.) and users (sys, system) are accessed. This scenario is not optimal in a shared service environment where organizations prefer to maintain their own Oracle credentials. Starting with release 10.4, portal upgrades can be run with limited privileges for the PORTAL user. Specific SQL statements can be executed to revoke the additional privileges assigned prior to the 10.4 release.

Note: When privileges are revoked, the NetBackup IT Analytics upgrade process is prevented from calculating the space in the datafiles and canceling Oracle jobs which may interfere with upgrade. By revoking these privileges, the local administrator assumes this responsibility.

Complete these steps to revoke privileges from a PORTAL user.

1. Log in with admin access.
2. Stop the portal and data receiver Tomcat services.

At the command line, execute the following commands:

```
sqlplus / as sysdba
SQL >REVOKE SELECT ANY DICTIONARY FROM PORTAL;
SQL>REVOKE SELECT_CATALOG_ROLE FROM PORTAL;
SQL>REVOKE SELECT ON dba_free_space FROM PORTAL;
SQL>REVOKE SELECT ON dba_data_files FROM PORTAL;
SQL>REVOKE SELECT ON dba_temp_files FROM PORTAL;
```

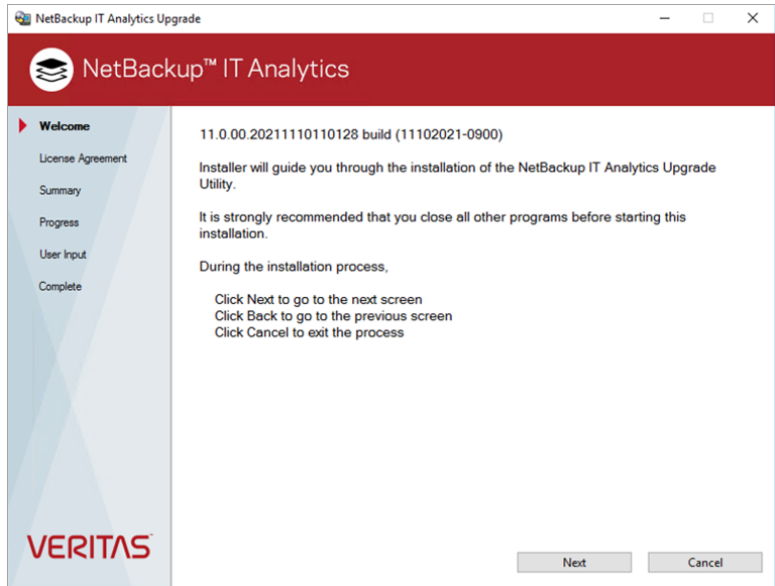
Run the upgrade utility installer (Windows)

Before you run the upgrade utility installer:

- Download the Upgrade Utility Installer ISO and copy it to the portal server.
- Perform the upgrade as an Administrator user who is a member of the ORA_DBA group.
- When upgrading to version 11.x.xx, the date format defaults to the Portal operating system locale, and ignores any previous configuration.

The following instructions assume you have the required upgrade installer file for your platform.

1. Double-click the ISO file to mount and run `Setup.exe`.



2. Follow the installer prompts to extract the upgrade files and utilities.
3. If you have chosen to Run Later in the earlier steps, complete the upgrade process by running the upgrade utility located at:

```
C:\opt\aptare\upgrade\upgrade.bat
```

Note: If you have the portal running with shared services and Oracle parameters such as service name and port are different than the default configuration, the upgrade utility installer will detect the parameters from the portal configuration file.

Troubleshooting Tips

On rare occasions after upgrading to version 11.1, NetBackup IT Analytics may display an access denied error while starting the portal Tomcat or agent Tomcat service.

To resolve this access error:

- 1 From the command prompt, run the script to delete the Portal and Tomcat services

```
C:\opt\aptare\utils\removeportalservices.bat
```

If the service delete fails, reboot the system and again try to delete the services.

