CISCO

Installing Cisco Process Orchestrator

You can install three different components of Cisco Process Orchestrator:

- Client-Installs only the components necessary to launch the Cisco Process Orchestrator Console and use it to connect to an automation server located on another computer.
- Server-Installs the automation server and all client components
- Web Console—Installs only the components necessary to provide access to the product's Web Console

Note: Review the system requirements and prerequisites before beginning the installation process (see Planning for the Installation, page 1).

Installing Using Silent Install

You can automate the installation of Cisco Process Orchestrator by running the server batch file after you enter the required details in the server response file (Cisco Process Orchestrator silent install configuration file).

Use the following steps to verify or enter the appropriate details in the server response file.

Note: Don't modify the values to the left of the equal sign.

In the **Destination Folder** section, verify the default file path or enter the appropriate file path for the install directory.
 For example:

INSTALLDIR=C:\Program Files\Cisco\Process Orchestrator\

Note: Don't enter quotes for long file path names.

- 2. In the **Setup Type** section, verify or enter the application to be installed, separated by commas. To install:
 - a. Client enter ConsoleFeature
 - b. Server enter ServerFeature
 - c. Web Console enter WebConsoleFeature

For example:

ADDLOCAL=ConsoleFeature, ServerFeature, WebConsoleFeature

Note: The values to be entered are case sensitive and you must install Client along with the Server.

- 3. In the Server Install Options section:
 - a. Under Server Number, specify the Server Install Option:
 - For new installation, enter: 1
 - To add server to HA environment, enter: 2

For example:

SERVER NUMBER=1

Note: You must use this section when ServerFeature is installed.

b. If this is a new installation, enter a unique name for the Cisco Process Orchestrator server environment or the default name is **Production**. For example:

HA ENVIRONMENT NAME=PRODUCTION

- 4. In the Database Information section:
 - a. Choose the Database Type:
 - For Microsoft SQL Server, enter: 1
 - For Oracle Database Server, enter: 2
 - For MariaDB Server, enter: 3

For example:

DATABASETYPE=1

b. If this is an Oracle RAC Install, enter: 1, otherwise leave blank.

For example:

RAC_CHECKBOX=

Note: You must use this section when ServerFeature is installed and only if this is a new installation (SERVER_NUMBER is set to 1).

Updating MSSQL Details

Note: You must use this section when ServerFeature is installed and only if this is a new installation (SERVER_NUMBER is set to 1).

Note: You must use this section when Database Type is Microsoft SQL Server (DATABASETYPE is set to 1).

- 1. Under the Processes Database section:
 - a. Enter the Server Name. For example:

IS SQLSERVER SERVER=<server>

b. In the **Processes Database Name Field**, enter a unique name or the default name is **OrchestratorProcess**. For example:

IS_SQLSERVER_DATABASE=OrchestratorProcess

c. If the above database is an existing database, enter: 1, otherwise leave blank. For example:

TDBEXIST=1

- d. In the **Database** creation credentials:
- For Windows Authentication of the current user, enter: 0
- For Server Authentication using specific credentials, enter: 1

For example:

IS_SQLSERVER_AUTHENTICATION2=0

e. If using Server Authentication using specific credentials, enter **Username** and **Password**, otherwise leave blank. For example:

```
IS_SQLSERVER_USERNAME=<username>
IS_SQLSERVER_PASSWORD=password>
```

2. Under the Processes Database Storage section:

Note: You must use this section when Processes Database is new (TDBEXIST is blank).

a. Verify the default data path (.mdf) and File Size (in MB) (Minimum and Default value is 13) or enter the alternate information in the appropriate fields.

For example:

ADMDATASIZE=13

b. Under **Transaction Log**, verify the default log path (.**Idf**) and file size (in **MB**) (Minimum and default value is **7**) or enter the alternate information in the appropriate fields.

For example:

```
ADMLOGPATH=C:\Program Files\Microsoft SQL Server\MSSQL11.MSSQLSERVER\MSSQL\DATA\OrchestratorProcess_log.ldf
```

ADMLOGSIZE=7

- c. Under Recovery Model, enter the Recovery Model Type:
- To set to Full, enter: FULL
- To set to Simple, enter: SIMPLE

For example:

RECOVERY MODEL=FULL

Note: The value is Case Sensitive (Default is FULL).

3. Under the Processes Database Access Account section:

Note: You must use this section when Processes Database is new or existing (TDBEXIST is set to 1 or is blank).

- a. Specify the credentials for the server to access the database.
- For Windows Authentication, enter: 0
- For SQL Authentication (Mixed mode), enter: 1

For example:

IS_SQLSERVER_AUTHENTICATION5=0

b. Enter the Username and Password. For example:

```
TIAACCESSACCOUNTNAME=<username>
TIAACCESSACCOUNTPASSWORD=<password>
```

c. If using Windows Authentication, enter the Domain Name, otherwise leave blank. For example:

TIADOMAINNAME=<domain>

- 4. Under the Reporting Database section:
 - a. Enter the Server Name. For example:

```
IS SQLSERVER SERVER1=<server>
```

b. In the Reporting Database Name Field, enter a unique name or the default name is OrchestratorReporting. For example:

```
IS SQLSERVER DATABASE1=OrchestratorReporting
```

c. If the above database is an existing database, enter: 1, otherwise leave blank. For example:

TDBEXIST1=1

- d. In the **Database** creation credentials:
- For Windows Authentication of the current user, enter: 0
- For Server Authentication using specific credentials, enter: 1

For example:

```
IS_SQLSERVER_AUTHENTICATION3=0
```

e. If using Server Authentication using specific credentials, enter **Username** and **Password**, otherwise leave blank. For example:

```
IS_SQLSERVER_USERNAME1=<username>
IS SQLSERVER PASSWORD1=<password>
```

5. Under the Reporting Database Storage section:

Note: You must use this section when Reporting Database is new (TDBEXIST1 is blank).

a. Verify the default data path (.mdf) and file size (in MB) (Minimum and Default value is 100) or enter the alternate information in the appropriate fields. For example:

ADMDATASIZE1=100

b. Under **Transaction Log**, verify the default log path (.ldf) and file size (in MB) (Minimum and default value is 20) or enter the alternate information in the appropriate fields. For example:

ADMLOGSIZE1=20

- c. Under Recovery Model, enter the Recovery Model type:
- To set to Full, enter: FULL
- To set to Simple, enter: SIMPLE

For example:

```
RECOVERY_MODEL1=FULL
```

Note: The value is Case Sensitive (Default is FULL).

6. Under the Reporting Database Access Account section:

Note: You must use this section when Reporting Database is new or existing (TDBEXIST1 is set to 1 or is blank).

- a. Specify the credentials for the server to access the database:
- For Windows Authentication, enter: 0
- For SQL Authentication (Mixed mode), enter: 1

For example:

IS SQLSERVER AUTHENTICATION6=0

b. Enter the **Username** and **Password**. For example:

TIAACCESSACCOUNTNAME1=<username>
TIAACCESSACCOUNTPASSWORD1=password>

c. For Windows Authentication, enter the Domain Name, otherwise leave blank. For example:

TIADOMAINNAME1=<domain>

Updating Oracle NON-RAC Mode Details

This section provides Oracle NON-RAC mode details to be entered in the Cisco Process Orchestrator silent install configuration file.

Note: You must use this section when ServerFeature is installed and only if this is a new installation (SERVER_NUMBER is set to 1).

