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# AUTOMATION ANYWHERE ENTERPRISE 11 LTS

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## Control Room-Installation Guide

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Document Version	1.1
Date of Publication	03-05-2018
Update(s) to Document Edition	Matrix for creating database, tables, and services

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# 1 Document Purpose

This document for Automation Anywhere Enterprise 11.LTS with product version 11.1.0.0 provides information about the prerequisites and a step-by-step guide to installing the Automation Anywhere Enterprise Control Room.

## 1.1 Intended Audience

This guide is intended for a system administrator and/or anyone else responsible for the installation and configuration of Automation Anywhere Enterprise Control Room. Depending on the type of installation, the intended audiences for this guide are described in the following table.

Installation type	Audience
Express Installation	<ul style="list-style-type: none"><li>• Internal Customers (Sales, Services, Product Managers)</li><li>• External Customers (Partners)</li></ul>
Custom Installation	<ul style="list-style-type: none"><li>• IT Admins</li><li>• Customer Success Representatives</li><li>• Solution Architects</li><li>• Automation Experts</li></ul>

## 2 Prerequisites

This chapter helps you determine whether your system has the required hardware and software to install Automation Anywhere Enterprise Control Room. Before installing the Enterprise Control Room, verify that your environment supports the requirements mentioned in the following sections.

### 2.1 Software Requirements

Software	Minimum requirements
Operating System	Windows Server 2012 R2
.NET Framework	Microsoft .NET 4.6
Database Management System	Express Setup - Microsoft SQL Server 2014 SP1 Custom Setup – Microsoft SQL Server 2012
Web browser	<ul style="list-style-type: none"> <li>• Chrome: Versions 57 and above</li> <li>• Internet Explorer: Versions 10 and 11</li> <li>• Firefox: Versions 52 and above</li> </ul>

NOTE: You must install the following separately if not installed,

- Microsoft .NET Framework 4.6
- Microsoft SQL Server 2014 SP1 (*Applicable to Express installation only*)

#### 2.1.1 Supported Operating Systems

*(32-bit and 64-bit OS versions are supported.)*

Operating System	Edition
Microsoft Windows Server 2016	Standard and Datacenter Edition
Microsoft Windows Server 2012 R2	Standard and Datacenter Edition

#### 2.1.2 Supported Microsoft SQL Server

SQL Server
Microsoft SQL Server 2017
Microsoft SQL Server 2016
Microsoft SQL Server 2014 SP1
Microsoft SQL Server 2012

## 2.2 Hardware Requirements

Hardware	Minimum requirements
Processor	8 core Intel Xeon Processor
RAM	16 GB
Disk Space	500 GB

## 2.3 Version Control Integration (If enabled)

- Subversion\*:

*\* Subversion is provided by the Apache Subversion software project.*

Subversion	SVN Server
Subversion 1.9.7	Visual SVN Server 3.6.x
Subversion 1.8.15	Visual SVN Server 3.3.x
Subversion 1.7.2	Visual SVN Server 2.5.2

**NOTE:** You can configure your own instance of Subversion, although Visual SVN recommend.

- SVN repository with an administrator account

## 3 Installation

### 3.1 Installing Automation Anywhere Enterprise Control Room

Use the Automation Anywhere Enterprise 11.1 setup file to install Automation Anywhere Control Room. During the process of installation, the software dependencies or any prerequisites that might be missing are also installed.

**NOTE:** Ensure you run the setup and install Automation Anywhere Control Room in **Run as administrator** mode.

There are two modes of installing Control Room – **Custom** and **Express**. While the Express mode automatically installs all components with the default settings, the Custom mode allows you to configure and install as per your requirement.

### 3.2 Express Installation

The Express mode of installation sets up Control Room using default values and automatically configures the required parameters for different components, such as the database, services, PostgreSQL (metadata database), and Bot Insight components. It enables Control Room admin to create Non-Active Directory users.

This installation type can be done for showcasing a demo to customers as it allows you to install the product as quickly as possible.

**NOTE:** This method of installation is recommended for a non-production environment only.

**IMPORTANT:** Before you begin installation, save your work and close all open applications.

#### 3.2.1 Default Parameters

The following parameters are installed by default:

##### 3.2.1.1 SQL Server

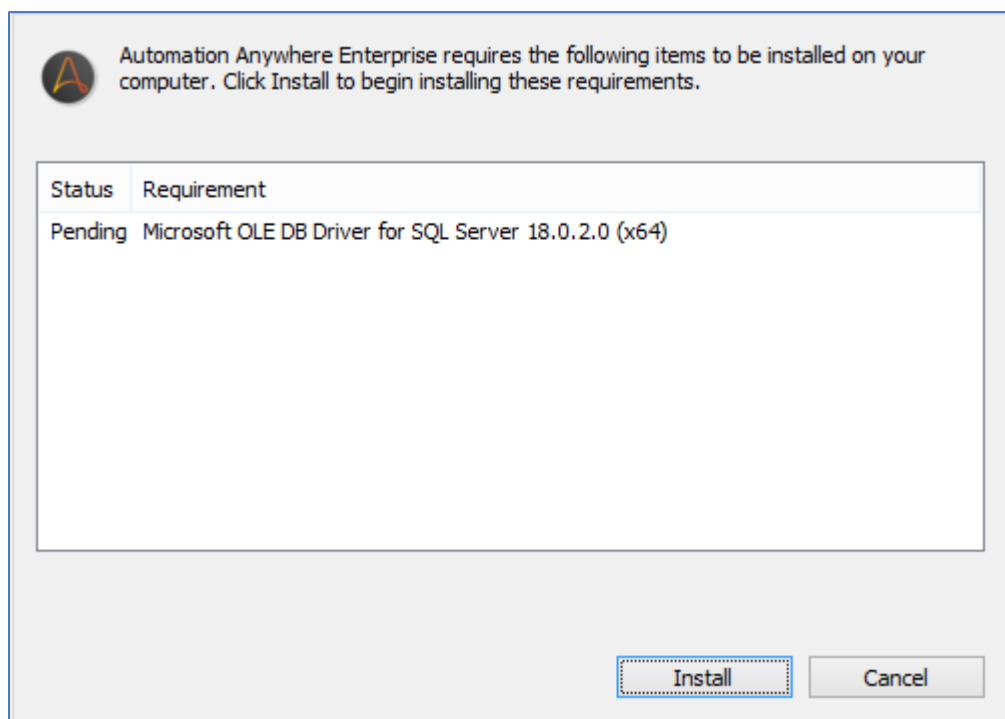
Parameter	Default value
SQL database instance	SQLEXPRESS
Authentication type	Windows authentication
Control Room database	CRDB-NEW
Bot Insight database	BotInsight
Port	1433

### 3.2.1.2 PostgreSQL Server

Parameter	Default value
PostgreSQL Server database	zoomdata
PostgreSQL Server username	postgres
Port	5432