- 2 Install the Portal services.

```
C:\opt\aptare\utils\setupPortalTomcatService.bat
```

```
C:\opt\aptare\utils\setupAgentTomcatService.bat
```

- 3 Start the Portal Tomcat and Agent Tomcat services from the Service Panel.

Running the upgrade utility

The following instructions assume that the Portal and Database components reside on the same server. You must be currently running version 10.5.00 or later to upgrade to NetBackup IT Analytics 11.1.

1. Ensure that all NetBackup IT Analytics application services are up and running. Next, as an Administrator user on Windows, run the following command and respond to the prompts accordingly:

```
C:\opt\aptare\upgrade\upgrade.bat
```

- While upgrading to 10.6 or later for the first time, the upgrade utility prompts for a new license file with `.slf` extension. You must have equal or more entitlement than the currently consumed license capacity. For information on license generation and installation, see *NetBackup IT Analytics Licensing Guide*.
- If there are errors during the upgrade, the following banner is displayed:

```
#####  
# WARNING      WARNING      WARNING      WARNING      WARNING #  
# Possible problems were encountered during the upgrade. #  
# Please check the log file  
C:\opt\aptare\upgrade\logs\upgrade.log#  
# for errors and contact Customer Support if necessary.#  
#####
```

2. If the upgrade process encountered any errors, save a copy of the log file for any correspondence with the Veritas Support. You can find the upgrade log file in the following location:

```
C:\opt\aptare\upgrade\logs\upgrade.log
```

If you have installed any patches on your present NetBackup IT Analytics version, check the latest Release Notes to verify that they are included in this release. If you are uncertain, please check with Veritas Support. In most cases, previously installed patches are included in the current release.

Note: If your upgrade fails because of an Apache version conflict, contact the Veritas Support for instructions and a link to download a new version.

Attribute merging during the Portal upgrade

Version 10 introduced several enhancements to attribute management.

- A new attribute type, a multi-object attribute, replaces the way that attributes functioned in previous releases. This multi-object attribute enables creation of a single attribute that will be available for all objects, such as hosts, arrays, and switches.
- Prior to Version 10, object-specific attributes were required. For example, if you wanted a Location attribute for both host and array objects, you needed to create a separate Location attribute for each object. Now, with multi-object attributes, a single attribute can be used for all objects (for example, arrays, hosts, LUNs and switches).
- System Attributes were introduced in Version 10. System attributes provide a set of popular attributes that you can populate with your own enterprise-specific values. These new system attributes are multi-object attributes with the following names: Application, Business_Unit, Data_Center, Department, Environment, Location, Organization, Owner, and Region. These system attributes cannot be deleted.
- The naming convention for attributes was also changed in Version 10. Attribute names must begin with an alpha character. Use only alpha, numeric, or underscore characters in the name. Spaces and special characters are not allowed. This may mean that you will need to modify attribute names after you upgrade so that you can modify and save the list of values.

Attribute management during the Portal upgrade

Because you may already have attributes in your database that have names that duplicate the system names introduced in Version 10, the upgrade process must apply logic to prevent duplicate attribute names. During the Portal upgrade, the following logic is used:

- In the top-level domain, if the upgrader finds an existing attribute that has a name that is the same as a new system attribute (for example, Location) it creates the system attribute and populates it with the list of values from the existing attribute.
- For multi-tenancy environments where there are multiple domains, if an attribute is found in both a parent and child domain, the child domain will not inherit the values but instead, the values of the attribute in the child domain will remain intact. See also, Attribute Inheritance Overrides.
- If multiple attributes with the same name are encountered in the same domain (for example, a host Location attribute and an array Location attribute), the values from all the attributes with the same name (for all objects) are merged into the system attribute.
- The upgrader will list the attributes with the list of values that will be merged into the new System Attributes. You can choose to let the upgrader merge the attributes or you can stop the upgrade and use the steps provided to rename existing attributes.
See [the section called “Steps to Rename Duplicate Attributes”](#) on page 33.
- Merging of values ensures that all objects that have been assigned the attribute will retain this attribute with its values and therefore, reports that use the attributes will continue to work as expected.