Note: You must use this section only when Database Type is Oracle Server (DATABASETYPE is set to 2).

1. Under the Processes Database section:

Note: You must use this section only if this is NOT an Oracle RAC install (RAC_CHECKBOX is blank).

a. Enter the Database Server. For example:

IS_SQLSERVER_SERVER_ORA=<server>:<port number>/<global database name>

b. Enter the **Oracle Service Identifier** (SID). For example:

ORACLE_SID=<orcl>

c. Enter the Account Name and Password to create database. For example:

```
IS_SQLSERVER_USERNAME_ORA=<username>
IS_SQLSERVER_PASSWORD_ORA=cpassword>
```

Note: If the database is preexisting, provide the db schema and password else provide a system account or account with dba privileges to create a new database.

- 2. Under the Processes Database Access Account section:
 - a. Specify the User/Schema and Password for the server to access the database. (Default is OrchestratorProcess). For example:

TIAACCESSACCOUNTNAME_ORA=OrchestratorProcess
TIAACCESSACCOUNTPASSWORD ORA=cpassword>

b. If the above user/schema already exists, enter: TRUE, otherwise leave blank. For example:

TDBEXIST ORA=<TRUE>

Note: The value is Case Sensitive.

3. Under the Oracle Processes Tablespace Datafiles section:

Note: You must use this section only when Processes Database is new (TDBEXIST_ORA is blank).

- a. Enter the **Database Tablespace** file full path (.dbf).
- If Oracle is local to your machine, this should be the location of your **oradata\orcl** folder. For example:

c:\app\(user)\oradata\orcl\OrchestratorProcessData.dbf

If your Oracle Server is remote, enter the Name of the file. For example:

OrchestratorProcessData.dbf

For example:

ADMDATAPATH ORA=<OrchestratorProcessData.dbf>

b. Enter the Database Tablespace Size (in MB). (Minimum value is 20 and Default is 500). For example:

ADMDATASIZE ORA=500

- c. Enter the Temporary Tablespace file full path (.dbf).
- If Oracle is local to your machine, this should be the location of your **oradata\orcl** folder. For example:

c:\app\(user)\oradata\orcl\OrchestratorProcessTemp.dbf

If your Oracle Server is remote, enter the Name of the file. For example:

OrchestratorProcessTemp.dbf

For example:

ADMLOGPATH_ORA=<OrchestratorProcessTemp.dbf>

d. Enter the **Temporary Tablespace Size** (in **MB**). (Minimum value is **10** and Default is **250**). For example:

ADMLOGSIZE ORA=250

4. Under the Reporting Database section:

Note: You must use this section only if this is NOT an Oracle RAC install (RAC_CHECKBOX is blank).

a. Enter the Database Server. For example:

IS_SQLSERVER_SERVER1_ORA=<server>:<port number>/<global database name>

b. Enter the **Oracle Service Identifier** (SID). For example:

ORACLE_SID1=<orcl>

c. Enter the Account Name and Password to create database. For example:

```
IS_SQLSERVER_USERNAME10=<username>
IS SQLSERVER PASSWORD10=<password>
```

Note: If the database is preexisting, provide the db schema and password else provide a system account or account with dba privileges to create a new database

- 5. Under the Reporting Database Access Account section:
 - a. Specify the User/Schema and Password for the server to access the database. (Default is OrchestratorReporting). For example:

TIAACCESSACCOUNTNAME1_ORA=OrchestratorReporting TIAACCESSACCOUNTPASSWORD1 ORA=rassword>

b. If the above user/schema already exists, enter: TRUE, otherwise leave blank. For example:

TDBEXIST1 ORA=<TRUE>

Note: The value is Case Sensitive.

6. Under the Oracle Reporting Tablespace Datafiles section:

Note: You must use this section only when Reporting Database is new (TDBEXIST1_ORA is blank).

- a. Enter the Database Tablespace file full path (.dbf).
- If Oracle is local to your machine, this should be the location of your oradata\orcl folder. For example:

c:\app\(user)\oradata\orcl\OrchestratorReportingData.dbf

- If your Oracle Server is remote, enter the name of the file. For example:

OrchestratorReportingData.dbf

For example:

ADMDATAPATH1_ORA=<OrchestratorReportingData.dbf>

b. Enter the Database Tablespace Size (in MB). (Minimum value is 100 and Default is 500). For example:

ADMDATASIZE1 ORA=500

- c. Enter the **Temporary Tablespace** file full path (.dbf).
- If Oracle is local to your machine, this should be the location of your **oradata\orcl** folder. For example:

c:\app\(user)\oradata\orcl\OrchestratorReportingTemp.dbf

- If your Oracle Server is remote, enter the **Name** of the file. For example:

OrchestratorReportingTemp.dbf

For example:

ADMLOGPATH1_ORA=<OrchestratorReportingTemp.dbf>

d. Enter the Temporary Tablespace Size (in MB). (Minimum value is 20 and Default is 250). For example:

ADMLOGSIZE1_ORA=250

Updating Oracle RAC Details

This section provides Oracle RAC details to be entered in the Cisco Process Orchestrator silent install configuration file.

Note: You must use this section when ServerFeature is installed and only if this is a new installation (SERVER_NUMBER is set to 1).

Note: You must use this section only when Database Type is Oracle Server (DATABASETYPE is set to 2).

Note: You must use this section only if this is an Oracle RAC install (RAC_CHECKBOX is set to 1).

- 1. Under the **Processes Database** section, specify the **Oracle RAC Server** that host the Processes Database.
 - a. Enter the connection type you want to use:
 - For TNS (Requires Oracle Client 12c 64-bit), enter: 1
 - For Single Client Access Name (SCAN), enter: 2

For example:

```
RAC_CONN_TYPE=1
```

b. Enter the **TNS Alias** if RAC_CONN_TYPE is set to 1. For example:

```
RAC TNS ALIAS=1
```

c. Enter the SCAN Host Name, Port (Default is 1521) and Service Name if RAC_CONN_TYPE is set to 2. For example:

```
RAC_SCAN_HOST=<hostname>
RAC_SCAN_PORT=1521
RAC_SCAN_SERVICENAME=<servicename>
```

d. Enter the System Account User/Schema Name and Password. For example:

```
RAC_USER_SCHEMA=<username>
RAC_PASSWORD=<password>
```

- 2. Under the Processes Database Access Account section:
 - a. Specify the User/Schema and Password for the server to access the database. (Default is OrchestratorProcess). For example:

```
TIAACCESSACCOUNTNAME_ORA_RAC=OrchestratorProcess
TIAACCESSACCOUNTPASSWORD ORA RAC=rassword>
```

b. If the above User/Schema already exists, enter: TRUE, otherwise leave blank. For example:

```
TDBEXIST ORA RAC=<TRUE>
```

Note: The value is Case Sensitive.