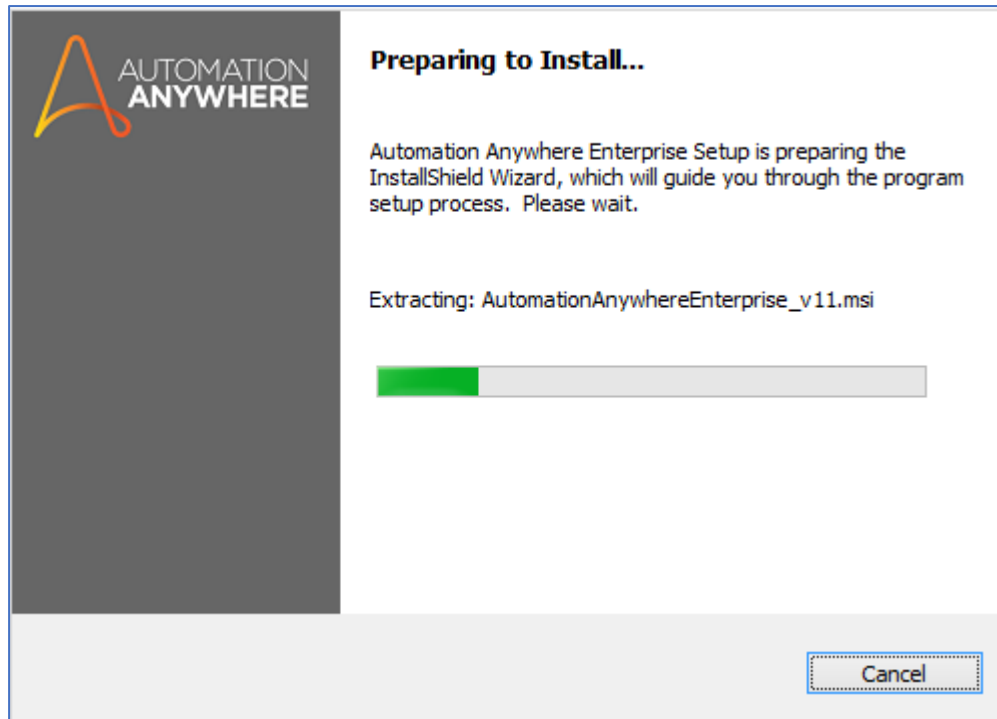
To install Automation Anywhere Control Room in Express mode, perform the following steps.

1. Extract all files from **AAE\_11\_LTS\_Setup.zip** file.
2. Run the **AAE\_MSSQL\_Express\_2014SP1.exe** to install the default SQL Server instance that is required for Express mode of installation.  
**NOTE:** This is a pre-requisite to run the 11 LTS Control Room installer.
3. Double click the Automation Anywhere Enterprise 11.1 setup file.
4. The installer checks whether **Microsoft OLE DB Driver for SQL Server** is installed. If not, the following message is displayed:

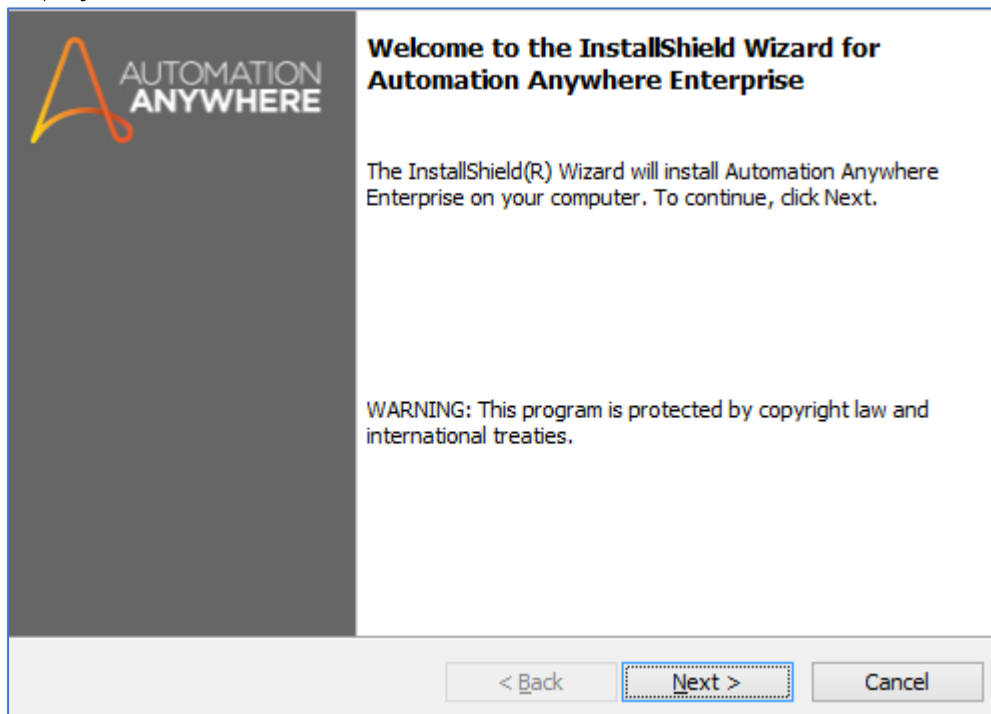


- a. Click **Install**. This automatically installs the component.

- b. Once it is installed, the Preparing to install page is launched:

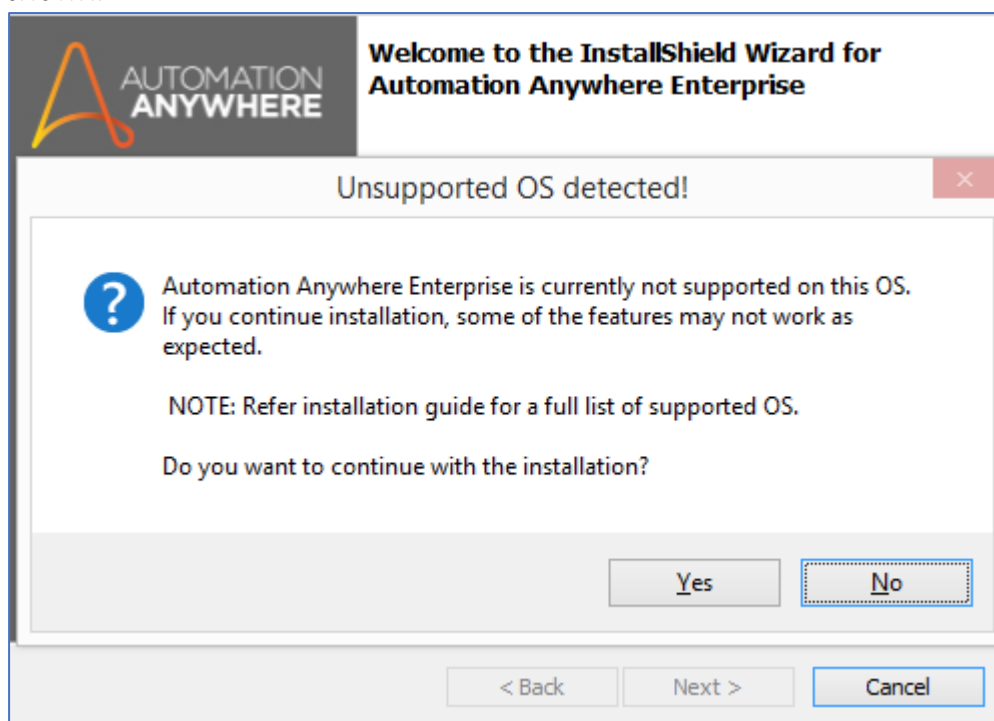


5. Once the extraction is done, the Automation Anywhere Enterprise setup wizard Welcome page is displayed.

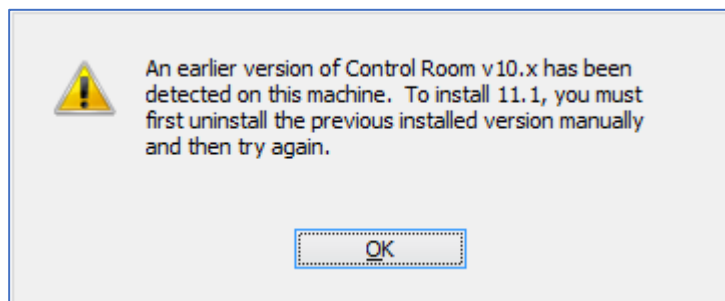




- a. If the installer detects an unsupported Operating System version, the following message is shown:

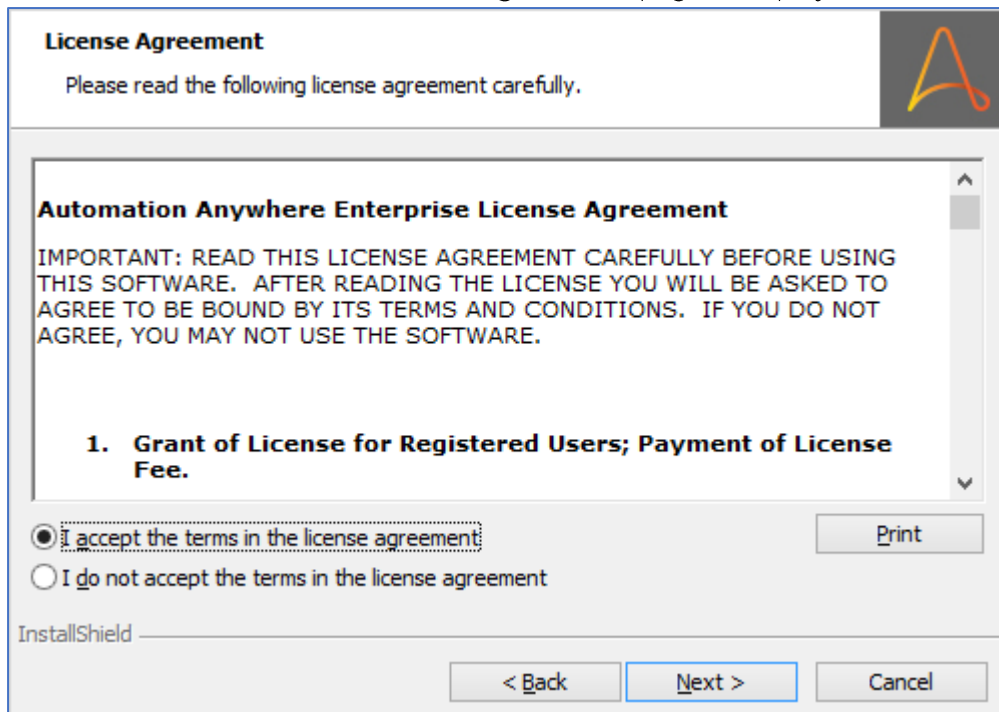


- Click **Yes** to continue with the installation. This launches the **Welcome** page.
  - Click **No** to exit the installation. This launches the **Finish** page.
- b. The installer now checks whether another version of Control Room is installed:
- If the installer detects another version of Control Room, the following message is shown:

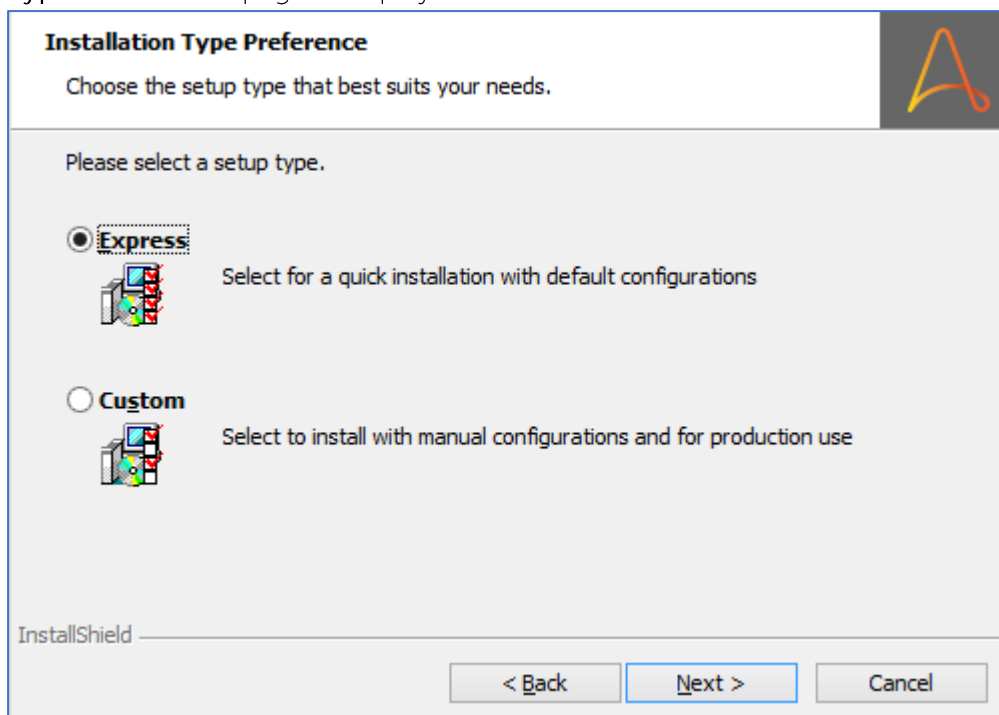


- Click **OK**. This launches the **Finish** page. You should uninstall the previous version and run the setup again.