Example of a Merge of Attribute Values

Before the upgrade:

- Location attribute exists for Hosts, with a list of values: San Diego, New York, Seattle.
- Location attribute exists for Arrays, with a list of values: Paris, London, Singapore.

After the upgrade:

- Location system attribute has been created to replace the object-specific attributes. This system attribute will contain a merged list of values (LOV): San Diego, New York, Seattle, Paris, London, Singapore.
- This list of values applies to all objects.
- Once the upgrade is successful, you may want to modify the merged list of values via the Portal: Select **Admin > Advanced > Attributes**.

Steps to Rename Duplicate Attributes

1. Log in to the Portal server
2. At the command line:

```
su - aptare
```

3. At the command line, launch sqlplus:

```
sqlplus <username>/<pwd>@//localhost:1521/scdb
```

Example: **sqlplus portal/portal@//localhost:1521/scdb**

4. To rename an attribute, execute the following SQL statements, substituting <variables> with values listed in the upgrade messages:

```
UPDATE apt_attribute  
SET attribute_name = <attributeName>  
WHERE attribute_id = <AttributeID>;  
Commit;
```

Example: This example renames the Location attribute so that it is not merged with the system attribute named Location.

```
UPDATE apt_attribute  
SET attribute_name = 'Location1'  
WHERE attribute_id = 100001;  
Commit;
```

Best Practice for Attributes in Multi-Tenancy Environments

- Maintain attributes at the top-level domain so that the attributes are available to all client/child domains.
- During the Portal upgrade to Version 10.x.xx, newly introduced System Attributes will be added to the top-level domain.

Data Collector upgrades

For performance reasons, do not install Data Collectors on the same server as the NetBackup IT Analytics Portal. However, if you must have both on the same server, verify that the Portal and Data Collector software do not reside in the same directory.

Mandatory Prerequisites

- On Windows Data Collectors, close all DOS Command Console windows in any of the <APTARE_HOME> directories before upgrading.

- Do not use `downloadlib.[sh|bat]` to upgrade the binaries on the Data Collector. Initiate the Data Collector upgrade from the NetBackup IT Analytics Portal.

Troubleshooting - manual Data Collector upgrades

If the Data Collector fails after completing the previous requirements and prerequisites, perform the following:

On the Collector Server:

1. End all running NetBackup IT Analytics-related Java processes.
2. Start the APTARE Agent Service
 - If it starts and continues to run, proceed to the following section. See [“Collector updates from the NetBackup IT Analytics Portal”](#) on page 34.
3. If the APTARE Agent Service does not continue to run, verify no NetBackup IT Analytics-related Java processes are running. If required, end all running NetBackup IT Analytics-related Java processes.
 - Restart the Collector Server, if the Java processes cannot be killed manually. Prior to restarting the server, disable the automatic start of the APTARE Agent Service.
4. Rename `<APTARE_HOME>/java` to `java.old`.
5. Copy `<APTARE_HOME>/upgrade/staging/snapshot/java` to `<APTARE_HOME>/`
6. Enable the automatic start of APTARE Agent service, if you previously disabled the service.
7. Start the APTARE Agent Service, and proceed to the Portal.
See [“Collector updates from the NetBackup IT Analytics Portal”](#) on page 34.

Collector updates from the NetBackup IT Analytics Portal

1. Log in to the NetBackup IT Analytics portal, and navigate to **Admin>Data Collection>Collector Updates**.
2. Select the Data Collector that failed to upgrade.
3. Verify if either `aptare.jar` or Upgrade Manager failed to upgrade.
4. Click **Upgrade Both**, **Upgrade aptare.jar**, or **Update Upgrade Manager**, depending on what failed to upgrade. Allow up to an hour for completion, depending on the size of your system.