3. Under the Oracle Processes Tablespace Datafiles section:

Note: You must use this section only when Processes Database is new (TDBEXIST_ORA_RAC is blank).

a. Enter the **Disk Group** information for data file. For example:

```
DISK_GROUP_DATA=DATA
```

Note: Do not enter plus sign before the value.

b. Enter the Database Tablespace Size (in MB). (Minimum value is 20 and Default is 500). For example:

ADMDATASIZE ORA RAC=500

c. Enter the **Disk Group** information for temp file. For example:

DISK_GROUP_TEMP=DATA

Note: Do not enter plus sign before the value.

d. Enter the Temporary Tablespace Size (in MB). (Minimum value is 10 and Default is 250). For example:

ADMLOGSIZE_ORA_RAC=250

- 4. Under the Reporting Database section, specify the Oracle RAC Server that host the Reporting Database.
 - a. Enter the Connection Type you want to use:
 - For TNS (Requires Oracle Client 12c R2 64-bit), enter: 1
 - For Single Client Access Name (SCAN), enter: 2

For example:

RAC_CONN_TYPE1=1

b. Enter the **TNS Alias** if RAC_CONN_TYPE1 is set to 1. For example:

RAC TNS ALIAS1=1

c. Enter the SCAN Host Name, Port (Default is 1521) and Service Name if RAC_CONN_TYPE1 is set to 2. For example:

RAC_SCAN_HOST1=<hostname>
RAC_SCAN_PORT1=1521
RAC_SCAN_SERVICENAME1=<servicename>

d. Enter the System Account User/Schema Name and Password. For example:

RAC_USER_SCHEMA1=<username>
RAC PASSWORD1=<password>

- 5. Under the Reporting Database Access Account section:
 - a. Specify the User/Schema and Password for the server to access the database. (Default is OrchestratorReporting). For example:

TIAACCESSACCOUNTNAME1_ORA_RAC=OrchestratorReporting TIAACCESSACCOUNTPASSWORD1_ORA_RAC=cpassword>

b. If the above user/schema already exists, enter: TRUE, otherwise leave blank. For example:

TDBEXIST1_ORA_RAC=<TRUE>

Note: The value is Case Sensitive.

6. Under the Oracle Reporting Tablespace Datafiles section:

Note: You must use this section only when Reporting Database is new (TDBEXIST1_ORA_RAC is blank).

a. Enter the Disk Group information for data file. For example:

DISK_GROUP_DATA1=DATA

Note: Do not enter plus sign before the value.

b. Enter the Database Tablespace Size (in MB). (Minimum value is 100 and Default is 500). For example:

```
ADMDATASIZE1_ORA_RAC=500
```

c. Enter the **Disk Group** information for temp file. For example:

```
DISK GROUP TEMP1=DATA
```

Note: Do not enter plus sign before the value.

d. Enter the Temporary Tablespace Size (in MB). (Minimum value is 20 and Default is 250). For example:

```
ADMLOGSIZE1 ORA RAC=250
```

Updating MariaDB Details

Note: You must use this section when ServerFeature is installed and only if this is a new installation (SERVER_NUMBER is set to 1).

Note: You must use this section when Database Type is MariaDB Server (DATABASETYPE is set to 3).

- 1. Under the **Processes Database** section:
 - a. Enter the Server Name.

For example:

```
MARIADB IS SQLSERVER SERVER=<server>
```

b. In the **Processes Database Name Field**, enter a unique name or the default name is **OrchestratorProcess**. For example:

```
{\tt MARIADB\_IS\_SQLSERVER\_DATABASE=OrchestratorProcess}
```

c. If the above database is an existing database, enter: 1, otherwise leave blank. For example:

```
MARIADB_TDBEXIST=1
```

d. Enter the Database creation credentials:

For example:

```
MARIADB_IS_SQLSERVER_USERNAME=<username>
MARIADB IS SQLSERVER PASSWORD=roassword>
```

2. Under the **Processes Database Access Account** section:

Note: You must use this section when Processes Database is new or existing (TDBEXIST is set to 1 or is blank).

a. Specify the credentials for the server to access the database, Enter the Username and Password.

For example:

```
MARIADB_TIAACCESSACCOUNTNAME=<username>
MARIADB_TIAACCESSACCOUNTPASSWORD=<password>
```

b. If the above database is new (TDBEXIST is blank), enter: 1.

For example:

TIAACCESSACCOUNTUSER CANCREATE=1

c. Enter the password used in MARIADB_TIAACCESSACCOUNTPASSWORD.

For example:

TIAACCESSACCOUNTPASSWORD CONFIRM=<password>

Updating High Availability Details

This section provides HA (High Availability) details to be entered in the Cisco Process Orchestrator silent install configuration file.

Note: You must use this section when ServerFeature is installed and only if choosing to add server to HA environment (SERVER_NUMBER is set to 2).

- 1. Under the Server Connection Information section:
 - a. Provide the connection details. Server Name or IP Address and Port Number (Default Port is 61525). For example:

```
HA_EXISTING_SERVER=<server>
HA EXISTING SERVER PORT=61525
```

- b. Enter the Credentials:
- For current user, enter: 1
- For other user, enter: 2

For example:

```
{\tt HA\_EXISTING\_SERVER\_CREDS=1}
```

c. If other user, enter the **Username** and **Password**. For example:

```
HA_EXISTING_SERVER_USERNAME=<username>
HA_EXISTING_SERVER_PASSWORD=rpassword>
```

2. Under the **Database Connection Information** section. If you are adding this server to an **SQL Server HA environment**, provide the connection details.

Note: You must use this section when ServerFeature is installed and only if choosing to add server to SQL Server HA environment (SERVER_NUMBER is set to 2).

a. Enter the SQL Server Connection Server Name or IP Address. For example:

```
HA_DB_SERVER_EDIT=<server>
```

b. Enter the **SQL Server Name**. For example:

```
HA_DB_NAME_EDIT=<server>
```

- c. For the Windows Authentication (Domain\Username), enter: 1
- d. For the SQL Authentication (Mixed mode), enter: 2

For example:

```
HA DB CONN INFO RADIO=1
```

e. If using Windows Authentication, enter Domain\Username. For example:

```
HA_DB_USER_EDIT=<domain\username>
```

f. Enter the authentication **Password**. For example:

```
HA DB PASSWORD EDIT=<password>
```

3. Under the **Database Connection Information** section. If you are adding this server to an **Oracle HA environment**, provide the connection details.

Note: You must use this section only when Database Type is Oracle Server (DATABASETYPE is set to 2).

Note: You must use this section when ServerFeature is installed and only if choosing to add server to Oracle HA environment (SERVER_NUMBER is set to 2).

a. Enter the Oracle Server Connection Server Name or IP Address. For example:

```
HA DB SERVER EDIT ORA=<server>
```

b. Enter the **Oracle Server Port**. For example:

```
HA_DB_PORT_EDIT_ORA=<port>
```

c. Enter the Oracle Service Identifier (SID). For example:

```
HA DB SID EDIT ORA=<orcl>
```

d. Enter the Oracle DB User/Schema. For example:

```
HA_DB_USER_EDIT_ORA=<username>
```

e. Enter the Oracle DB Password. For example:

```
HA_DB_PASSWORD_EDIT_ORA=<password>
```

 Under the Database Connection Information section. If you are adding this server to an Oracle RAC HA environment, provide the connection details.

Note: You must use this section when ServerFeature is installed and only if choosing to add server to Oracle RAC HA environment (SERVER_NUMBER is set to 2).

a. If using TNS Alias, enter the Name. For example:

```
HA_RAC_TNS_ALIAS_EDIT=<aliasname>
```

b. If using SCAN, enter Host Name, Port, and Service Name. For example:

```
HA_RAC_SCAN_HOST_EDIT=<hostname>
HA_RAC_SCAN_PORT_EDIT=<port>
HA_RAC_SCAN_SERVICENAME_EDIT=<servicename>
```

c. Enter the Oracle RAC DB User/Schema. For example:

```
HA RAC USER SCHEMA EDIT=<username>
```

d. Enter the Oracle RAC DB Password. For example:

```
HA RAC USER PASSWORD EDIT=<password>
```

Under the Database Connection Information section, If you are adding this server to an MariaDB, provide the connection details.