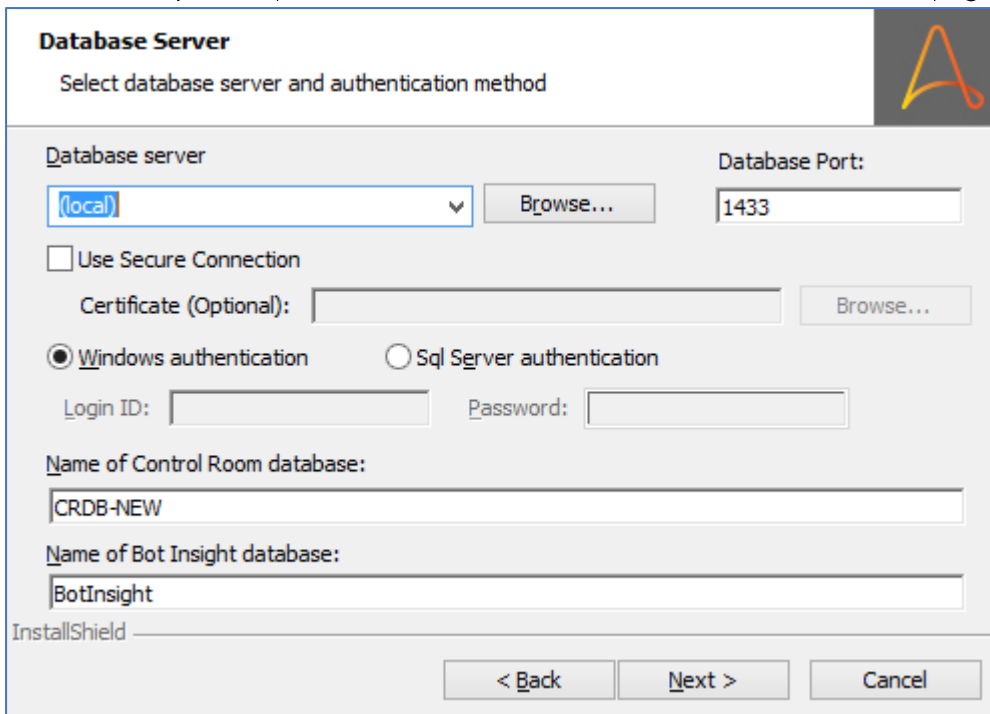
6. Click the Next button. The License Agreement page is displayed.



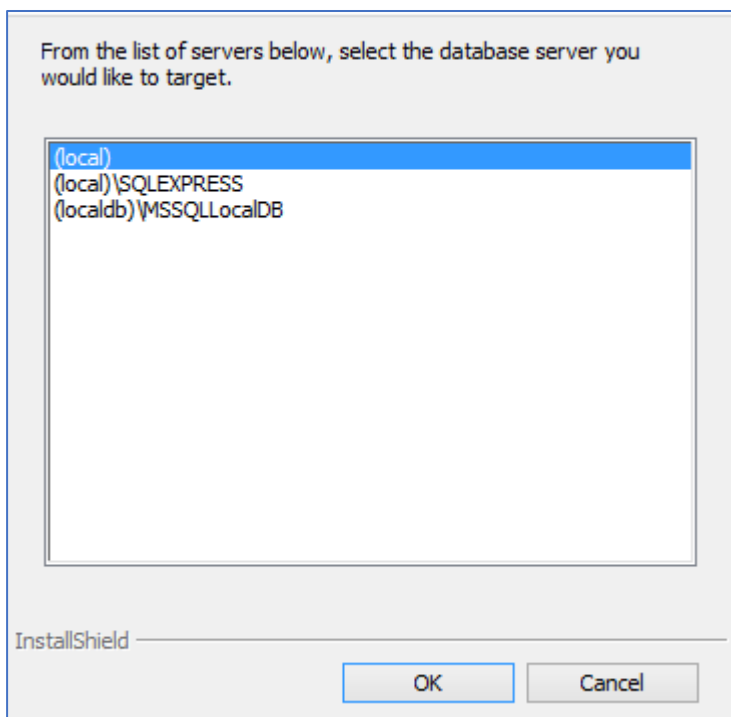
7. Carefully read the license agreement, accept the agreement, and click Next button. The Installation Type Preference page is displayed.



8. Select the Express option and click **Next** button. The Database Server page is displayed:



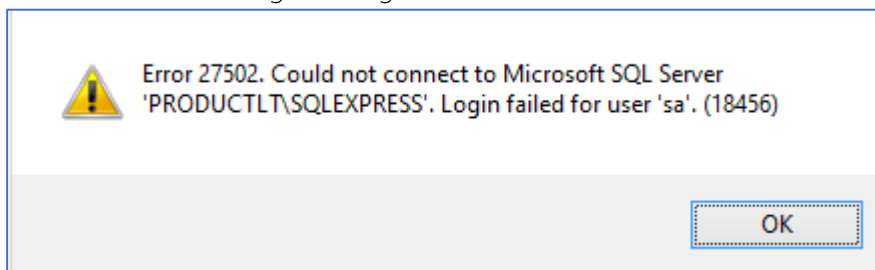
9. On the Database Server page, do the following.
- Database server that you are installing to: Click **Browse** button to select the SQL server instance where the CR database will be created.



Alternately, type a database server name or select one from the list and/or suffix with server instance name.

- Database Port:** By default, this is set to 1433. You can also choose to specify the port number which is configured for the SQL server instance.

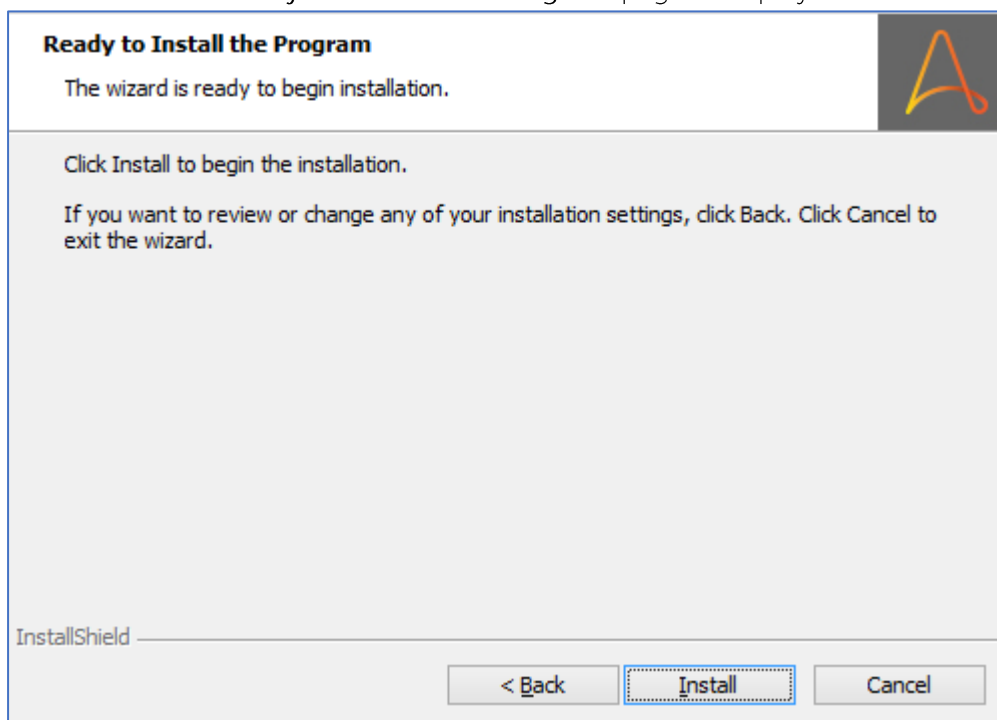
- **Use Secure Connection:** If you select **Use Secure Connection** then you must ensure that CA certificate is imported in the next field.  
NOTE: The host name in certificate and database connection must be same.
- **Certificate:** This option is enabled when you select secure connection. Browse to select a CA certificate.
- **Windows Authentication:** This option is selected by default. This allows you to connect to SQL Server using windows authentication.
- **SQL Server authentication:** Select this option to use SQL server Authentication to connect to the database. You must provide correct username and password for SQL Authentication. On invalid credentials, following message is shown:



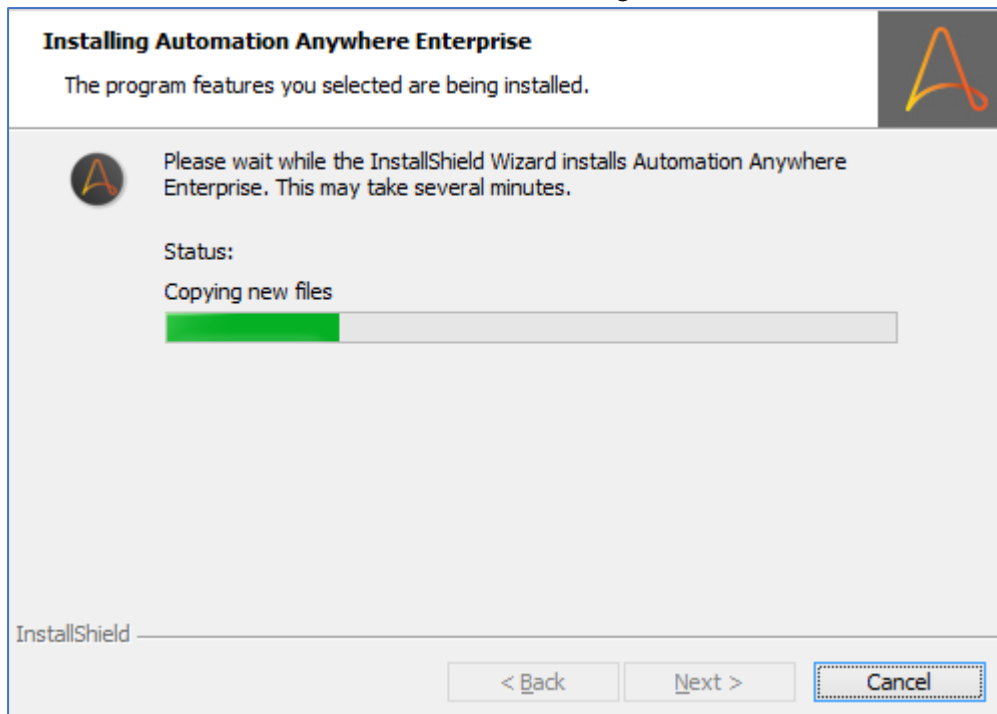
. Refer [Matrix for creating database, tables, and services](#) for details.

- **Name of Control Room database:** Type the name for the Control Room database.
- **Name of Bot Insight database:** Type the name for the Bot Insight database. This database is used to store the metadata of Bot Insight dashboards.  
NOTE: If the database (Control Room and/or Bot Insight) does not exist, the installer will create a new one automatically.

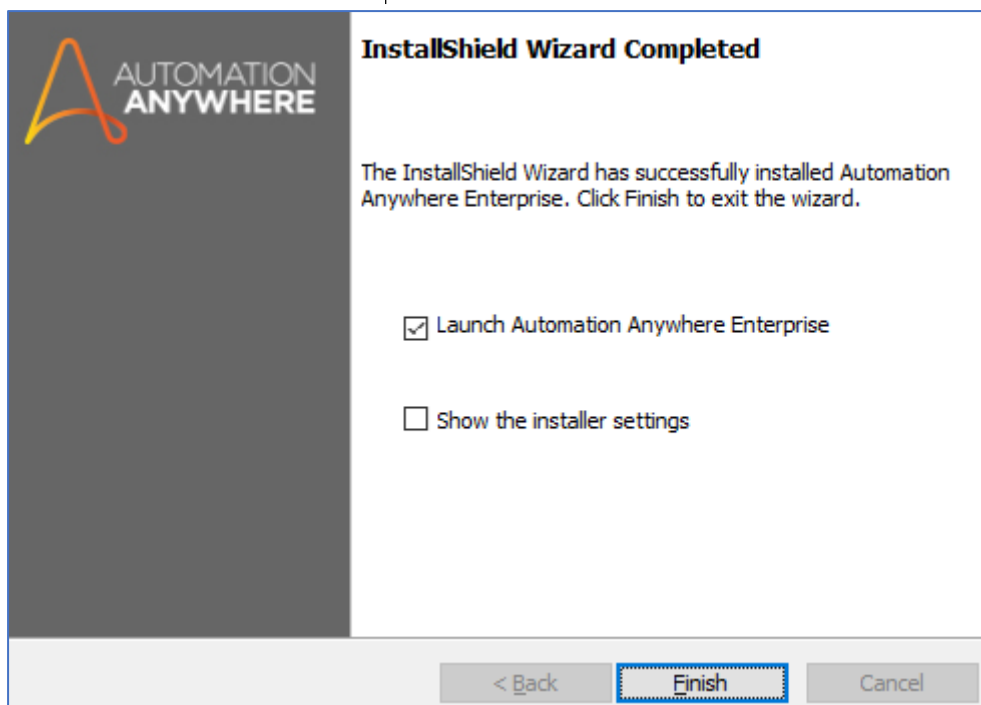
10. Click **Next**. The **Ready to Install the Program** page is displayed.



11. Click **Install**. The installation of Control Room gets started.



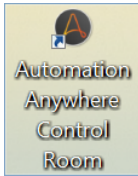
12. Allow the installation to complete and click **Finish** button.



13. Once the installation is complete, the installation wizard provides you with the following options.

- **Launch Automation Anywhere Enterprise:** Launches Control Room in your default browser with the **Configure Control Room settings** page displayed. For more information, refer *Automation Anywhere Control Room User guide*.  
NOTE: If you do not select this option, you can launch Control Room from the desktop shortcut

icon:



- **Show the installer settings:** Select this option to open the `aae-installsummary.html` file. By default, this is located at "`C:\Program Files\Automation Anywhere\Enterprise\`". Use this file to view a summary of the installation. It provides the following details.

## AAE v11.1.0 (Install Summary)

Installer summary lists the user or default selected settings for the product.

### Installer

Installer Version	11.1.0.31
Build Date	2018-04-16
Install Mode	Express
Install Location	C:\Program Files\Automation Anywhere\Enterprise\