5. Contact Veritas Support for additional issues.

Upgrade methods to incorporate enterprise objects

During a Portal upgrade to version 10.x.xx, all Dynamic Template Designer Methods is modified to associate a method with an enterprise object (such as an array or host), rather than the method being associated with a NetBackup IT Analytics product (such as Capacity Manager).

The upgrader automatically makes the necessary changes, which may result in the following considerations:

- If the upgrader encounters a method that could apply to multiple enterprise objects (for example, a backup method that is relevant for both a Data Domain and a Job enterprise object), the upgrader makes a copy of the method with an Upgrade label append to the method name. This new version of the method has a populated enterprise object field so that your reports won't fail. Note that the WITH clause alias in this new version will still reference the old name, but this will not cause reports to fail. You can modify this to make the method accurate, however, this modification is not required.
- Once upgraded, some methods may have a null value for the enterprise object. For example, a method that was created for Virtualization Manager does not have a corresponding supported enterprise object (Data Domain, Host, Job, or Storage Array). If such a method is found by the upgrader and the method is in use by a Dynamic Template, the upgrader implicitly assumes the enterprise object for the template is relevant and populates the enterprise object field accordingly. However, if the method currently is not in use, the enterprise object field remains null.
- Upgraded methods that result in null enterprise object values can be identified by viewing the list of methods: Tools > Templates > Method Designer.
- To use a method in a Dynamic Template, the enterprise object field must be populated. Therefore, when you modify and save a method (Save/Save as), you will be prompted to select an enterprise object.

Oracle patches for the database server

This chapter includes the following topics:

- [Install Oracle 19c Windows January 2024 patch](#)

Install Oracle 19c Windows January 2024 patch

This section includes the following patches:

- **35962832 - Windows Jan 2024 Bundle Patch 19.22.0.0.240116.**
- **35926646 - Oracle JavaVM Component Release Update 19.22.0.0.240116.**
- **35949090 - UPDATE 19.0.0.0.0 DATABASE CLIENT JDK IN ORACLE HOME TO JDK8u401.**

A patch must be installed to ensure that the Oracle 19c upgrade on Windows contains all the latest security updates.

We include four files and the following are the steps to install and verify the patches which needs to be executed in the order they are specified.

1. Download the patch files and follow the pre-install setup.
2. Upgrade OPatch.
3. Install the patches.
4. Validating the database and OJVM patch.
5. Verify the JDK version updates.

Pre-install setup

- 1 Make a note of the latest Oracle OJVM patch installed from the **System Health Check** report in the section Oracle Patch History.

Note: If you have applied any of the OJVM patches before then you will have to roll back the previous OJVM patch. For example, the last applied OJVM patch was *OJVM RELEASE UPDATE: 19.21.0.0.231017 (35648110)* then it needs to be rolled back and the instruction to rollback is provided later under section **Installing the Oracle patches step -7**. If no prior OJVM patch found or if it is not *35648110* patch, then no rollback is needed. To find out which OJVM patch you have installed in your environment check the **System Health Check** report to see which was the last OJVM patch and rollback that patch.

- 2 Log in to the virtual machine or Server where NetBackup IT Analytics is installed.
- 3 Download the following files from the product download area of the website and save to C:\temp folder.
 - p6880880_190000_MSWIN-x86-64.zip
 - p35962832_190000_MSWIN-x86-64.zip (Database Bundle Patch)
 - p35926646_190000_MSWIN-x86-64.zip (OJVM Patch)
 - p35949090_190000_MSWIN-x86-64.zip (JDK Bundle Patch)
- 4 Access the command prompt as an **Administrator**.
- 5 Verify %ORACLE_HOME%\perl\bin is displayed in your **PATH** setting.

Note: If not displayed in your **PATH** setting, enter the following:

```
set PATH=%ORACLE_HOME%\perl\bin;%PATH%
```

- 6 Set the Perl library path to empty.

```
set perl5lib=
```

OPatch installation

- 1 Change directory to the Oracle home directory.
- 2 Execute command `cd C:\opt\oracle.`
- 3 Rename the existing OPatch directory using the following command.

```
rename Opatch Opatch_old
```

4 Unzip the file **p6880880_190000_MSWIN-x86-64.zip** in C:\opt\oracle.

5 Execute the following command to verify the opatch version.

```
C:\opt\oracle\OPatch>opatch version.
```

```
OPatch Version: 12.2.0.1.41
```

Note: OPatch succeeded message is displayed.

