

How to Install McAfee ePolicy Orchestrator

Overview

Task. Install McAfee ePolicy Orchestrator (ePO).

Purpose. McAfee ePO is a web application for managing McAfee endpoint security software. It makes tasks like updating malware signature databases on endpoints easier to scale.

Conditions. You have the hardware, software, and licenses required (see below).

Hardware

4 processor cores, 8 GBs of RAM, 20 GBs of drive space, and 1 NIC.

Microsoft Windows Server 2019

<https://www.microsoft.com/en-US/evalcenter/evaluate-windows-server-2019?filetype=ISO>

Microsoft SQL Server 2019 Express

<https://www.microsoft.com/en-us/download/details.aspx?id=101064>

McAfee ePO

<https://www.mcafee.com/enterprise/en-us/downloads/my-products.html>

Standard. You were able to install Microsoft SQL Server 2019 Express and McAfee ePO.

Additional Information.

For SQL Server 2019 Express, download and open “SQL2019-SSEI-Expr” using the link provided on an Internet-connected computer. When prompted to select an installation type, select “Download Media.” Use this second download (i.e., the file named “SQLEXPRESS_x64_ENU”) to install Microsoft SQL Server 2019 on an air-gapped server.

You must register before downloading McAfee products using a Grant Number. Below is a link to the McAfee Enterprise Support ServicePortal Registration web page.

https://support.mcafee.com/webcenter/portal/supportportal/pages_home/registration

McAfee Endpoint Security 10.7.0 requires Version 21H1, Build 19043 (see below).

<https://kc.mcafee.com/corporate/index?page=content&id=KB85784>

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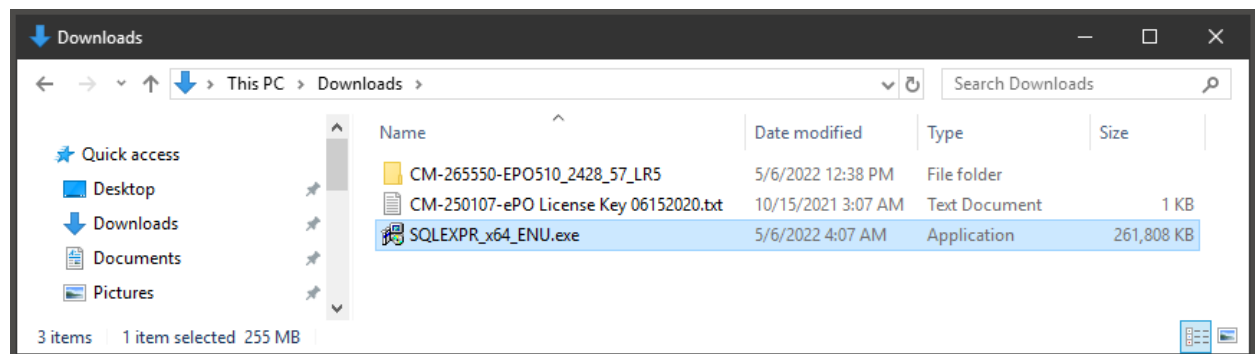
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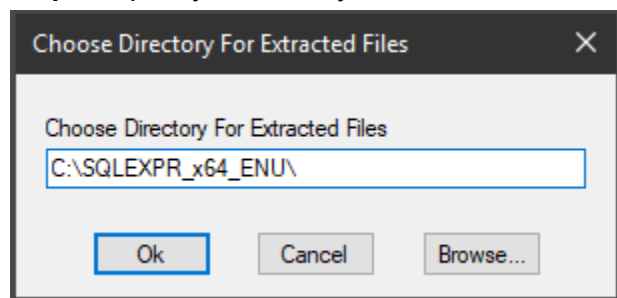
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Part 1: Install Microsoft SQL Server 2019

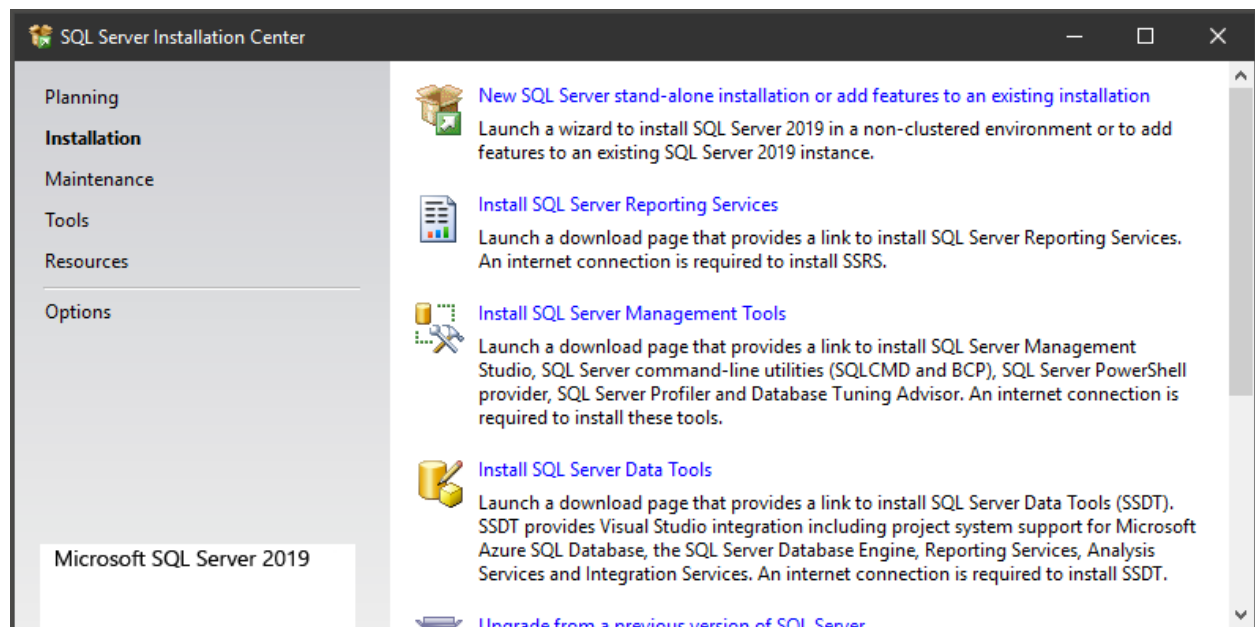
Step 1. Open “SQLEXPRESS_x64_ENU.exe.”



Step 2. Specify a directory to extract files to during the installation.