### SQL Server

Host	PRODUCTLT\SQLEXPRESS
Protocol	tcp
Port	1433
Control Room Database	CRDB_NEW

### PostgreSQL Server

Host	localhost
Protocol	tcp
Port	5433
Database	zoomdata
Username	zoomdata

### BotInsight

Host	PRODUCTLT
Database	BotInsight
Port	8091
Zoomdata Port	8191
EDC Port	8291

### Control Room Web Server

CR HTTP Port	81
CR HTTPS Port	443

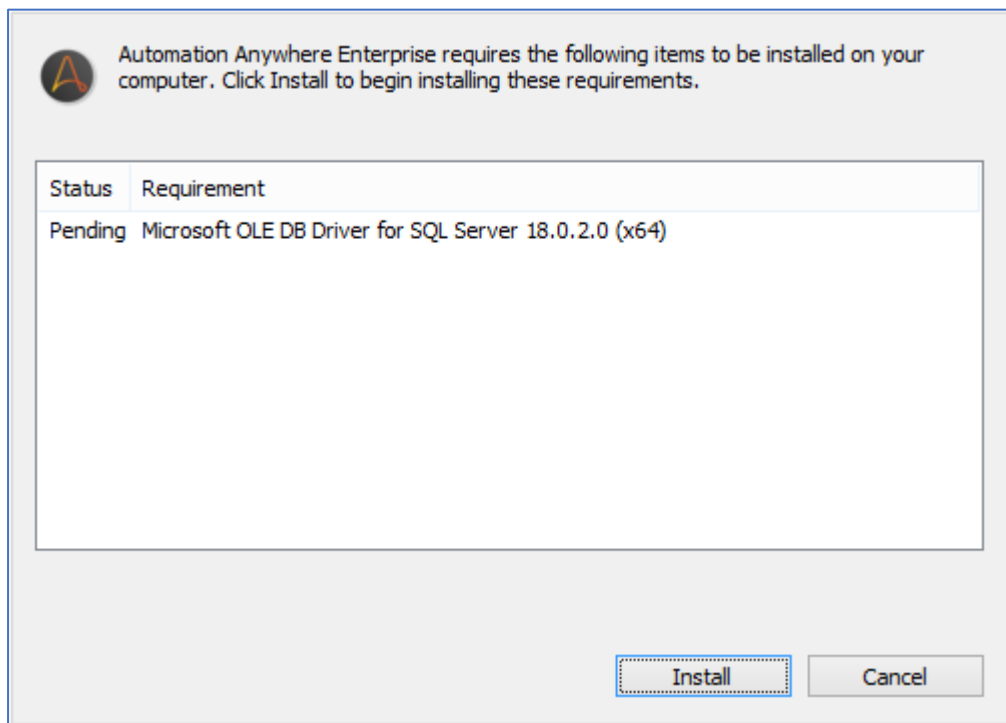
### 3.3 Custom Installation

The Custom mode of installation allows you to install the Control Room using your choice of settings. The customizations you can make using this setup method are:

- Select a destination folder to install the application
- Type the system IP addresses for cluster configuration
- Option to provide a custom certificate for configuring the application Transport Layer Security (TLS)
- Option to provide CA certificate for secure connection to SQL server, mail servers and LDAP servers.
- Option to configure service credentials using local system account or user account
- Select the database server and method of authentication – Windows or SQL Server Authentication
- Option to use default database for Control Room and Bot Insight databases
- Option to install a new PostgreSQL Server instance or connect to an existing PostgreSQL server on another Control Room

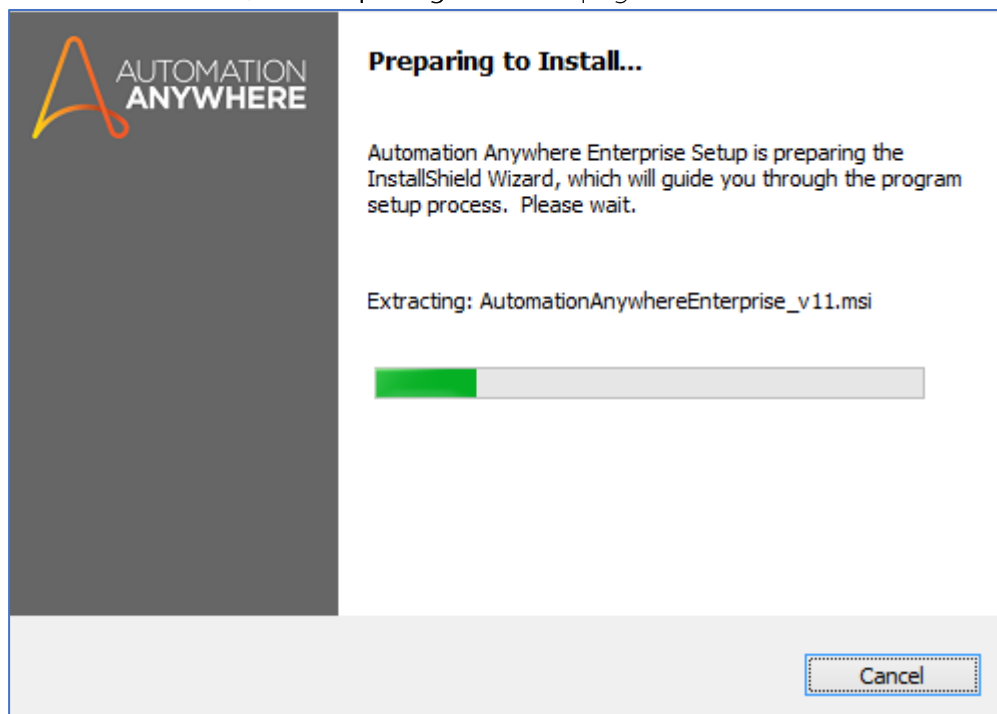
To install Automation Anywhere Control Room in Custom mode, perform the following steps.

1. Extract all files from **AAE\_11\_LTS\_Setup.zip** file.
2. Optionally, run the **AAE\_MSSQL\_Express\_2014SP1.exe** to install the default SQL Server instance.  
**NOTE:** Installing the SQL Server instance is optional. You can also choose to configure your own SQL Server by using the 11 LTS Control Room installer.
3. The installer checks whether **Microsoft OLE DB Driver for SQL Server** is installed. If not, the following message is displayed:

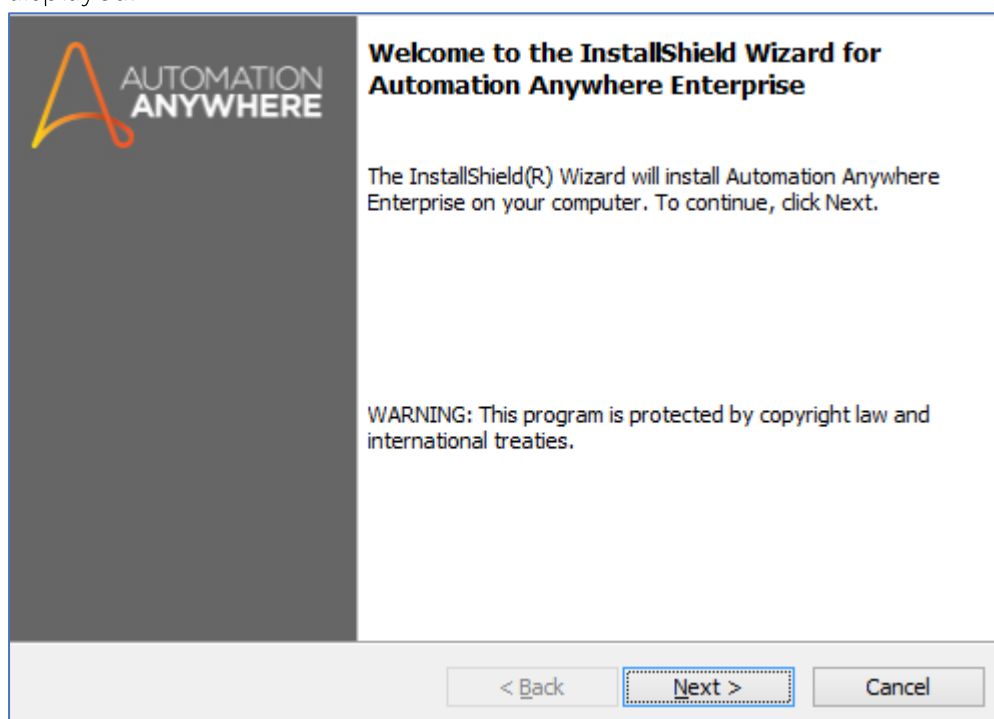


- Click **Install**. This installs the component.