Installing the patches

1 Shut down NetBackup IT Analytics services by executing

```
C:\opt\aptare\utils\stopallservices.bat
```

Note: Verify that all the NetBackup IT Analytics services are stopped by checking in services. If services are still running, the patch installation will not be successful and will cause issues.

2 Explicitly stop the **Distributed Transaction Coordinator** service (which is not an Oracle service) if it is running using the following command.

```
net stop msdtc.
```

3 Unzip **p35962832_190000_MSWIN-x86-64.zip** at C:\opt\oracle.

4 Unzip **p35926646_190000_MSWIN-x86-64.zip** at C:\opt\oracle.

5 Unzip **p35949090_190000_MSWIN-x86-64.zip** at C:\opt\oracle.

6 Set PATH using the following command.

```
set PATH=%ORACLE_HOME%\opatch;%PATH%
```

7 If the last OJVM patch, for example, was *19.21.0.0.231017 (35648110)*, then rollback by executing the

```
opatch rollback -id 35648110
```

command and follow the steps to rollback the patch other wise proceed to step 8.

8 Navigate to the database bundle patch folder using the following command:

```
cd C:\opt\oracle\35962832
```

9 Check for any OPatch conflicts using the following command for the Database Bundle patch.

```
opatch prereq CheckConflictAgainstOHWithDetail -ph ./
```

- 10** If no conflict is detected, execute the following command from the folder

```
C:\opt\oracle\35962832.
```

```
C:\opt\oracle\35962832\opatch apply
```

- 11** Follow the prompts to apply the database bundle patch.

Note: After unzipping the patch on the server, the readme file is located at:

```
C:\opt\oracle\35962832
```

- 12** Navigate to the OJVM patch folder using the following command:

```
cd C:\opt\oracle\35926646
```

- 13** Verify any OPatch conflicts for the OJVM patch using the following command:

```
opatch prereq CheckConflictAgainstOHWithDetail -ph ./
```

- 14** If no conflict is detected, from the folder `C:\opt\oracle\35926646`, execute the following command:

```
C:\opt\oracle\35926646\opatch apply
```

- 15** Follow the prompts to apply the OJVM patch.

Note: After unzipping the patch on the server, the readme file is located at:

```
C:\opt\oracle\35949090
```

- 16** Navigate to the JDK patch folder using the following command

```
cd C:\opt\oracle\35949090.
```

- 17** Verify the OPatch conflicts using the following command for the JDK bundle patch.

```
opatch prereq CheckConflictAgainstOHWithDetail -ph ./
```

- 18** If no conflicts are detected, execute the following command from the folder

```
C:\opt\oracle\35949090.
```

```
C:\opt\oracle\35949090\opatch apply
```

- 19** Follow the prompts to apply the JDK Bundle patch.

Note: After unzipping the patch on the server, the readme file is located at:

```
C:\opt\oracle\35949090
```

- 20** Verify OPatch succeeded using the following commands which will show the OPatch application results of database, OJVM and JDK patches:

```
C:\opt\oracle\OPatch\opatch lsinventory -detail
```

- 21** Start all the NetBackup IT Analytics services, including Oracle, by executing the following.

```
C:\opt\aptare\utils\startallservices.bat
```

- 22** If the **Distributed Transaction Coordinator** service, which is not an Oracle service, is not running, restart using the following command.

```
net start msdtc
```

-
- 23** **Note:** This step requires the database to be running including the pluggable database.
-

Connect to SQL Plus using the following command:

```
sqlplus / as sysdba

alter pluggable database all open;

quit
```

- 24** Execute the following command to complete the post-install SQL deployment for the patch being installed. This data patch command applies the patch to the pluggable database.

```
C:\opt\Oracle\Opatch\datapatch -verbose
```

- 25** Check the following log files in `C:\opt\oracle\cfgtoollogs\opatch` for errors. The log file name includes the current timestamp.