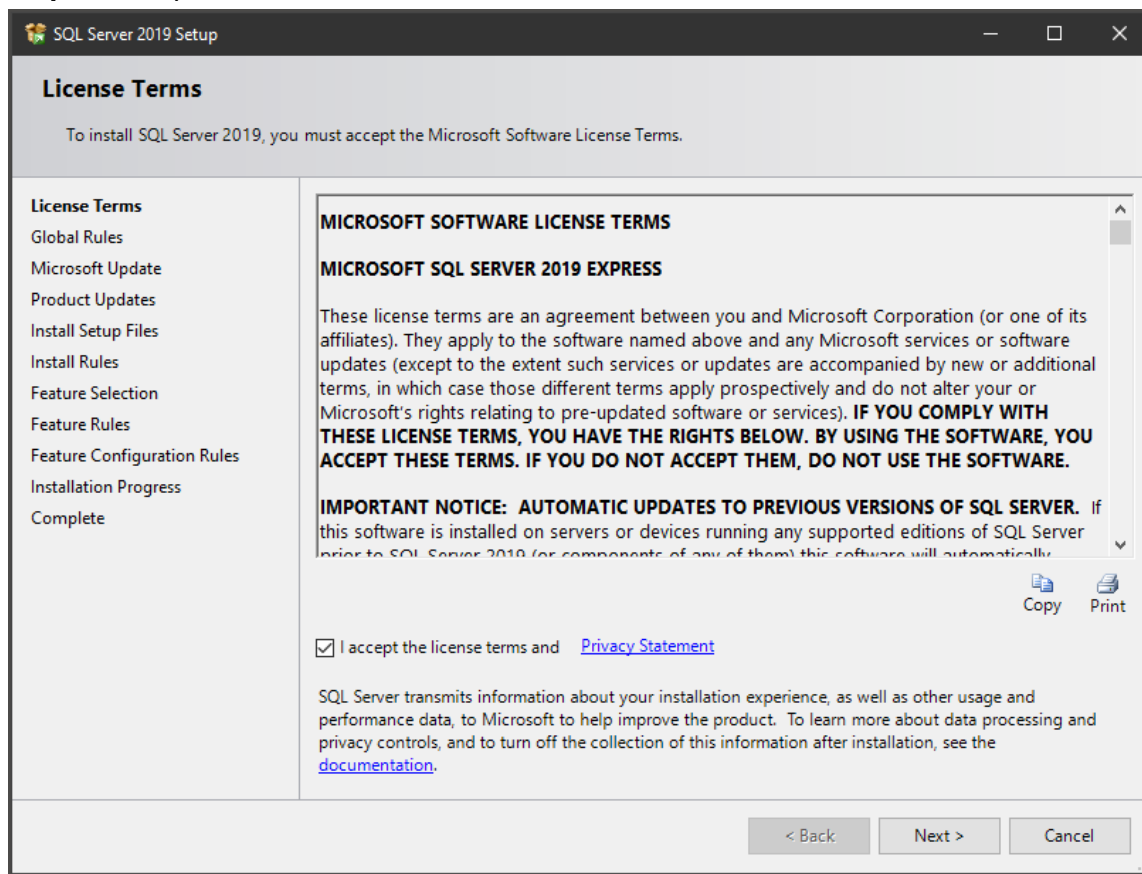


Step 3. Click “New SQL Server stand-alone installation or add features to an existing installation.”

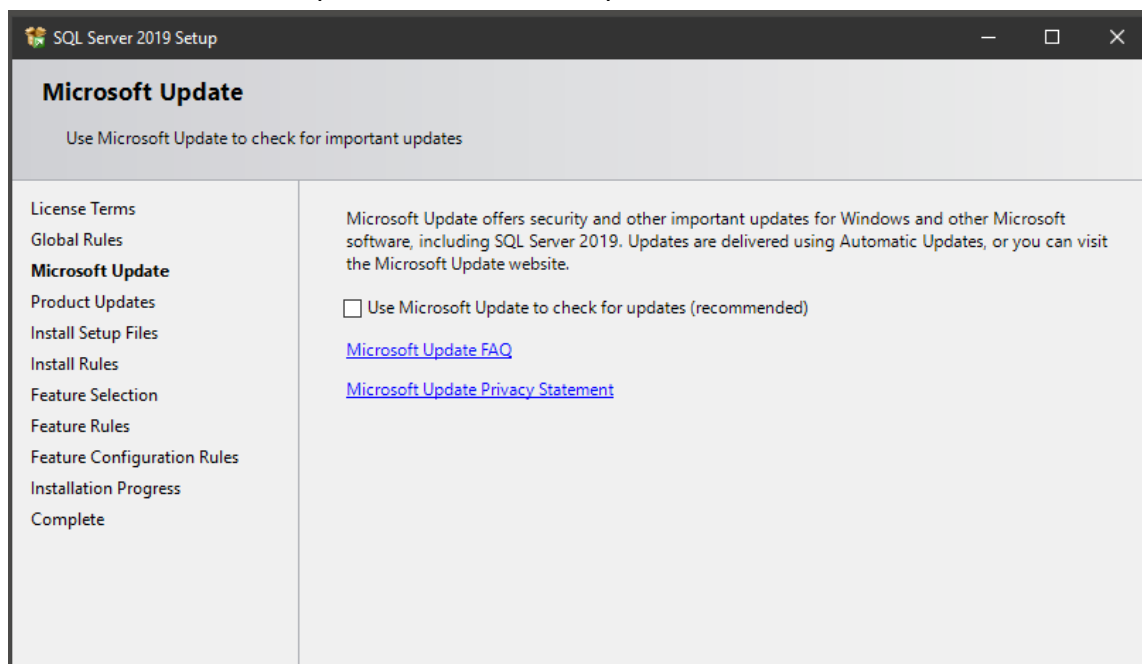


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Step 4. Accept the license terms and click “Next.”

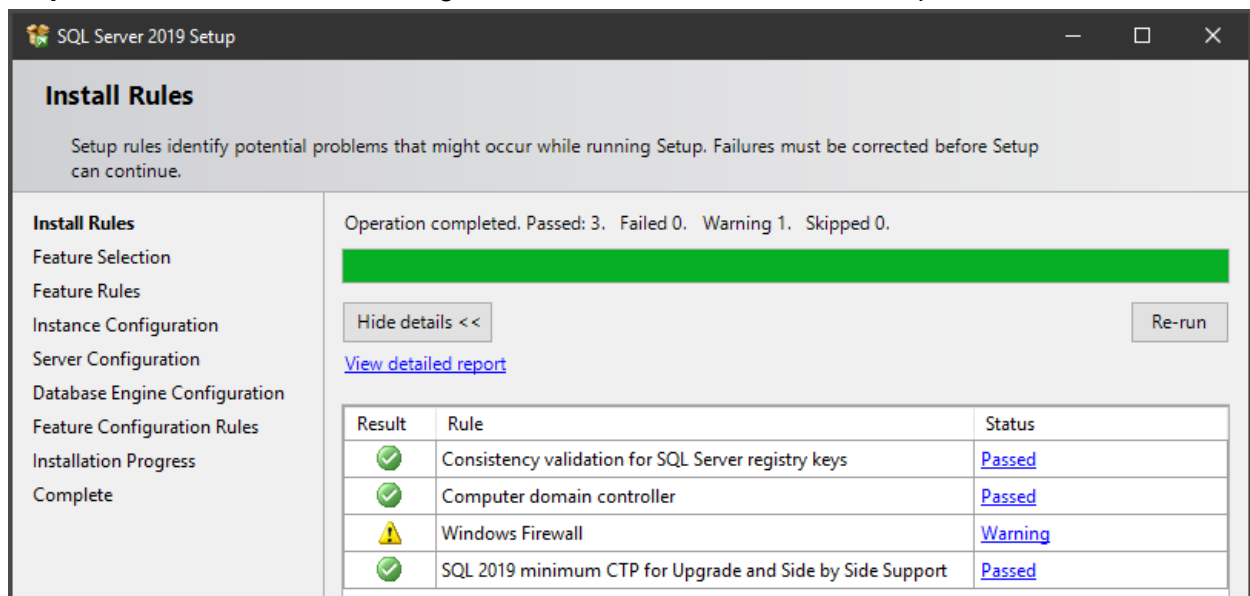


Step 5. Do not select “Use Microsoft Update to check for updates (recommended).” Click “Next” on both the “Microsoft Update” and “Product Update” menus.