Note: You must use this section when ServerFeature is installed and only if choosing to add server to MariaDB HA environment (SERVER_NUMBER is set to 2).

a. Enter the MariaDB Server Connection Server Name or IP Address.

For example:

```
HA DB SERVER EDIT=<server>
```

b. Enter the **Database name**. For example:

```
HA DB NAME EDIT=<databasename>
```

c. Enter the Username. For example:

```
HA DB USER EDIT=<username>
```

d. Enter the Authentication Password. For example:

```
HA DB PASSWORD EDIT=<password>
```

Updating Additional Configuration Details

This section provides additional configuration details to be entered in the Cisco Process Orchestrator silent install configuration file.

1. Under the **Default Role User Assignments** section, choose user or group to assign to security roles.

Note: You must use this section when ServerFeature is installed and only if this is a new installation (SERVER_NUMBER is set to 1).

a. If you don't want to configure Active Directory Groups, enter: 1, otherwise leave blank. For example:

```
SKIP_GROUP_CREATION=1
```

b. If you wish to assign users or groups, enter the name beside each role (Administrators, Auditors, Definition, Operators), otherwise leave blank. For example:

```
For users, use format: DOMAIN\USERNAME
For local groups, use format: BUILTIN\GROUPNAME
For non-local groups, use format: DOMAIN\GROUPNAME
AD_ADMIN_GROUP_EDIT=
AD_AUDITORS_GROUP_EDIT=
AD_DEF_AUTHORS_GROUP_EDIT=
AD_OPERATORS_GROUP_EDIT=
```

Note: To assign the Administrators Role you must have Administrator rights.

- 2. Under the Server Name and Port Number section:
 - a. Specify the default Server name or IP Address to which the console connects. For example:

DEFAULTSERVERNAME=<server>

b. Specify the default Port Number for the server name (Default is 61525). For example:

DEFAULTPORTNUMBER=61525

Note: You must use this section when ConsoleFeature and/or WebConsoleFeature is installed and only if this is a new installation.

Note: You must not use this section if ServerFeature is installed.

3. Under the **Windows Runtime User** section, enter the default Windows credentials (**Username**, **Password**, and **Domain**) to create a **CPO Windows Runtime User**. For example:

```
WINDOWS_USER_USER=<username>
WINDOWS_USER_PWD=<password>
WINDOWS_USER_DOMAIN=<domain>
```

Note: You must use this section when ServerFeature is installed and only if this is a new installation (SERVER_NUMBER is set to 1).

Note: You must not use this section if TDBEXIST or TDBEXIST ORA is set to 1.

- 4. Under the Web Console section:
 - a. Enter the Web Console Site Name (Default is OrchestratorWebConsole). For example:

WEBCONSOLESITE=OrchestratorWebConsole

b. Enter the **Web Console Port Number** (Default is **443**). For example:

TCPPORTNUMBER=443

Note: You must use this section when WebConsoleFeature is installed.

Installing Cisco Process Orchestrator Manually

This section provides information to install Cisco Process Orchestrator manually.

Installing Using MSSQL

The Server option installs all database server and client components available in Cisco Process Orchestrator. The user will be required to configure the Processes and Reporting database (optional) features during the installation process.

With the Client option, you can open multiple instances of the Console on the same client computer. The individual Console instances can be connected to the same or different server of any version of the product.

Use the following steps to install the entire Cisco Process Orchestrator product. This installation includes the client, automation server, and web console.

- 1. Run Setup.exe to start the Cisco Process Orchestrator Autorun Utility.
- On the Setup tab, click Install Cisco Process Orchestrator to display the Welcome to the Cisco Process Orchestrator Setup Wizard panel, and then click Next.
- 3. Review the default installation folder path for Cisco Process Orchestrator, and then click Next.

To change the file path for the installation folder, click **Change**. This action launches the Change Current Destination Folder panel and allows the user to navigate to the appropriate file location.

- 4. In the Setup Type panel:
 - a. Select the application options to be installed, and then click Next.

- b. Optionally, you can add the Console and Webconsole shortcuts to the Desktop and/or pin them to the taskbar.
- **5.** In the Cisco Process Orchestrator Server Install Options panel:
 - a. Under Server Install Options, specify the server install option.

Field	Description
This is a new installation of Cisco Process Orchestrator server	Select this option if this is a new installation and you do not wish to add a server to an existing High Availability configuration.
Add Cisco Process Orchestrator server to an existing High Availability configuration	Select this option to add a server to an existing environment.

- b. In the Environment name field, enter a unique name for the Cisco Process Orchestrator environment, and then click **Next**.
- 6. In the Database Information panel:
 - **a.** Under Database Server, select **Microsoft SQL Server Database** as the database platform to be created for both the Cisco Process Orchestrator Process and Reporting database.
 - b. Under Additional Install Options, check the appropriate configuration check boxes, and then click Next.

Options	Description
Restart WMI service during installation	Check this check box to restart the Windows Management Instrumentation during the installation and ensure that certain Cisco Process Orchestrator processes can run after the installation.
	If the check box remains unchecked, then the Cisco Process Orchestrator processes will not be able to run until after the WMI service has been restarted.
Create reporting database during installation	Check this check box to create reporting database while installing Cisco Process Orchestrator.

- 7. In the Create Processes Database panel:
 - **a.** In the Database server field, enter the appropriate database server path that will be used to store processes and other Cisco Process Orchestrator created objects.
 - **b.** In the Processes Database name field, enter the name of the database that will be used to store processes (default: OrchestratorProcess).
 - c. Choose Create database using, select the appropriate credentials to be used for creating the database, and then click Next.

Field	Description
Windows authentication credentials of current user	Select this radio button to use the Windows credentials for creating the database.
Server authentication using the credentials below	Select this radio button and then enter the SQL server credentials to use for creating the database.

8. In the Processes Database Storage panel:

a. Under Database, verify the default data path and file size or enter the alternate information in the appropriate fields:

Field	Description
Data path	File path to the database data file
Size (MB)	Maximum file size for the data file. The database size should not be smaller than the model database in the SQL server.

b. Under Transaction Log, verify the default log path and file size or enter the alternate information in the appropriate fields:

Field	Description
Log path	File path to the database transaction log file
Size (MB)	Maximum file size for the transaction log file.

Note: To avoid having huge database log files, run daily backups of the Cisco Process Orchestrator database or change the recovery model.

c. Under Recovery Model, select the Recovery Model type from the list, and then click Next.

The default of *Full* is appropriate for a production level deployment which has routine backups. The note is about this mode. For POCs or environments where users will not take daily backups, it is important to set the SQL Server recovery mode to *Simple*. This can dramatically increase Cisco Process Orchestrator database performance and reduce disk usage.

9. In the Processes Database Access Account panel, specify the credentials the server will use to create the database, and then click **Next**.