For example: `opatch2024-02-17_00-37-27AM_1.log`.

Validating the database and OJVM Patches

- 1** Connect to SQL Plus using the following command.

```
sqlplus / as sysdba
```

- 2** Query to check registry for patch history.

```
SQL>select * from sys.registry$history;
```

- 3** Query to check registry for installed patch.

```
SQL>select * from sys.registry$sqlpatch ;
```

4 Report output with patch details:

```
SQL> set serveroutput on
```

```
SQL> exec dbms_qopatch.get_sqlpatch_status;
```

```
Patch Id : 34411846
```

```
Action : APPLY
```

```
Action Time : 16-NOV-2022 14:08:03
```

```
Description : OJVM RELEASE UPDATE: 19.17.0.0.221018 (34411846)
```

```
Logfile :
```

```
C:\opt\cfgtoollogs\sqlpatch\34411846\24997534\34411846_  
apply_SCDBCNTN_CDBROOT_2022Nov16_14_02_11.log
```

```
Status : SUCCESS
```

```
Patch Id : 34468114
```

```
Action : APPLY
```

```
Action Time : 16-NOV-2022 14:08:03
```

```
Description : Windows Database Bundle Patch : 19.17.0.0.221018 (34468114)
```

```
Logfile :
```

```
C:\opt\cfgtoollogs\sqlpatch\34468114\24926261\34468114_  
apply_SCDBCNTN_CDBROOT_2022Nov16_14_02_11.log
```

```
Status : SUCCESS
```

```
Patch Id : 34411846
```

```
Action : ROLLBACK
```

```
Action Time : 28-MAR-2023 18:15:08
```

```
Description : OJVM RELEASE UPDATE: 19.17.0.0.221018 (34411846)
```

```
Logfile :
```

```
C:\opt\cfgtoollogs\sqlpatch\34411846\24997534\34411846_  
rollback_SCDBCNTN_CDBROOT_2023Mar28_18_13_58.log
```

```
Status : SUCCESS
```

```
Patch Id : 34786990
```

```
Action : APPLY
```

```
Action Time : 28-MAR-2023 18:15:09
```

```
Description : OJVM RELEASE UPDATE: 19.18.0.0.230117 (34786990)
```

```
Logfile :
```

```
C:\opt\cfgtoollogs\sqlpatch\34786990\25141362\34786990_  
apply_SCDBCNTN_CDBROOT_2023Mar28_18_13_58.log
```

```
Status : SUCCESS
```

```
Patch Id : 34750795
```

Action : APPLY
Action Time : 28-MAR-2023 18:15:09
Description : Windows Database Bundle Patch : 19.18.0.0.230117 (34750795)
Logfile :
C:\opt\cfgtoollogs\sqlpatch\34750795\25040762\34750795_
apply_SCDBCNTN_CDBROOT_2023Mar28_18_13_58.log
Status : SUCCESS

Patch Id : **34786990**
Action : ROLLBACK
Action Time : 18-OCT-2023 20:58:50
Description : OJVM RELEASE UPDATE: 19.18.0.0.230117 (34786990)
Logfile :
C:\opt\cfgtoollogs\sqlpatch\34786990\25141362\34786990_
rollback_SCDBCNTN_CDBROOT_2023Oct18_20_57_20.log
Status : SUCCESS

Patch Id : **35354406**
Action : APPLY
Action Time : 18-OCT-2023 20:58:52
Description : OJVM RELEASE UPDATE: 19.20.0.0.230718 (35354406)
Logfile :
C:\opt\cfgtoollogs\sqlpatch\35354406\25338973\35354406_
apply_SCDBCNTN_CDBROOT_2023Oct18_20_57_20.log
Status : SUCCESS