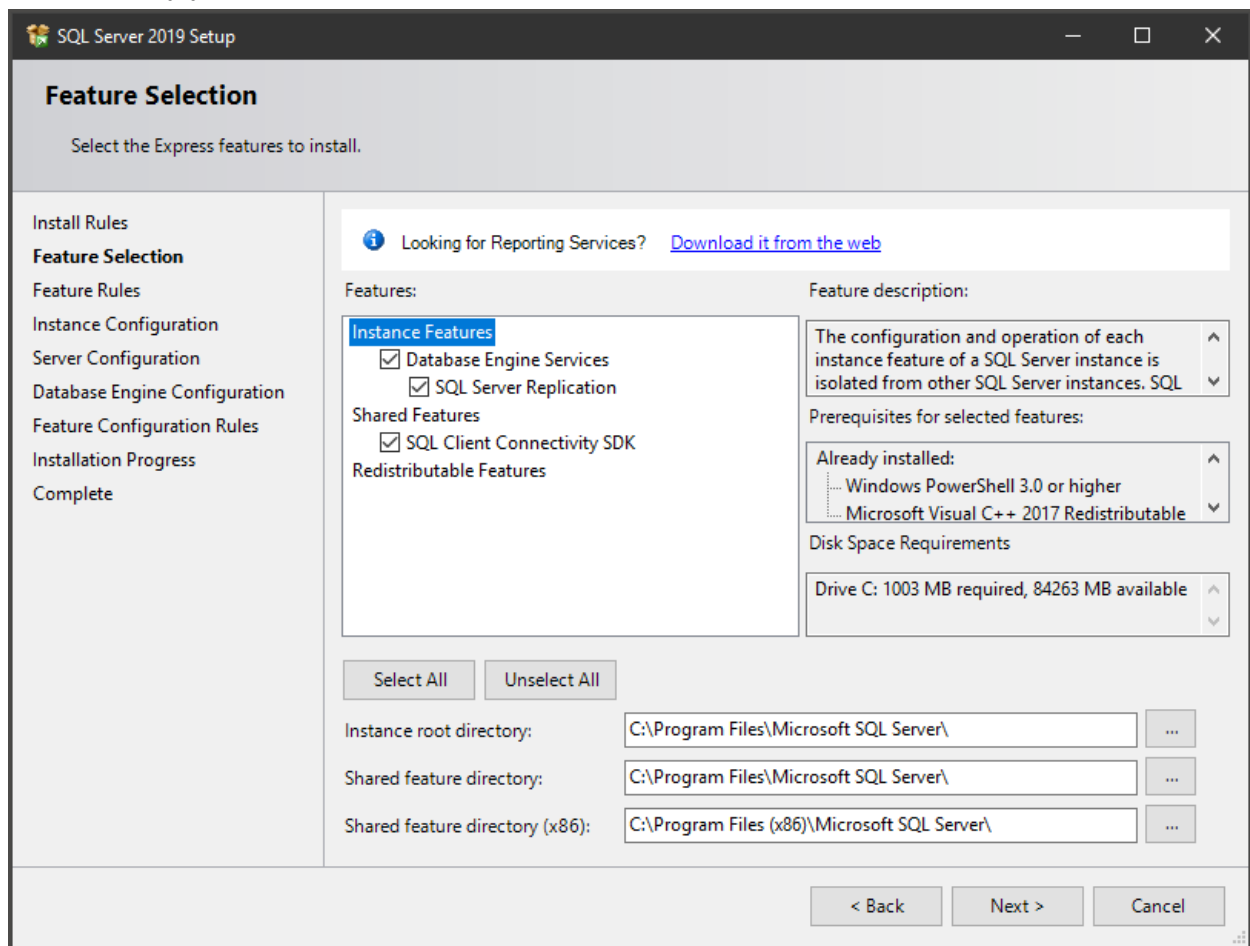


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Step 6. Click “Next” to acknowledge the results of the “Install Rules” report.



Step 7. Verify your “Feature Selection” options look like this. Then, click “Next.”



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Step 8. Verify your “Instance Configuration” options look like this. Then, click “Next.”

The screenshot shows the 'Instance Configuration' window of the SQL Server 2019 Setup. The left sidebar lists the installation steps: Install Rules, Feature Selection, Feature Rules, **Instance Configuration**, Server Configuration, Database Engine Configuration, Feature Configuration Rules, Installation Progress, and Complete. The main area has a title bar 'SQL Server 2019 Setup' and a subtitle 'Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.' Below this, there are two radio buttons: 'Default instance' (unselected) and 'Named instance:' (selected). The 'Named instance:' field contains 'SQLExpress'. Below this is the 'Instance ID:' field containing 'SQLEXPRESS'. The 'SQL Server directory:' is 'C:\Program Files\Microsoft SQL Server\MSSQL15.SQLEXPRESS'. The 'Installed instances:' section contains a table with columns: Instance Name, Instance ID, Features, Edition, and Version. The table is currently empty. At the bottom right are three buttons: '< Back', 'Next >', and 'Cancel'.

Instance Name	Instance ID	Features	Edition	Version
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Step 9. Verify your “Server Configuration” options look like this. Then, click “Next.”

The screenshot shows the 'Server Configuration' window of the SQL Server 2019 Setup. The left sidebar lists the installation steps: Install Rules, Feature Selection, Feature Rules, Instance Configuration, **Server Configuration**, Database Engine Configuration, Feature Configuration Rules, Installation Progress, and Complete. The main area has a title bar 'SQL Server 2019 Setup' and a subtitle 'Specify the service accounts and collation configuration.' Below this, there are two tabs: 'Service Accounts' (selected) and 'Collation'. The 'Service Accounts' tab contains a message: 'Microsoft recommends that you use a separate account for each SQL Server service.' Below this is a table with columns: Service, Account Name, Password, and Startup Type. The table has two rows: 'SQL Server Database Engine' with account 'NT Service\MSSQL\$SQL...' and startup type 'Automatic', and 'SQL Server Browser' with account 'NT AUTHORITY\LOCAL ...' and startup type 'Disabled'. Below the table is a checkbox labeled 'Grant Perform Volume Maintenance Task privilege to SQL Server Database Engine Service'. Below this is a paragraph: 'This privilege enables instant file initialization by avoiding zeroing of data pages. This may lead to information disclosure by allowing deleted content to be accessed.' and a link: '[Click here for details](#)'. At the bottom right are three buttons: '< Back', 'Next >', and 'Cancel'.

Service	Account Name	Password	Startup Type
SQL Server Database Engine	NT Service\MSSQL\$SQL...		Automatic
SQL Server Browser	NT AUTHORITY\LOCAL ...		Disabled

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Step 10. Verify your “Database Engine Configuration” options look like this. Then, click “Next.”

The screenshot shows the 'Database Engine Configuration' window in the SQL Server 2019 Setup. The window has a sidebar on the left with the following options: Install Rules, Feature Selection, Feature Rules, Instance Configuration, Server Configuration, **Database Engine Configuration**, Feature Configuration Rules, Installation Progress, and Complete. The main area has tabs for Server Configuration, Data Directories, TempDB, Memory, User Instances, and FILESTREAM. The 'Server Configuration' tab is active, showing options for authentication mode and administrators. The 'Authentication Mode' section has two radio buttons: 'Windows authentication mode' (selected) and 'Mixed Mode (SQL Server authentication and Windows authentication)'. Below this, there are fields for 'Enter password:' and 'Confirm password:' for the SQL Server system administrator (sa) account. The 'Specify SQL Server administrators' section has a list box with one entry, 'sa', and buttons for 'Add Current User', 'Add...', and 'Remove'. A note on the right states: 'SQL Server administrators have unrestricted access to the Database Engine.' At the bottom right, there are buttons for '< Back', 'Next >', and 'Cancel'.

SQL Server 2019 Setup

Database Engine Configuration

Specify Database Engine authentication security mode, administrators, data directories, TempDB, Max degree of parallelism, Memory limits, and Filestream settings.

Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Feature Configuration Rules
Installation Progress
Complete

Server Configuration | Data Directories | TempDB | Memory | User Instances | FILESTREAM

Specify the authentication mode and administrators for the Database Engine.

Authentication Mode

☒ Windows authentication mode
☐ Mixed Mode (SQL Server authentication and Windows authentication)

Specify the password for the SQL Server system administrator (sa) account.

Enter password:
Confirm password:

Specify SQL Server administrators

Add Current User | Add... | Remove

SQL Server administrators have unrestricted access to the Database Engine.

< Back | Next > | Cancel

Step 11. Click “Close.”

The screenshot shows the 'Complete' window in the SQL Server 2019 Setup. The window has a sidebar on the left with the following options: Install Rules, Feature Selection, Feature Rules, Instance Configuration, Server Configuration, Database Engine Configuration, Feature Configuration Rules, Installation Progress, and **Complete**. The main area has a heading 'Complete' and a message: 'Your SQL Server 2019 installation completed successfully.' Below this, there is a section titled 'Information about the Setup operation or possible next steps:' which contains a table with two columns: 'Feature' and 'Status'. The table lists the following features and their status: Database Engine Services (Succeeded), SQL Server Replication (Succeeded), SQL Browser (Succeeded), SQL Writer (Succeeded), SQL Client Connectivity SDK (Succeeded), and SQL Client Connectivity (Succeeded). Below the table, there is a 'Details:' section with a text box containing the message 'Install successful.' At the bottom right, there is a button for 'Close'.