Field	Description
Windows authentication	Select this radio button and then enter the credentials to use for creating a database.
	User-User name for the default Windows user
	Password—Password credentials for the user name
	Domain-Verify the default Windows domain for the current logged in user or enter the new Windows domain.
SQL Server authentication	Select this radio and then enter the SQL server credentials to use for creating the database.
	 User-User name for the SQL Server database
	■ Password—Password credentials for the user name

10. In the Create Reporting Database panel, specify the credentials the server will use to create the database, and then click **Next.**

Field	Description
Database Server	The SQL Server that will host the Reporting database
Reporting Database name	The name of the Reporting database (default: OrchestratorReporting)
Create database using	Windows authentication credentials of the current userServer authentication using the credentials below.
	 User-User name for the SQL Server database Password-Password credentials for the user name

- 11. In the Reporting Database Storage panel:
 - a. Under Database, verify the data path and file size:

Field	Description
Data path	File path to the database data file
Size (MB)	Maximum file size for the data file. The database size should not be smaller than the model database in the SQL server.

b. Under Transaction Log, verify the log path and file size:

Field	Description
Log path	File path to the database transaction log file
Size (MB)	Maximum file size for the transaction log file.

Note: To avoid having huge database log files, run daily backups of the Cisco Process Orchestrator database or change the recovery model.

- c. Under Recovery Model, select the Recovery Model type from the list, and then click Next.
- Choose *Full* for a production level deployment that has routine backups.
- For POCs or environments that do not take daily backups, set the SQL Server recovery mode to Simple. This
 can dramatically increase Cisco Process Orchestrator database performance and reduce disk usage.

12. In the Reporting Database Access Account panel, specify the credentials the server will use to create the database, and then click **Next**.

Field	Description
Windows authentication	Select this radio button and then enter the credentials to use for creating a database.
	User–User name for the default Windows user
	Password–Password credentials for the user name
	Domain-Verify the default Windows domain for the current logged in user or enter the new Windows domain.
SQL Server authentication	Select this radio and then enter the SQL server credentials to use for creating the database.
	User–User name for the SQL Server database
	Password–Password credentials for the user name

13. In the Default Role User Assignments panel, choose a user or group to assign to the default security roles, and then click **Next**.

Note: Click **Skip** to defer assigning user assignments to the Cisco Process Orchestrator default roles until after the installation.

- a. To assign the same user or user group to all default Cisco Process Orchestrator roles, check the Use the same assignment for all roles check box. Click Browse to launch the Select User or Group dialog box to query the user or user group.
- **b.** To assign a user or group to a default Cisco Process Orchestrator role, click **Browse** to the right of the appropriate role to launch the Select User or Group dialog box to query the appropriate user or user group

Table 1 Cisco Process Orchestrator Roles

User Group	Description
Administrators Role	Full rights to every view on the Console and the ability to create and update all process definitions.
	Note: Local administrators of the machine where Cisco Process Orchestrator is installed will automatically have Cisco Process Orchestrator administrator rights, even if they do not have specifically granted Cisco Process Orchestrator administrator rights.
Auditors Role	View all Operations information (Activity Views, Process Views and Auditing)
	Cannot start processes in an adhoc manner
	Permission to view all Operation and audit logs
	View, but cannot modify or create product objects such as process definitions, target definition or administration information.
Definition Role	View all Operations information (Activity Views, Process Views and Auditing)
	Start processes in adhoc manner
	Cancel running processes
	Permission to view, create, edit, or control product definitions such as process definitions and target definitions.
	Permission to view but not update administration information.
Operators Role	View all Operations information (Activity Views, Process Views and Auditing)
	Start processes in adhoc manner
	Cancel running processes
	 Cannot view or update definition and administration information

- **14.** In the Windows Runtime User panel, enter the default Windows user credentials to create a Cisco Process Orchestrator Windows Runtime user, and then click **Next**.
- **15.** In the Cisco Process Orchestrator Web Console panel, specify the website name and port information to be used for the Web Console, and then click **Next**.

Field	Description
Web site name	Enter the product Web Console name. The default is OrchestratorWebConsole.
Port	Verify the port for the Web Console (Default: 443)

- 16. Click Install to install the selected application components.
- 17. When the Setup Completed panel displays, choose one of the following options:
 - a. Click Finish to launch the Automation Pack Import Wizard immediately after the install is finished.
 - b. To prevent the Automation Pack Import Wizard from launching automatically, uncheck the Launch Import Automation Pack Wizard now check box, and then click Finish.

Installing Using Oracle

Use the following steps to provide the Oracle Database credentials to create a process and reporting database for Cisco Process Orchestrator.

Note: The database settings should be case-insensitive.

- 1. Run Setup.exe to start the Cisco Process Orchestrator Autorun Utility.
- 2. On the Setup tab, click **Install Cisco Process Orchestrator** to display the Welcome to the Cisco Process Orchestrator Setup Wizard panel, and then click **Next**.
- 3. Review the default installation folder path for Cisco Process Orchestrator, and then click Next.

To change the file path for the installation folder, click **Change**. This action launches the Change Current Destination Folder panel and allows the user to navigate to the appropriate file location.

- **4.** In the Setup Type panel:
 - a. Select the application options to be installed, and then click Next.
 - **b.** Optionally, you can add the Console and Webconsole shortcuts to the Desktop and/or pin them to the taskbar.
- 5. In the Cisco Process Orchestrator Server Install Options panel:
 - a. Under Server Install Options, specify the server install option.

Field	Description
This is a new installation of Cisco Process Orchestrator server	Select this option if this is a new installation and you do not wish to add a server to an existing High Availability configuration.
Add Cisco Process Orchestrator server to an existing High Availability configuration	Select this option to add a server to an existing environment.

- b. In the Environment name field, enter a unique name for the Cisco Process Orchestrator server environment, and then click Next.
- 6. In the Database Information panel:
 - **a.** Under Database Server, select **Oracle Database** as the database platform to be created for both the Cisco Process Orchestrator Process and Reporting database.

Note: (Optional) Check the Oracle Real Application Clusters (RAC) install check box to indicate the Oracle RAC should be installed when the Oracle database is installed, then skip to Using Oracle RAC Mode, page 29.

b. Under Additional Install Options, check the appropriate configuration check boxes, and then click Next.

Options	Description
Restart WMI service during installation	Check this check box to restart the Windows Management Instrumentation during the installation and ensure that certain Cisco Process Orchestrator processes can run after the installation. If the check box remains unchecked, then the Cisco Process Orchestrator processes will not be able to run until after the WMI service has been restarted.
Create reporting database during installation	Check this check box to create reporting database while installing Cisco Process Orchestrator.

7. In the Create Processes Database panel:

- b. In the Oracle Service Identifier (SID) field, enter the Oracle system ID for the selected database.
- c. Choose Create database using, enter the system login ID for the Oracle database server and the password credentials for the login ID, and then click Next.
- 8. In the Processes Database Access Account panel, enter the credentials the server will use to access the database, and then click **Next**.
- 9. In the Oracle Tablespace datafiles panel, enter the following information, and then click Next.
 - a. Under the Processes Database Tablespace:

Options	Description
Disk Group	Enter the ASM disk group.
Size	Enter the maximum file size for the disk group. The database size should not be smaller than the model database in the Oracle server.

10. Under the Temporary Tablespace:.

Options	Description
Disk Group	Enter the ASM disk group.
Size	Enter the maximum file size for the disk group. The database size should not be smaller than the model database in the Oracle server.

11. In the Create Reporting Database panel, enter the following information, and then click Next.

Options	Description
Database Server	Enter the appropriate database server path that will be used to store processes and other Cisco Process Orchestrator created objects. For example, <pre><server>:<port>/<global database="" name="">.</global></port></server></pre>
Oracle Service Identifier (SID)	Enter the Oracle system ID for the selected database.
Create database using	Login ID—Enter the system login ID for the Oracle database server.
	Password–Enter the password credentials for the login ID.