Patch Id : **35348034**
Action : APPLY
Action Time : 18-OCT-2023 20:58:52
Description : Windows Database Bundle Patch : 19.20.0.0.230718 (35348034)
Logfile :
C:\opt\cfgtoollogs\sqlpatch\35348034\25299325\35348034_
apply_SCDBCNTN_CDBROOT_2023Oct18_20_57_20.log
Status : SUCCESS

Patch Id : **35354406**
Action : ROLLBACK
Action Time : 06-DEC-2023 17:55:22
Description : OJVM RELEASE UPDATE: 19.20.0.0.230718 (35354406)
Logfile :
C:\opt\cfgtoollogs\sqlpatch\35354406\25338973\35354406_
rollback_SCDBCNTN_CDBROOT_2023Dec06_17_54_23.log
Status : SUCCESS

Patch Id : **35681552**
Action : APPLY
Action Time : 06-DEC-2023 17:55:23
Description : Windows Database Bundle Patch : 19.21.0.0.231017 (35681552)
Logfile :
C:\opt\cfgtoollogs\sqlpatch\35681552\25362844\35681552_
apply_SCDBCNTN_CDBROOT_2023Dec06_17_54_23.log
Status : SUCCESS

Patch Id : **35648110**
Action : APPLY
Action Time : 06-DEC-2023 18:52:28
Description : OJVM RELEASE UPDATE: 19.21.0.0.231017 (35648110)
Logfile :
C:\opt\cfgtoollogs\sqlpatch\35648110\25431514\35648110_
apply_SCDBCNTN_CDBROOT_2023Dec06_18_52_25.log
Status : SUCCESS

Patch Id : **35648110**
Action : ROLLBACK
Action Time : 17-FEB-2024 00:47:47
Description : OJVM RELEASE UPDATE: 19.21.0.0.231017 (35648110)
Logfile :
C:\opt\cfgtoollogs\sqlpatch\35648110\25431514\35648110_
rollback_SCDBCNTN_CDBROOT_2024Feb17_00_46_45.log
Status : SUCCESS

Patch Id : **35926646**
Action : APPLY
Action Time : 17-FEB-2024 00:47:48
Description : OJVM RELEASE UPDATE: 19.22.0.0.240116 (35926646)
Logfile :
C:\opt\cfgtoollogs\sqlpatch\35926646\25549578\35926646_
apply_SCDBCNTN_CDBROOT_2024Feb17_00_46_45.log
Status : SUCCESS

Patch Id : **35962832**
Action : APPLY
Action Time : 17-FEB-2024 00:47:48
Description : Windows Database Bundle Patch : 19.22.0.0.240116 (35962832)
Logfile :
C:\opt\cfgtoollogs\sqlpatch\35962832\25463642\35962832_

```
apply_SCDBCNTR_CDBROOT_2024Feb17_00_46_45.log  
Status : SUCCESS
```

```
PL/SQL procedure successfully completed.
```

Note: If any previous patches are applied, those patch id will be displayed here.

5 Exit from SQL prompt:

```
SQL>exit
```

Validating the JDK version updates

1 C:\opt\oracle\jdk\bin\java -version

```
java version "1.8.0_401"  
Java(TM) SE Runtime Environment (build 1.8.0_401-b10)  
Java HotSpot(TM) 64-Bit Server  
VM (build 25.401-b10, mixed mode)
```

2 C:\opt\oracle\Opatch\jre\bin\java -version

```
java version "1.8.0_401"  
Java(TM) SE Runtime Environment (build 1.8.0_401-b10)  
Java HotSpot(TM) 64-Bit Server  
VM (build 25.401-b10, mixed mode)
```

Upgrade and migrate to a new server

This chapter includes the following topics:

- [Upgrade and migrate to a new Windows server](#)

Upgrade and migrate to a new Windows server

The Portal must be running a minimum of NetBackup IT Analytics version 10.6 to upgrade to NetBackup IT Analytics 11.1.