SQL Server 2019 Setup

Complete

Your SQL Server 2019 installation completed successfully.

Install Rules
Feature Selection
Feature Rules
Instance Configuration
Server Configuration
Database Engine Configuration
Feature Configuration Rules
Installation Progress
Complete

Information about the Setup operation or possible next steps:

Feature	Status
Database Engine Services	Succeeded
SQL Server Replication	Succeeded
SQL Browser	Succeeded
SQL Writer	Succeeded
SQL Client Connectivity SDK	Succeeded
SQL Client Connectivity	Succeeded

Details:

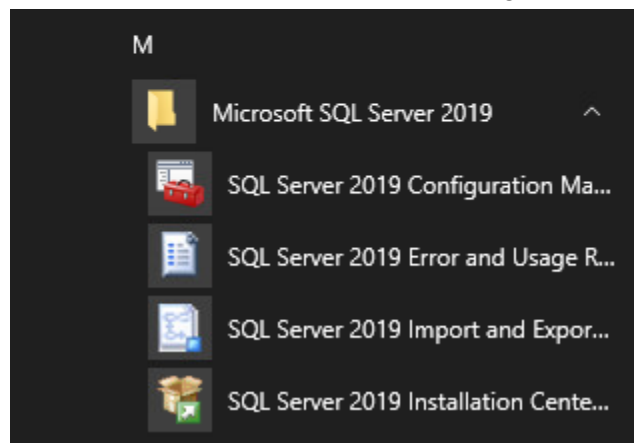
Install successful.

Close

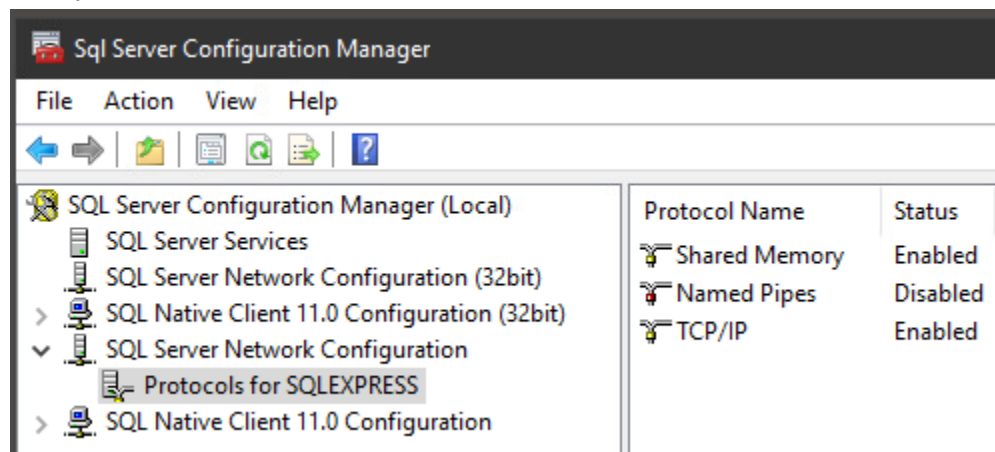
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Part 2: Configure Microsoft SQL Server 2019

Step 1. Open “SQL Server 2019 Configuration Manager.”

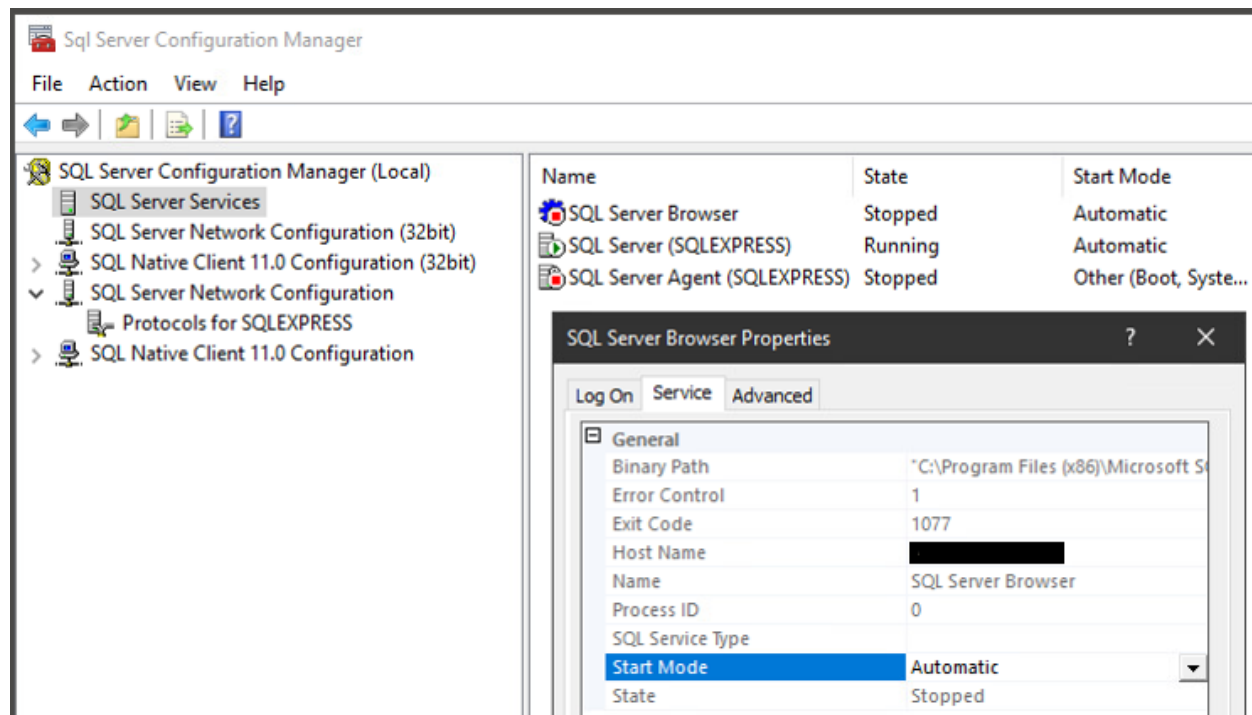


Step 2. Expand “SQL Server Network Configuration,” click “Protocols for SQLEXPRESS,” right-click “TCP/IP,” and select “Properties.” Under the “General” tab, set “Enabled” to “Yes.” Under the “IP Addresses” tab, for “IPAll” (scroll to the bottom) set “TCP Port” to “1433” (click “Apply” when done).