12. In the Reporting Database Access account panel, enter the credentials the server will use to access the database, and then click Next.

Options	Description
User/Schema	Enter the name for the user or schema.
Password	Enter the password credentials for the user or schema.

- 13. In the Oracle Tablespace datafiles panel, enter the following information, and then click Next.
 - a. Under Reporting Database Tablespace:

Options	Description
Data File	Enter the name of the file for the Reporting tablespace.
Size (MB)	Maximum file size for the disk group. The database size should not be smaller than the model database in the Oracle server.

b. Under Temporary Tablespace:

Options	Description
Data File	Enter the name of the file for the temporary tablespace.
Size (MB)	Maximum file size for the disk group. The database size should not be smaller than the model database in the Oracle server.

14. In the Default Role User Assignments panel, choose a user or group to assign to the default security roles, and then click **Next**.

Note: Click **Skip** to defer assigning user assignments to the Cisco Process Orchestrator default roles until after the installation.

- a. To assign the same user or user group to all default Cisco Process Orchestrator roles, check the Use the same assignment for all roles check box. Click Browse to launch the Select User or Group dialog box to query the user or user group.
- b. To assign a user or group to a default Cisco Process Orchestrator role, click **Browse** to the right of the appropriate role to launch the Select User or Group dialog box to query the appropriate user or user group. For more information, see Table 1Cisco Process Orchestrator Roles.
- 15. In the Windows Runtime User panel, enter the default Windows user credentials to create a Cisco Process Orchestrator Windows Runtime user, and then click **Next**.

16. In the Cisco Process Orchestrator Web Console panel, specify the website name and port information to be used for the Web Console, and then click **Next.**

Field	Description
Web site name	Enter the product Web Console name. The default is OrchestratorWebConsole.
Port	Verify the port for the Web Console (Default: 443)

- 17. Click Install to install the selected application components.
- 18. When the Setup Completed panel displays, choose one of the following options:
 - a. Click Finish to launch the Automation Pack Import Wizard immediately after the install is finished.
 - b. To prevent the Automation Pack Import Wizard from launching automatically, uncheck the Launch Import Automation Pack Wizard now check box, and then click Finish.

Using Oracle RAC Mode

Oracle Real Application Clusters (RAC) provides software for clustering and high availability in Oracle database environments. Oracle RAC allows multiple computers to run Oracle RDBMS software simultaneously while accessing a single database, thus providing clustering. In an Oracle RAC environment, two or more computers (each with an Oracle RDBMS instance) concurrently access a single database. This allows an application or user to connect to either computer and have access to a single coordinated set of data.

- 1. Run Setup.exe to start the Cisco Process Orchestrator Autorun Utility.
- 2. On the Setup tab, click **Install Cisco Process Orchestrator** to display the Welcome to the Cisco Process Orchestrator Setup Wizard panel, and then click **Next**.
- 3. Review the default installation folder path for Cisco Process Orchestrator, and then click Next.

To change the file path for the installation folder, click **Change**. This action launches the Change Current Destination Folder panel and allows the user to navigate to the appropriate file location.

- 4. In the Setup Type panel:
 - a. Select the application options to be installed, and then click Next.
 - b. Optionally, you can add the Console and Webconsole shortcuts to the Desktop and/or pin them to the taskbar.
- 5. In the Cisco Process Orchestrator Server Install Options panel, select This is a new installation of Cisco Process Orchestrator server and enter a unique environment name, and then click Next.
- 6. In the Database Information panel, select the Oracle Real Applications Clusters (RAC) install option.

7. In the Processes Database - Oracle RAC panel under Database Information, select the existing Processes database server information, and then click **Next**.

Options	Description
TNS (Requires Oracle Client 12c 64-bit)	Enter the following:
	 TNS Alias-Enter the TNS alias name for detecting an RAC only connection.
	Login ID—Enter the system login ID for the Oracle database server.
	Password–Enter the password credentials for the login ID.
Single Client Access Name (SCAN)	Enter the following:
	■ Host-Enter the Oracle DB SCAN host name.
	Port-Enter the port number for the host.
	Service Name-Enter the Oracle service name.
	 System Account-Enter the system login ID for the Oracle database server.
	Password–Enter the password credentials for the login ID.

8. In the Processes Database Access Account panel under Database credentials, enter the credentials the server will use to access the database, and then click **Next**.

Options	Description
User/Schema	Enter the name for the user or schema.
Password	Enter the password credentials for the user or schema.
Confirm Password	Reenter the password credentials for the user or schema.

- 9. In the Oracle Tablespace datafiles panel, enter the following information, and then click Next.
 - a. Under Processes Database Tablespace:

Options	Description
Disk Group	Enter the ASM disk group.
Size (MB)	Enter the maximum file size for the disk group. The database size should not be smaller than the model database in the Oracle server.

A prompt displays requesting you verify there is enough free disk space to support the database files on the remote Oracle Server.

b. Under Temporary Tablespace:

Options	Description
Disk Group	Enter the ASM disk group.
Size (MB)	Enter the maximum file size for the disk group. The database size should not be smaller than the model database in the Oracle server.

10. In the Reporting Database - Oracle RAC panel under Database Information, select the existing Reporting database server information, and then click **Next**.

Options	Description
TNS (Requires Oracle Client 12c 64-bit)	Enter the following:
	 TNS Alias-Enter the TNS alias name for detecting an RAC only connection
	Login ID—Enter the system login ID for the Oracle reporting database server.
	Password–Enter the password credentials for the login ID.
Single Client Access Name (SCAN)	Enter the following:
	■ Host-Enter the Oracle DB SCAN host name.
	Port-Enter the port number for the host.
	Service Name-Enter the Oracle service name
	System Account-Enter the system login ID for the Oracle database server.
	Password–Enter the password credentials for the login ID.

11. In the Reporting Database Access account Panel under Database credentials, enter the credentials the server will use to access the reporting database, and then click **Next**.

Options	Description
User/Schema	Enter the name for the user or schema.
Password	Enter the password credentials for the user or schema.
Confirm Password	Reenter the password credentials for the user or schema.

12. In the Oracle Tablespace datafiles panel:

a. Under Reporting Database Tablespace:

Options	Description
Disk Group	Enter the ASM disk group.
Size (MB)	Maximum file size for the disk group. The database size should not be smaller than the model database in the Oracle server.

b. Under Temporary Tablespace:

Options	Description
Disk Group	Enter the ASM disk group.
Size (MB)	Maximum file size for the disk group. The database size should not be smaller than the model database in the Oracle server.

A prompt displays requesting you verify there is enough free disk space to support the database files on the remote Oracle Server.

13. In the Default Role User Assignments panel, choose a user or group to create default roles in Cisco Process Orchestrator based on users and groups in Active Directory, and then click **Next**.

Note: Click **Skip** to defer assigning user assignments to the Cisco Process Orchestrator default roles until after the installation.

- a. To assign the same user or user group to all default Cisco Process Orchestrator roles, check the Use the same assignment for all roles check box. Click Browse to launch the Select User or Group dialog box to query the user or user group.
- **b.** To assign a user or group to a default Cisco Process Orchestrator role, click **Browse** to the right of the appropriate role to launch the Select User or Group dialog box to query the appropriate user or user group.