If you migrate a portal from one machine to another, apart from copying over the database, you also need to copy the `c:\opt\aptare\dataarcvrconf\aptare.ks` and `c:\opt\aptare\dataarcvrconf\aptare_external_password.properties` files, and ensure the file permissions allow writing by the 'tomcat' user. If these files are not copied to the new machine, you will not be able to edit existing collector policies and data collection will stop working.

Install the latest release of NetBackup IT Analytics on the new server

1. Download the latest release and installation instructions from the www.veritas.com.
2. Perform a fresh install of the database and portal on the new server.
See ["Introduction"](#) on page 7.
3. The NetBackup IT Analytics Portal will be installed with evaluation license valid for 60 days. Ensure you request a new license with appropriate entitlement. Refer the *NetBackup IT Analytics Licensing Guide* for more information.
See ["Task 5: Request the license key file \(Windows\)"](#) on page 20.

4. Install the new license, once you receive it.

See “[Task 7: Install the license key file \(Windows\)](#)” on page 21.

Perform an export of the database on the existing server

The database user **Aptare** must have access to the export files stored in the directory:

```
c:\opt\oracle\database\tools
```

Verify that Oracle user has read and execute privileges on these files before starting the database export.

1. Log into the Windows database server.
2. Ensure Oracle TNS Listener and Oracle services are running.
3. At the command prompt execute the script:

```
c:\opt\oracle\database\tools\expdp_database_template.bat
```

4. After successful completion, the export file `aptare_scdb.exp` is saved on the Windows database server in the directory:

```
C:\opt\oracle\logs
```

5. Copy the `c:\opt\dataarcvrconf\aptare.ks` file to a temporary location.
6. From the temporary location, copy the `aptare.ks` file to `c:\opt\dataarcvrconf\` directory for the target system.

Stop Portal and agent services on the new server

On Windows (as an admin):

```
Execute \opt\aptare\utils\stopportal.bat  
Execute \opt\aptare\utils\stopagent.bat
```

Drop and re-create the existing portal user on the new server

On Windows (as member of ORA_DBA group):

- `sqlplus / as sysdba`
- `drop user portal cascade;`
[@/opt/aptare/database/ora_scripts/create_portal_user.plb](#);

Import the database onto the new server

Follow the instructions for your platform in the Importing the Oracle Database section in the *System Administrator Guide*.

Start Portal and agent services on the new server

On Windows (as an admin):

```
Execute \opt\aptare\utils\startportal.bat  
Execute \opt\aptare\utils\startagent.bat
```

Download, install, and execute to upgrade the database schema

If you are importing an old version database to 11.1 for your new NetBackup IT Analytics 11.1 portal, you can follow below instructions

1. Download the upgrade installer and documentation from the www.veritas.com.
2. Run the upgrade installer.
See [“Run the upgrade utility installer \(Windows\)”](#) on page 28.
This installs the upgrade executable, but does not execute it.
3. In the last step of upgrader, select **Run Later** option to continue.
4. Open a command prompt and go to `C:\opt\aptare\upgrade`.
5. Run `db-upgrade.bat` and follow the instructions to upgrade the database.
6. After completion of `db-upgrade.bat`, you can login to portal with your admin credentials and try installing the new license.
7. Login again and access NetBackup IT Analytics portal.
8. Verify that all NetBackup IT Analytics application services are up and running.
9. As user **root**, run the following relevant command and respond to the prompts accordingly:

- On Windows:

```
C:\opt\aptare\upgrade\upgrade.bat
```

You will receive warnings that your current version is already up to date, proceed.

Once the script has completed, review the log file indicated to check for any errors

Testing

If desired, you can use the local host file method of IP address resolution to test the functionality of the new portal prior to any DNS cut-over from the existing server.

Update Data Collector binaries (if necessary)

Do not install on the same machine as the new portal/database server.

1. Download the Data Collector installer and documentation from www.veritas.com.
2. Follow the instructions in the documentation for your Data Collector to uninstall.
3. Re-install the Data Collector to the latest version, giving the correct URL for the new server.