- Once it is installed, the Preparing to install page is launched:

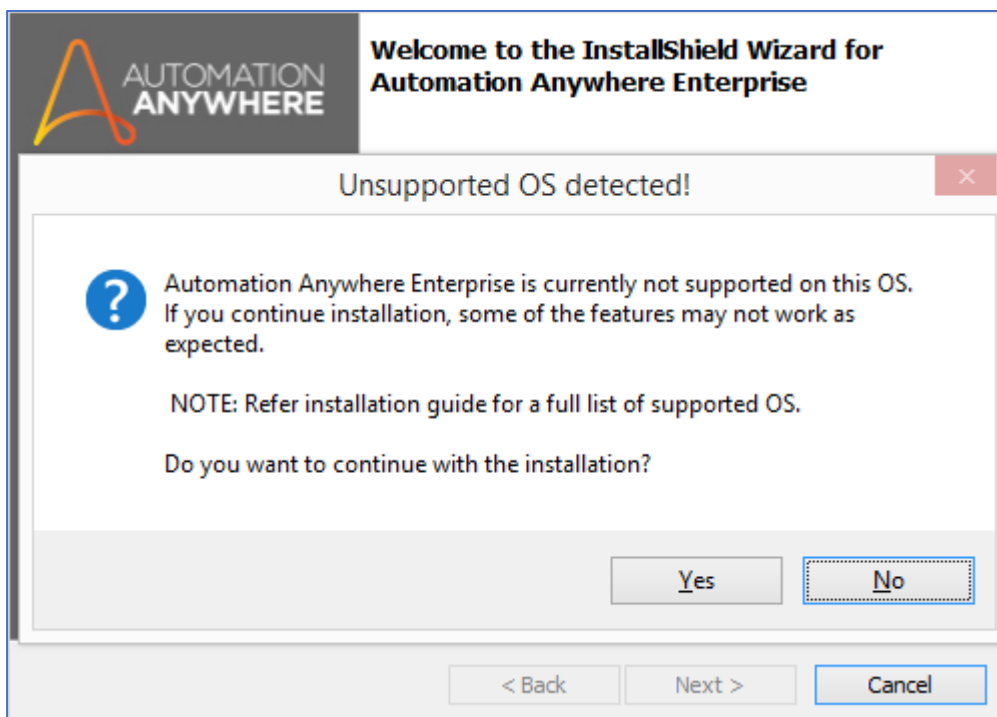


4. Once the extraction is done, the Automation Anywhere Enterprise setup wizard Welcome page is displayed.

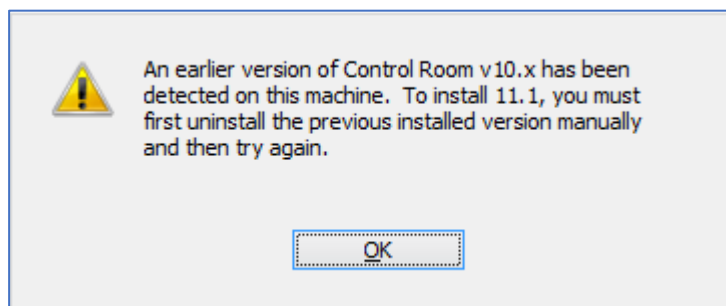




- If the installer detects an unsupported Operating System version, the following message is shown:

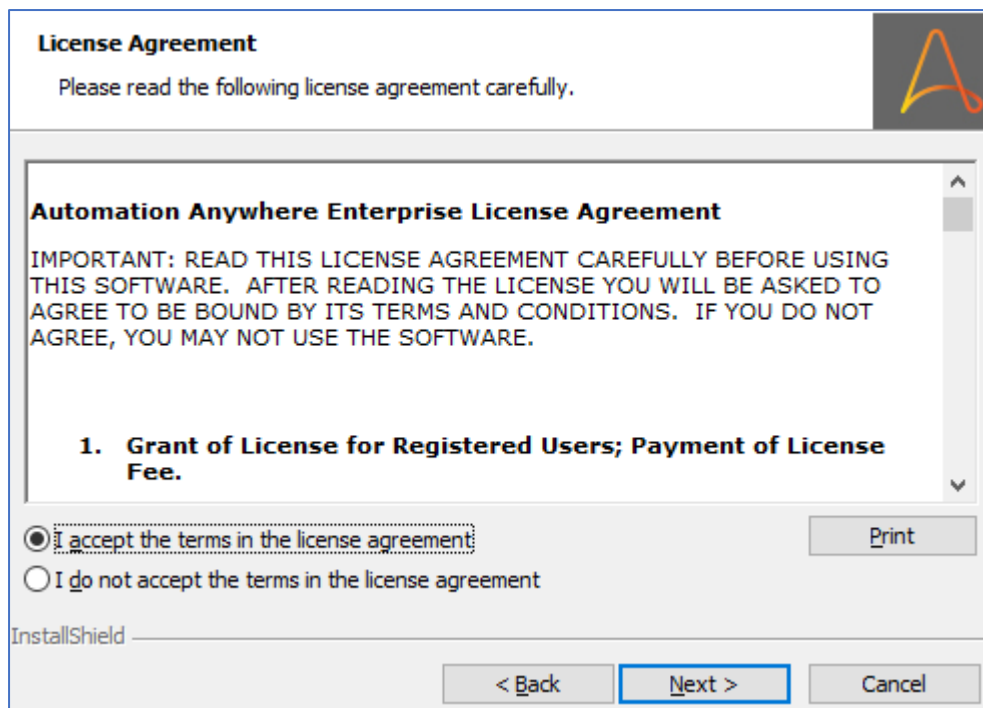


- Click **Yes** to continue with the installation. This launches the **Welcome** page.
- Click **No** to exit the installation. This launches the **Finish** page.
- The installer now checks whether another version of Control Room is installed:
  - If the installer detects another version of Control Room, the following message is shown:



- Click **OK**. This launches the **Finish** page. You should uninstall the previous version and run the setup again.

5. Click **Next** button. The **License Agreement** page is displayed.



**License Agreement**

Please read the following license agreement carefully.

**Automation Anywhere Enterprise License Agreement**

IMPORTANT: READ THIS LICENSE AGREEMENT CAREFULLY BEFORE USING THIS SOFTWARE. AFTER READING THE LICENSE YOU WILL BE ASKED TO AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS. IF YOU DO NOT AGREE, YOU MAY NOT USE THE SOFTWARE.