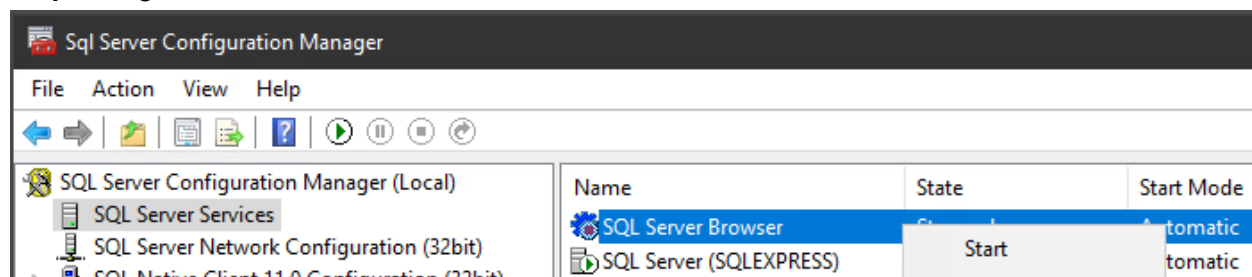


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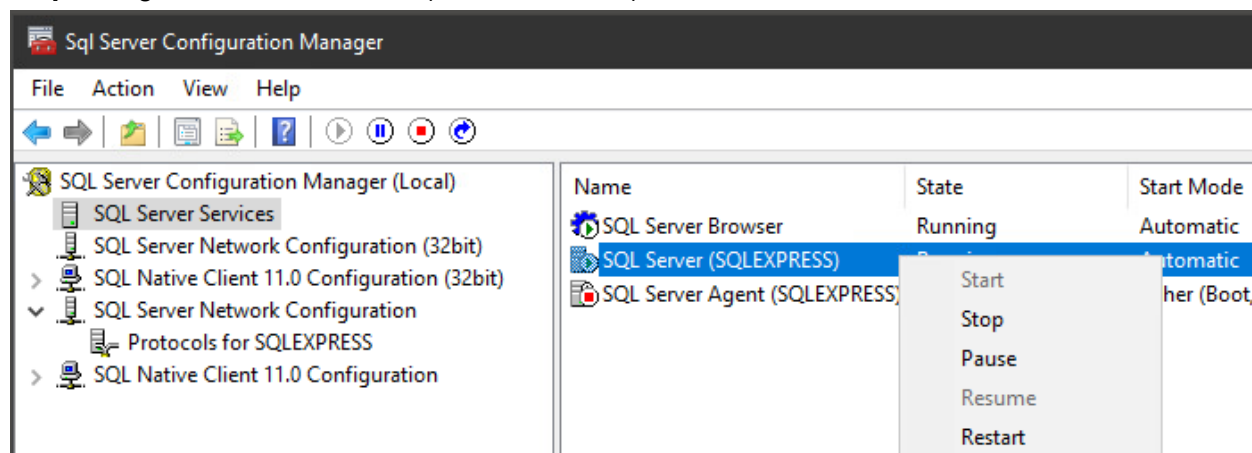
Step 3. Click “SQL Server Services,” right-click “SQL Server Browser,” click the “Service” tab, and set the “Start Mode” to be “Automatic” (click “Apply” when done).



Step 4. Right-click “SQL Server Browser” and click “Start.”



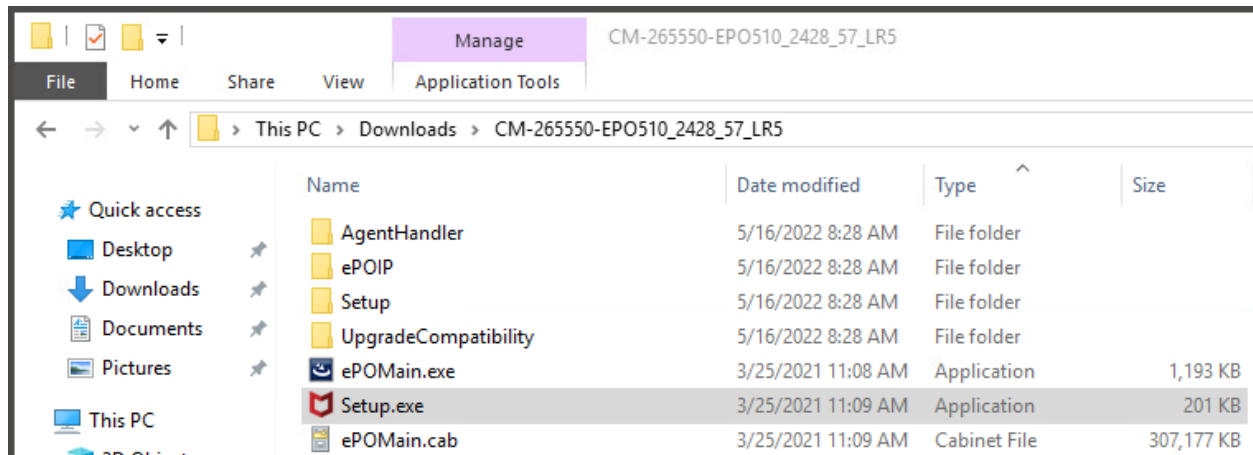
Step 5. Right-click “SQL Server (SQLEXPRESS)” and click “Restart.”



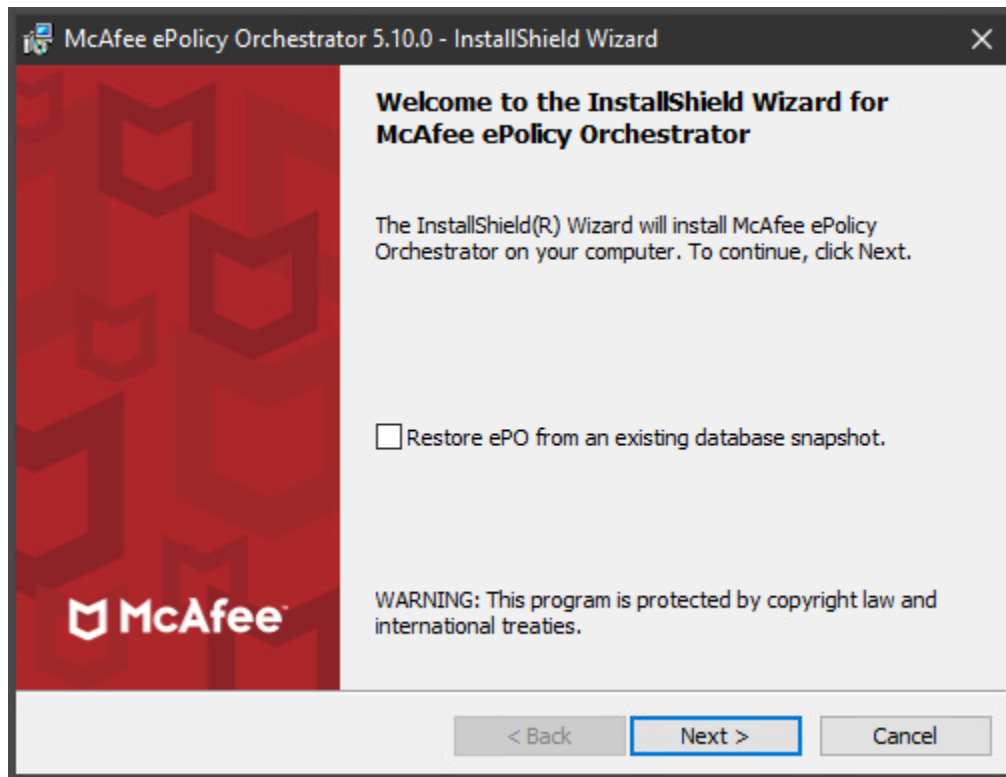
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Part 3: Install McAfee ePO

Step 1. Click “Setup.exe.”

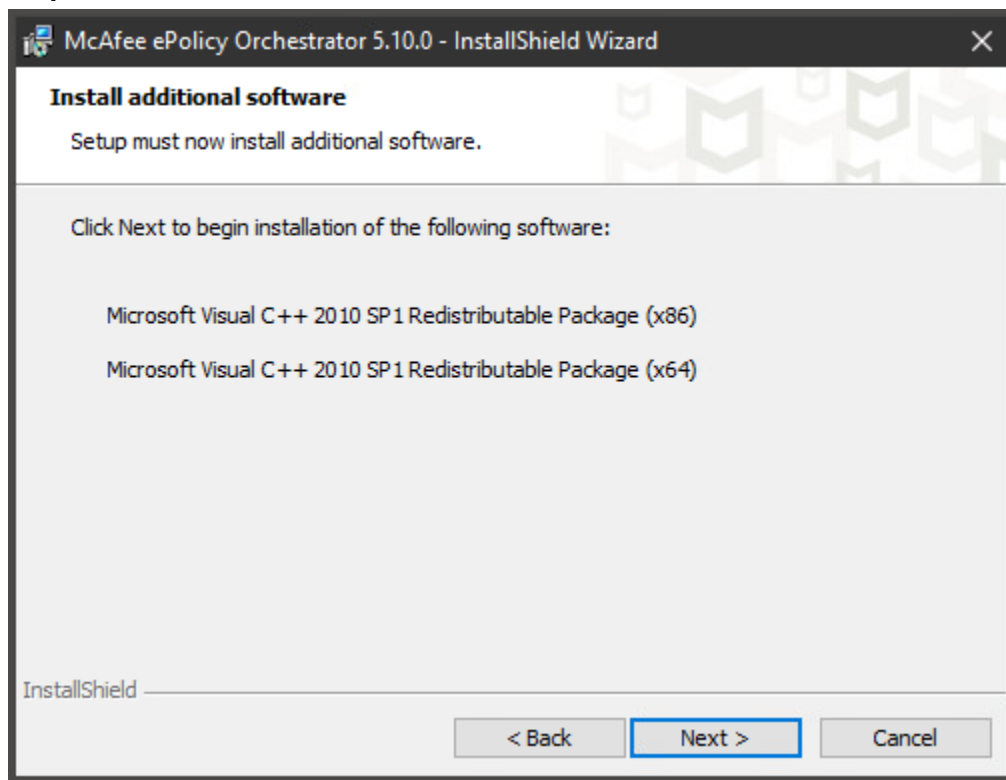


Step 2. Click “Next.”