Field	Description
Administrators Role	When assigned to this group, you have access to everything in the product. Users can view or modify any definition, process, or setting.
Auditors Role	When assigned to this group, the user can view any definition, such as running processes.
Definition Role	When assigned to this group, the user can view or modify any definition or workflow.
Operators Role	When assigned to this group, users have full access to all processes. All processes can be viewed, started, and canceled, but cannot be modified.

14. In the Windows Runtime User panel, enter the default Windows user credentials to create a Cisco Process Orchestrator Windows Runtime user, and then click **Next**.

Note: Optionally, you can click **Skip** to skip choosing the AD or user for each roles. Only the Administrators Role will be assigned to the current installing user.

15. In the Cisco Process Orchestrator Web Console panel, specify the website name and port information to be used for the Web Console, and then click **Next.**

Field	Description
Web site name	Enter the product Web Console name. The default is OrchestratorWebConsole.
Port	Verify the port for the Web Console (Default: 443)

- 16. Click **Install** to install the selected application components.
- 17. When the Setup Completed panel displays, choose one of the following options:
 - a. Click Finish to launch the Automation Pack Import Wizard immediately after the install is finished.
 - b. To prevent the Automation Pack Import Wizard from launching automatically, uncheck the Launch Import Automation Pack Wizard now check box, and then click Finish.

Manual Installation

You can configure information for Cisco Process Orchestrator using Oracle database 12c running in real application clustering. Most of the configuration is applied post-installation. Before the Cisco Process Orchestrator Process database can be configured in RAC mode, the Oracle Call Interface (OCI) client must exist on the computer where the Cisco Process Orchestrator server is installed.

Use the following steps to configure the Cisco Process Orchestrator process database server in RAC mode.

- 1. Install oracle win64 19 client.
- 2. Create an entry for the Cisco Process Orchestrator oracle service than is running in the tnsnames.ora file as mentioned below.

3. Make sure you are able to successfully do a tnsping to the Oracle SID. For example:

```
C:\Users\Administrator>tnsping orcl
TNS Ping Utility for 64-bit Windows: Version 19.0.0.0.0- Production on 03-Feb-2020 08:10:36
Copyright (c) 1997, 2019, Oracle. All rights reserved.
Used parameter files:
C:\app\Administrator\product\19.0.0\client_1\network\admin\sqlnet.ora
Used TNSNAMES adapter to resolve the alias
Attempting to contact (DESCRIPTION = (ADDRESS_LIST = (ADDRESS = (PROTOCOL = TCP)
(HOST = 172.18.173.24)(PORT = 1521))) (CONNECT_DATA = (SID = ORCL)))
OK (0 msec)
```

- Before you run the Cisco Process Orchestrator installer, identify your global database by executing the SQL mentioned below.
- 5. Login as 'system' or sys and execute the following:

```
SELECT * FROM global name;
```

For example:

ORCL.GIATAC.LOCAL is the global database

- Click Next. You will be prompted to create OrchestratorProcess and OrchestratorReporting tablespaces (The password character length is greater than 8 chars).
- 7. Follow this guide for the next steps.
- 8. Click Install.

Installing Using MariaDB

Use the following steps to provide the MariaDB credentials to create a process and reporting database for Cisco Process Orchestrator.

Note: The database settings must be case-insensitive.

- 1. Run Setup.exe to start the Cisco Process Orchestrator Autorun Utility.
- On the Setup tab, click Install Cisco Process Orchestrator to display the Welcome to the Cisco Process Orchestrator Setup Wizard panel, and then click Next.
- 3. Review the default installation folder path for Cisco Process Orchestrator, and then click Next.

To change the file path for the installation folder, click **Change**. This action launches the Change Current Destination Folder panel and allows you to navigate to the appropriate file location.

- 4. In the Setup Type panel:
 - a. Select the application options to be installed, and then click Next.
 - b. Optionally, you can add the Console and Webconsole shortcuts to the Desktop and/or pin them to the taskbar.
- 5. In the Cisco Process Orchestrator **Server Install Options** panel, do the following:
 - a. Under Server Install Options, select the server install option.
 - b. In the Environment name field, enter a unique name for the Cisco Process Orchestrator server environment, and then click Next.
- 6. In the Database Information panel:
 - **a.** Under Database Server, select **MariaDB** as the database platform to be created for both the Cisco Process Orchestrator Process.
 - b. Under Additional Install Options, check Restart WMI service during installation check box, and then click Next.
 - Check this check box to restart the Windows Management Instrumentation during installation and ensure that certain Cisco Process Orchestrator processes can run after the installation.

Note: If the check box remains unchecked, then the Cisco Process Orchestrator processes will not be able to run until after the WMI service has been restarted.

- 7. In the Use Existing or Create Processes Database panel:
 - a. In the Database server field, enter the appropriate database server path used to store processes and other Cisco Process Orchestrator created objects.
 - b. In the **Processes Database Name field**, enter the name of the database used to store processes (default: OrchestratorProcess).
 - c. Enter the system login ID for the MariaDB database server and the password credentials for the login ID, and then click **Next**.
- 8. In the **Processes Database Access Account** panel, enter the credentials the server will use to access the database, and then click **Next**.

Note: If the check box is checked, then the Cisco Process Orchestrator creates a new user if the user doesn't exist already.

9. In the **Default Role User Assignments** panel, choose a user or group to assign to the default security roles, and then click **Next**.

Note: Click **Skip** to defer assigning user assignments to the Cisco Process Orchestrator default roles until after the installation.

- a. To assign the same user or user group to all default Cisco Process Orchestrator roles, check the Use the same assignment for all roles check box. Click Browse to launch the Select User or Group dialog box to query the user or user group.
- **b.** To assign a user or group to a default Cisco Process Orchestrator role, click **Browse** to the right of the appropriate role to launch the Select User or Group dialog box to query the appropriate user or user group. For more information, see Table 1Cisco Process Orchestrator Roles.
- 10. In the Windows Runtime User panel, enter the default Windows user credentials to create a Cisco Process Orchestrator Windows Runtime user, and then click **Next**.
- 11. In the Cisco Process Orchestrator Web Console panel, specify the website name and port information to be used for the Web Console, and then click **Next.**

Field	Description
Web site name	Enter the product Web Console name. The default is OrchestratorWebConsole.
Port	Verify the port for the Web Console (Default: 443)

- 12. Click Install to install the selected application components.
- 13. When the Setup Completed panel displays, choose one of the following options:
 - a. Click Finish to launch the Automation Pack Import Wizard immediately after the install is finished.
 - **b.** To prevent the **Automation Pack Import Wizard** from launching automatically, uncheck the **Launch Import Automation Pack Wizard now** check box, and then click **Finish**.

Installing Cisco Process Orchestrator for a High Availability Environment

- 1. Run Setup.exe to start the Cisco Process Orchestrator Autorun Utility.
- On the Setup tab, click Install Cisco Process Orchestrator to display the Welcome to the Cisco Process Orchestrator Setup Wizard panel, and then click Next.
- 3. Review the default installation folder path for Cisco Process Orchestrator, and then click Next.

Note: To change the file path for the installation folder, click **Change**. This action launches the Change Current Destination Folder panel and allows the user to navigate to the appropriate file location.