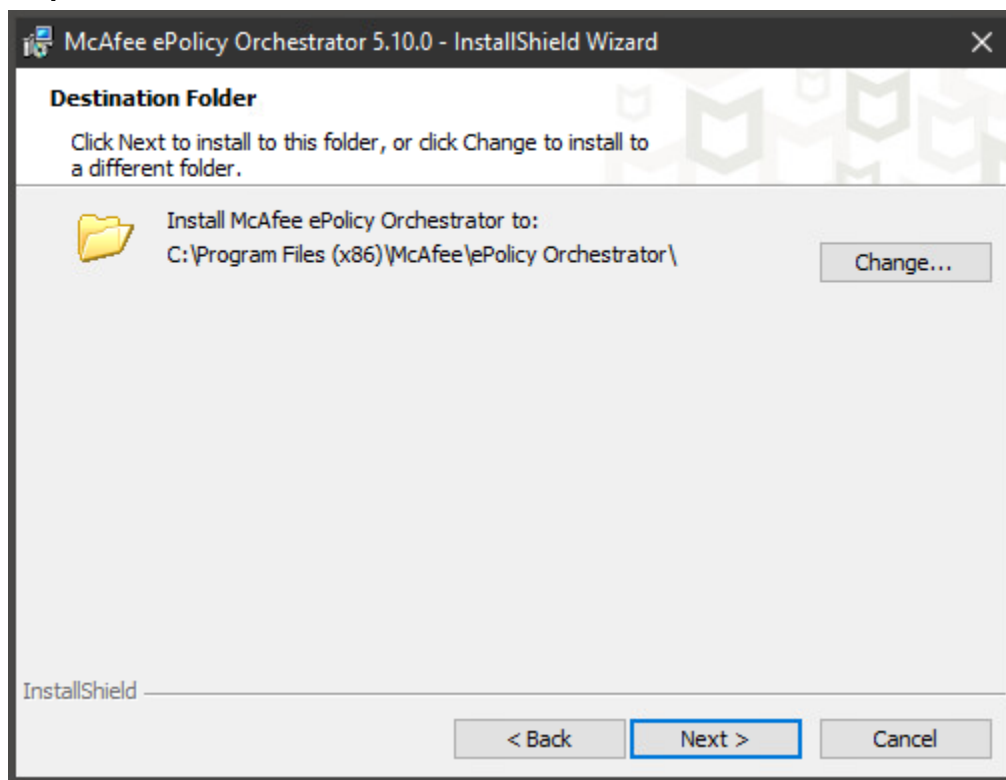


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Step 3. Click "Next."

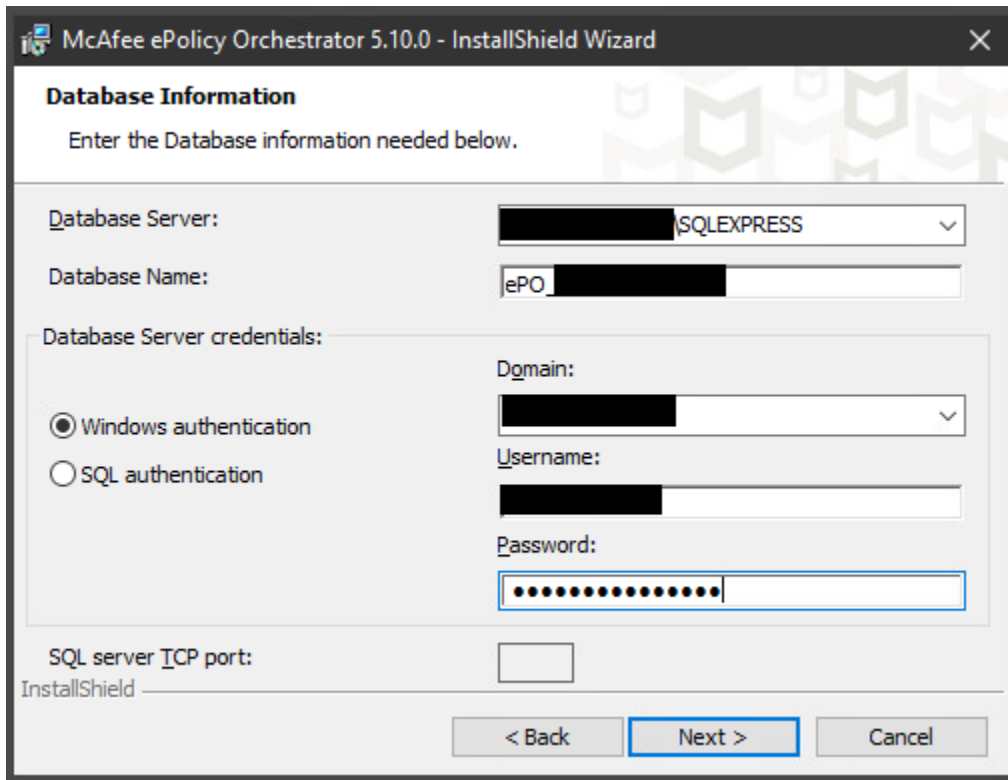


Step 4. Click "Next."



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Step 5. Set values for the “Database Server,” “Domain,” “Username,” and “Password” fields (these should correspond to the SQL server configured during Part 2). Click “Next” when done.

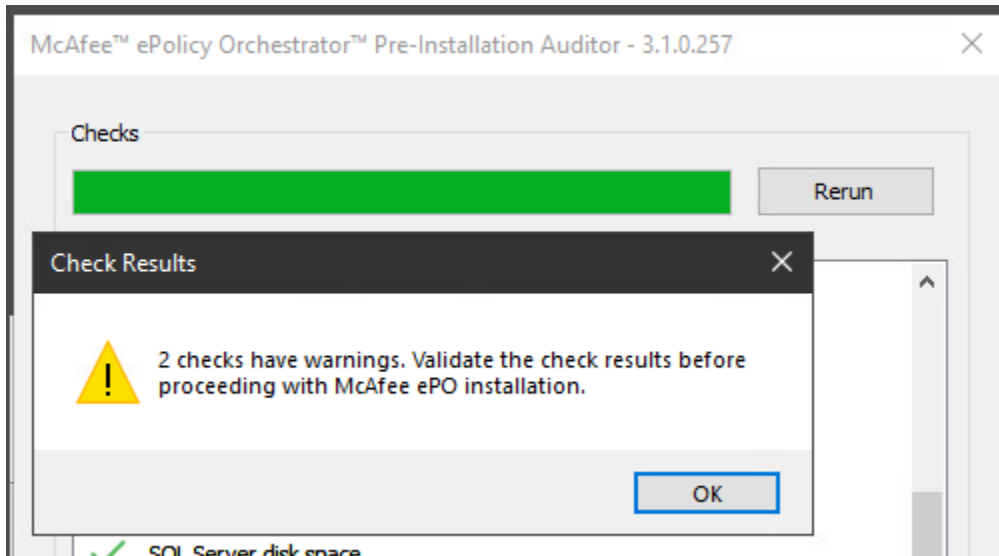


The screenshot shows the 'Database Information' screen of the McAfee ePolicy Orchestrator 5.10.0 - InstallShield Wizard. The window title is 'McAfee ePolicy Orchestrator 5.10.0 - InstallShield Wizard'. The main heading is 'Database Information' with a sub-instruction: 'Enter the Database information needed below.' The form contains the following fields and options:

- Database Server:** A dropdown menu showing 'SQLEXPRESS'.
- Database Name:** A text field containing 'ePO' followed by a masked area.
- Database Server credentials:** A section with two radio buttons: 'Windows authentication' (selected) and 'SQL authentication'.
- Domain:** A dropdown menu showing a masked domain name.
- Username:** A text field containing a masked username.
- Password:** A password field with masked characters.
- SQL server TCP port:** An empty text field.