- 4. Select the application options to be installed, and then click **Next**.
- 5. Under Server Install Options, select Add a Cisco Process Orchestrator to an existing High Availability configuration, and then click Next.-
- 6. In the Server Connection Information panel, provide the following connection details to an existing server in the Cisco Process Orchestrator HA environment, and then click **Next.**

Field	Description
Server Name or IP Address	Enter the product HA server name.
Port	Verify the port for the HA server (Default: 61525)
User Name	 User name for the default user for the HA environment. SQL Authorization—select to use your SQL Service credentials upon connection to the database. AD Authorization—select to use your Active Directory credentials upon connection to the database.
Password	Password credentials for the user name

Note: By default, if the existing server is using SQL Server, the SQL server connection dialog will be shown. If the existing server is using Oracle, the Oracle connection dialog will be shown or if the existing server is using MariaDB, the MariaDB connection dialog will be shown. The dialog by default will be populated with the information that was used to validate the connection to the database, so you will need to modify this information with the correct information in order to continue. All fields are required in order to continue and when the user clicks Next, the installer validates the connection to the database and proceed if successful or show detailed error if it fails.

7. In the Database Connection Information panel, enter the following information, and then click Next.

Field	Description
Database Server	Enter the appropriate database server path used to store processes and other Cisco Process Orchestrator created objects.
	For example,
	For Oracle: <server>:<port>\<global database="" name="">. For SQL and MariaDB: <server>.</server></global></port></server>
Database Name	The name for the database used to store processes and other Cisco Process Orchestrator created objects.
	Note: The database name is filled in automatically and is not changeable.
Connection Information	Windows Authentication—Select to use your Windows credentials upon connection to the database SQL Server.
	SQL Server Authentication—Select to use your SQL Service credentials upon connection to the database.
	 Custom Authentication—For Oracle and MariaDB.
Database Port	For Oracle and MariaDB, enter the database listening port number.
Database SID	For Oracle, enter the Oracle system ID for the selected database.

8. In the Cisco Process Orchestrator Web Console panel, specify the website name and port information to be used for the Web Console, and then click **Next.**

Field	Description
Web site name	Enter the product Web Console name. The default is OrchestratorWebConsole.
Port	Verify the port for the Web Console (Default: 443)

- 9. Click **Install** to install the selected application components.
- 10. On the Setup Completed panel, click Finish.

Importing Automation Packs

- 1. On the Setup Completed panel, click Launch Automation Pack Import Wizard now (this is checked by default.)
- 2. On the Select Automation Packs dialog box, click the automation packs to be imported and click OK.

Note: The Core automation pack check box is checked by default and is always imported first.

The Welcome to the Automation Pack Import Wizard panel displays

3. Review the display-only information about the automation pack, and then click Next.

Note: The settings in this panel can be manually changed when configuring a specific email activity that requires a different SMTP server or sender email address. This can also be skipped by unchecking the box next to Enable SMTP server for outgoing emails.

4. On the Email Configuration panel, specify the default SMTP server and sender's email address to be used for email activities, and then click **Next**.

Field	Description
Default SMTP server	Name of the SMTP server that is used as the default server for sending email messages.
Default SMTP port	Port number for the SMTP server. This field is automatically populated with port number 25.
Default sender	Email address of the sender that is designated as the default sender for email activities.
Credentials Required	Specify the credentials if they will be required upon sending.

5. On the Automation Summary Configuration panel, specify where the automation summary reports that are generated by activities are to be saved and how long the reports are to be retained. The file paths specified indicate the path that will be used when viewing the automation summary reports..

Field	Description
Automation summary file share	Verify the default file path that the Cisco Process Orchestrator server will use when creating automation summary reports.
	Click Browse to determine the file share location on the network where all the automation summary reports are stored or click the Create a share on the current Orchestrator Server link.

6. Verify or enter the appropriate default file path for the automation summary directory. Enter the appropriate directory to map the automation summary to a shared directory or IIS Virtual Directory to allow end-users easier access to automation summaries using email or the Cisco Process Orchestrator Web Console.

Option	Description		
Automation summary file sha	Automation summary file share		
Share path	Enter the UNC path to a share directory. This path will be used when viewing the automation summary reports. For example:		
	(\\servername\sharename\path\filename)		
	■ Create a share on the current Orchestrator Server—Click this button to create the directory on the Cisco Process Orchestrator server where the automation summary reports should be created.		
	Note: Verify that the UNC share file path is on a network where the Cisco Process Orchestrator service account has write permissions.		
Credentials	There is a set of credentials used to write to the share. The account specified needs to have a "Batch" logon type in local security policy. It is located in Control Panel\All Control Panel Items\Administrative Tools.		
	Local Security Policy		
	■ Local Policies		
	User Rights Assignment		
	Log on as batch job		
Virtual directory mapping	Select the Enable virtual directory mapping check box to map the automation summary share to an IIS virtual directory.		
	In the Virtual directory path field, enter the http://host:(port)/sharefolder that corresponds to a virtual directory in IIS.		
	If necessary, go to IIS Manager to create your Web Sites and your Virtual Directory for the share folder. Use the default settings, change the setting if necessary.		

^{7.} Under Specify the destination for the extracted data, verify the default location where the Cisco Process Orchestrator-provided data files should be copied.

8. Under Select data to extract, check the appropriate check boxes, and then click Next.

Option	Description
Business Objects Reports	Check this check box to indicate that BIAR report files should be copied.
	The files are available for importing later into Business Objects.
Microsoft SCOM Management Packs	Cisco Process Orchestrator provides management packs for integration with the Microsoft System Center Operations Manager 2007 framework.
	Check this check box to indicate that the SCOM management pack files should be copied.
SQL Server Reporting Services Reports	Check this check box to indicate that the report files should be copied.
	The files are available for importing later into SQL Server Reporting Services.
	Note: Reports should be imported after the Automation Pack Import Wizard is completed.

The Review Prerequisites panel displays the following information:

Column	Description
Name	Name of the prerequisite
Status	Status shows whether the prerequisite was located on the computer
	Passed—The green check mark verifies that the prerequisite was located on the computer.
	Failed-The red X determines that the prerequisite is not available on the computer. When this occurs, the import progress is stopped and cannot continue until all prerequisites have been met.
Complete	Percentage of computer checked when verifying prerequisite
Description	Displays description of the prerequisite information or instructions to further requirements for the prerequisites to be installed.

9. During the import process:

- a. If you click Cancel during the import, the wizard will close and the automation pack will not be imported.
- **b.** If all prerequisites are passed, the wizard automatically continues to the next panel, which displays the status of the automation pack objects being imported.
- **c.** If objects are being removed as a result of the updated automation pack, click **OK** to confirm the removal of the objects from the automation pack and Cisco Process Orchestrator.

After the objects have been imported, the importing of the Core automation pack is complete. If other automation packs were selected to be imported, the wizard will relaunch for the next automation pack.

Repairing Cisco Process Orchestrator Installation

Repairing Cisco Process Orchestrator Installation

In cases where the Cisco Process Orchestrator installation has become corrupted due to lost DLL files or bad files, uninstall and then reinstall Cisco Process Orchestrator on the designated computer.

Uninstalling Cisco Process Orchestrator

This section provides the steps used to uninstall Cisco Process Orchestrator from your machine using the Windows Add or Remove Programs application. If a language pack is installed, then it will be uninstalled along with Cisco Process Orchestrator.

- 1. Choose Start > Control Panel > Add or Remove Programs.
- 2. Select Cisco Process Orchestrator and click Remove.
- 3. Click Yes on the confirmation dialog box.

Installing Cisco Process Orchestrator

Uninstalling Cisco Process Orchestrator