At the bottom, there are three buttons: '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.

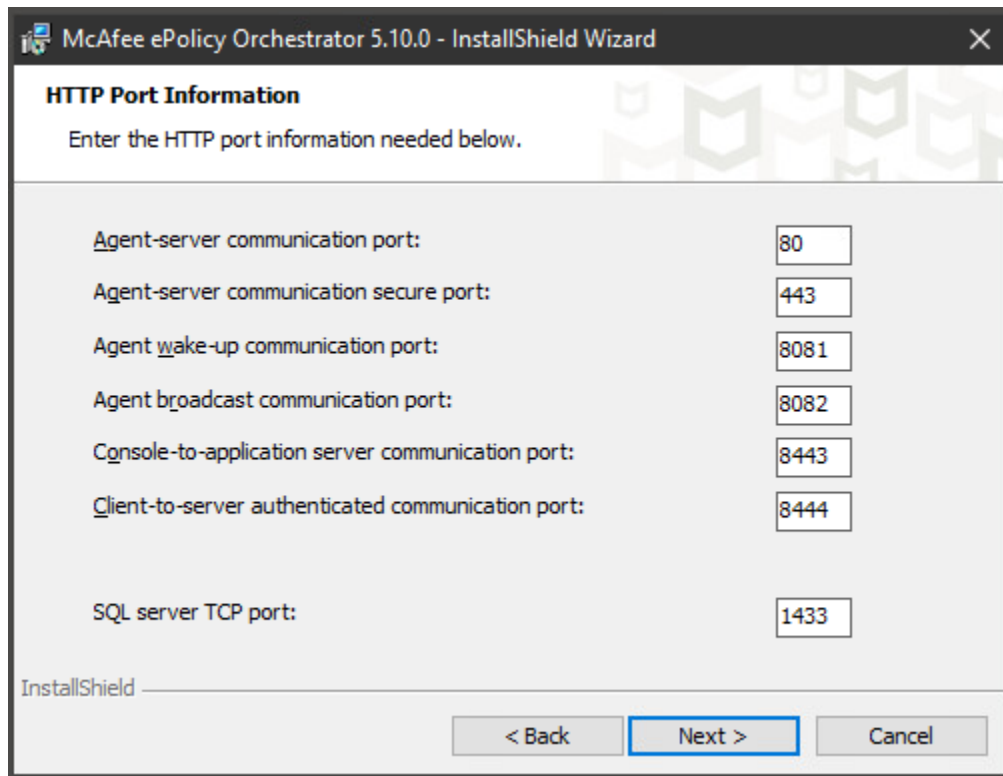
Step 6. Click “OK” if there are any warnings given by the “Pre-Installation Auditor” (click “Finish” when done).



The screenshot shows the 'McAfee ePolicy Orchestrator Pre-Installation Auditor - 3.1.0.257' window. The main window has a 'Checks' section with a green progress bar and a 'Rerun' button. A 'Check Results' dialog box is open in the foreground, displaying a yellow warning icon and the text: '2 checks have warnings. Validate the check results before proceeding with McAfee ePO installation.' The dialog has an 'OK' button. In the background, a list of checks is visible, including 'SQL Server disk space' with a green checkmark.

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Step 7. Click “Next.”



HTTP Port Information

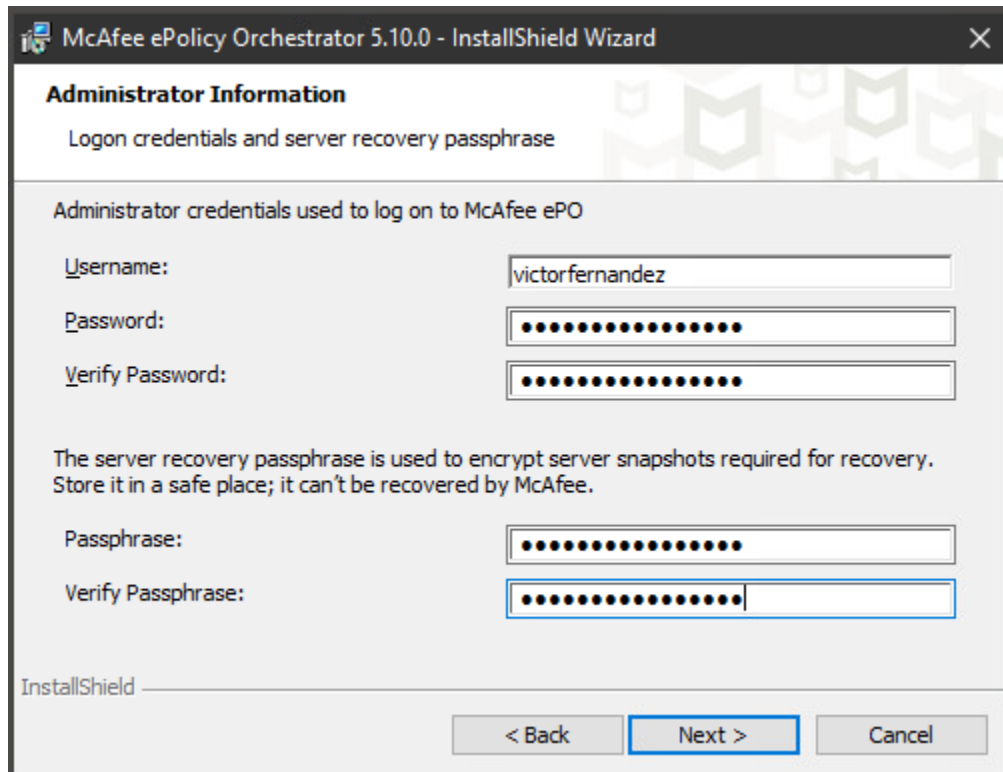
Enter the HTTP port information needed below.

Agent-server communication port:	80
Agent-server communication secure port:	443
Agent wake-up communication port:	8081
Agent broadcast communication port:	8082
Console-to-application server communication port:	8443
Client-to-server authenticated communication port:	8444
SQL server TCP port:	1433

InstallShield

< Back Next > Cancel

Step 8. Specify administrator and server recovery credentials (click “Next” when done).



Administrator Information

Logon credentials and server recovery passphrase

Administrator credentials used to log on to McAfee ePO

Username: victorfernandez

Password:

Verify Password:

The server recovery passphrase is used to encrypt server snapshots required for recovery. Store it in a safe place; it can't be recovered by McAfee.

Passphrase:

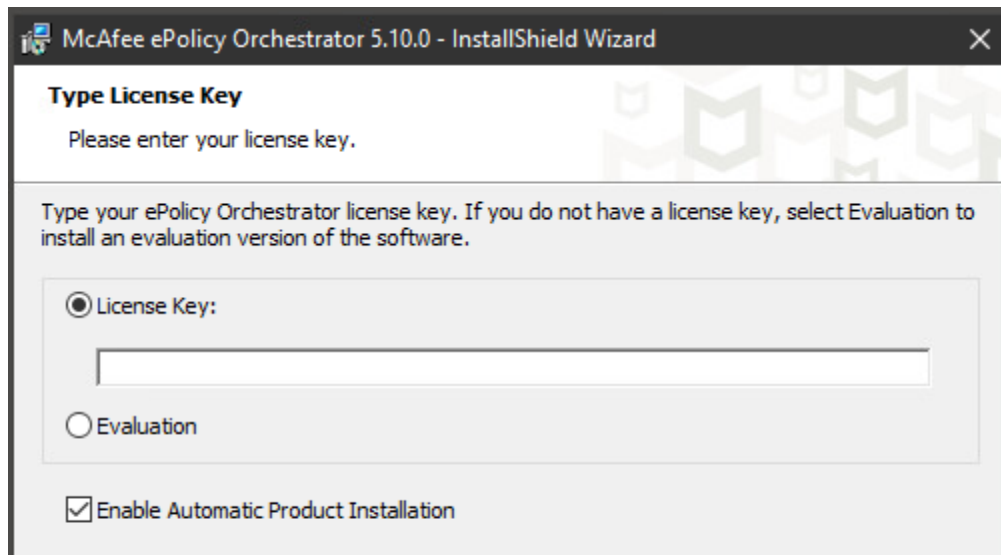
Verify Passphrase:

InstallShield

< Back Next > Cancel

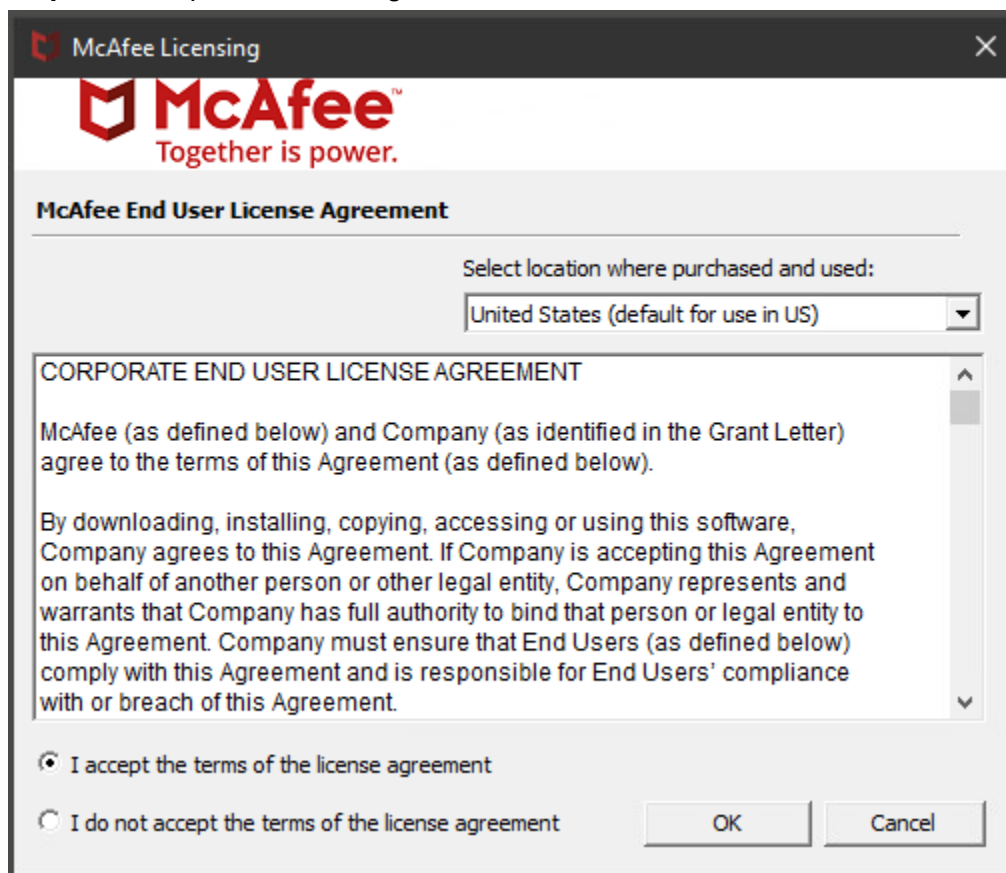
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Step 9. Enter the “License Key” (click “Next” when done).



The screenshot shows the 'Type License Key' window of the McAfee ePolicy Orchestrator 5.10.0 - InstallShield Wizard. The window has a title bar with the McAfee logo and the text 'McAfee ePolicy Orchestrator 5.10.0 - InstallShield Wizard'. The main content area has a header 'Type License Key' and a sub-header 'Please enter your license key.' Below this, there is a text box for the license key. To the left of the text box are two radio buttons: 'License Key:' (selected) and 'Evaluation'. At the bottom, there is a checkbox labeled 'Enable Automatic Product Installation' which is checked.

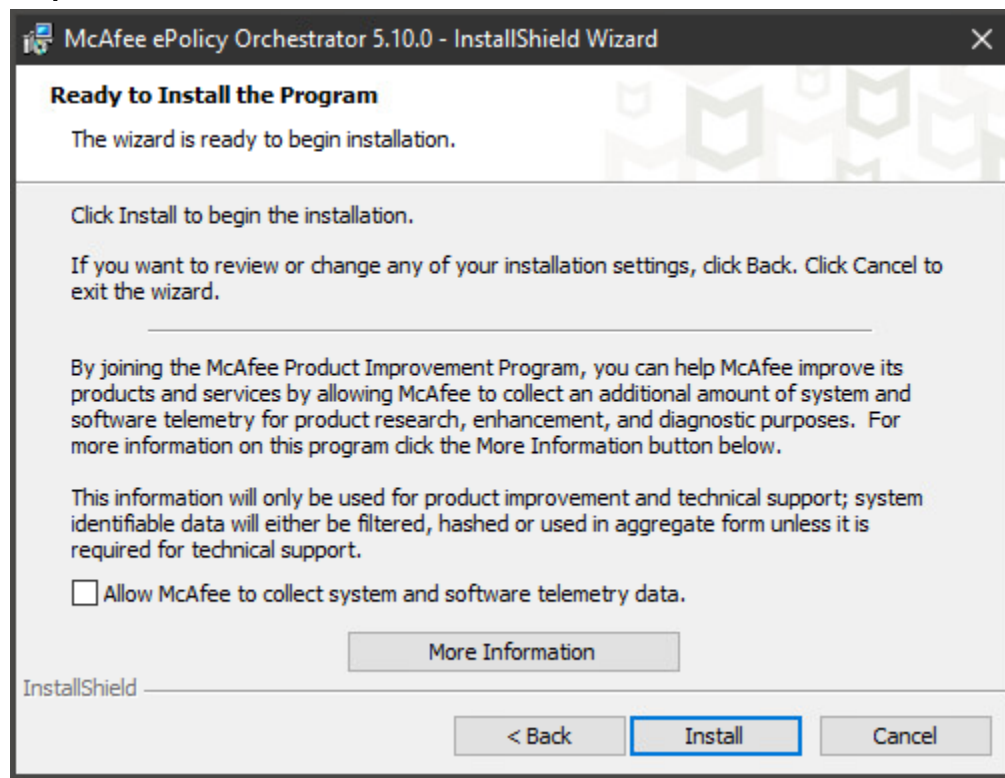
Step 10. Accept the license agreement and click “OK.”



The screenshot shows the 'McAfee Licensing' window. The title bar says 'McAfee Licensing'. The main content area features the McAfee logo and the tagline 'Together is power.' Below this is the section 'McAfee End User License Agreement'. There is a dropdown menu labeled 'Select location where purchased and used:' with 'United States (default for use in US)' selected. Below the dropdown is a large text area containing the 'CORPORATE END USER LICENSE AGREEMENT' text. At the bottom, there are two radio buttons: 'I accept the terms of the license agreement' (selected) and 'I do not accept the terms of the license agreement'. To the right of these radio buttons are 'OK' and 'Cancel' buttons.

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Step 11. Click “Install.”



Step 12. Check “Yes, I want to launch McAfee ePolicy Orchestrator now” and click “Finish.”