**1. Grant of License for Registered Users; Payment of License Fee.**

☒ I accept the terms in the license agreement

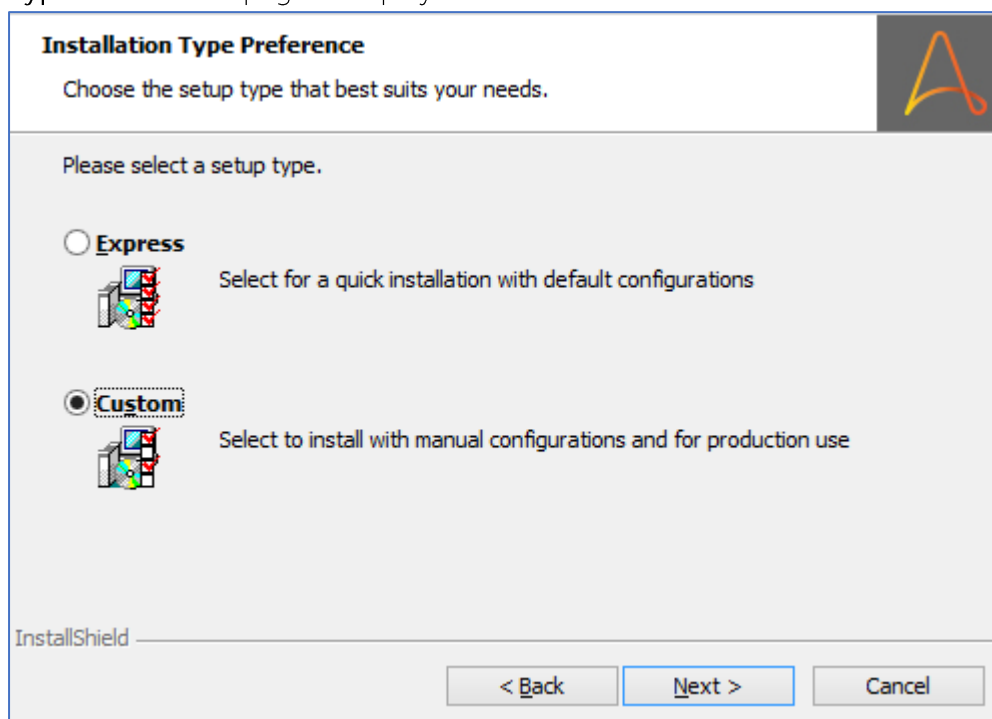
☐ I do not accept the terms in the license agreement

Print

InstallShield

< Back Next > Cancel

6. Carefully read the license agreement, accept the agreement, and click **Next** button. The **Installation Type Preference** page is displayed.




**Installation Type Preference**


Choose the setup type that best suits your needs.

Please select a setup type.

☐ **Express**

 Select for a quick installation with default configurations

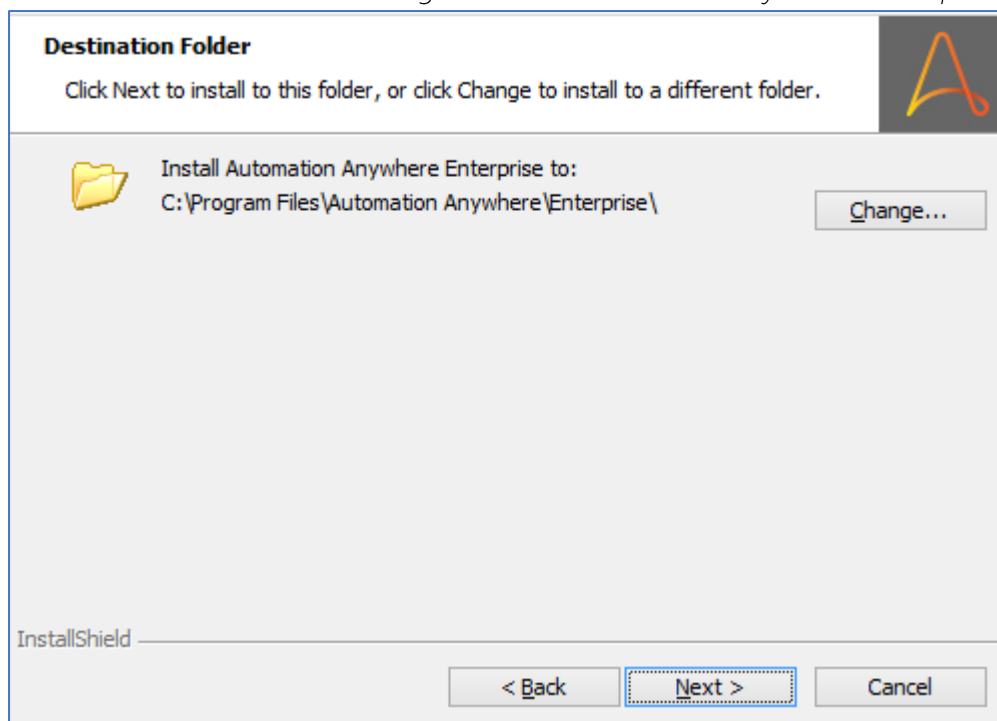
☒ **Custom**

 Select to install with manual configurations and for production use

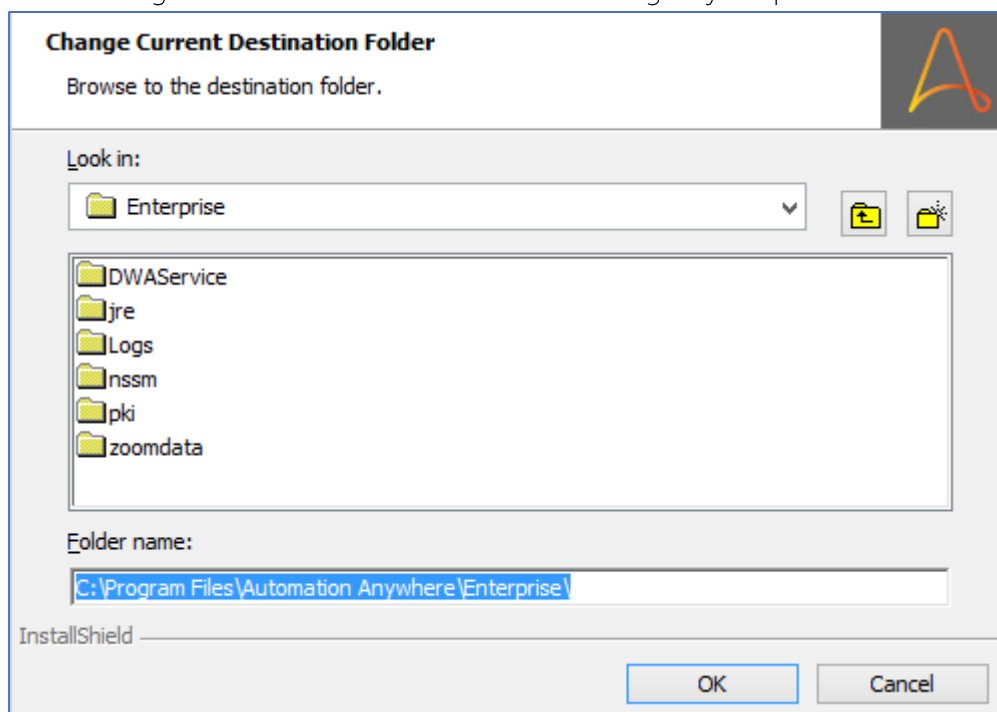
InstallShield

< Back Next > Cancel

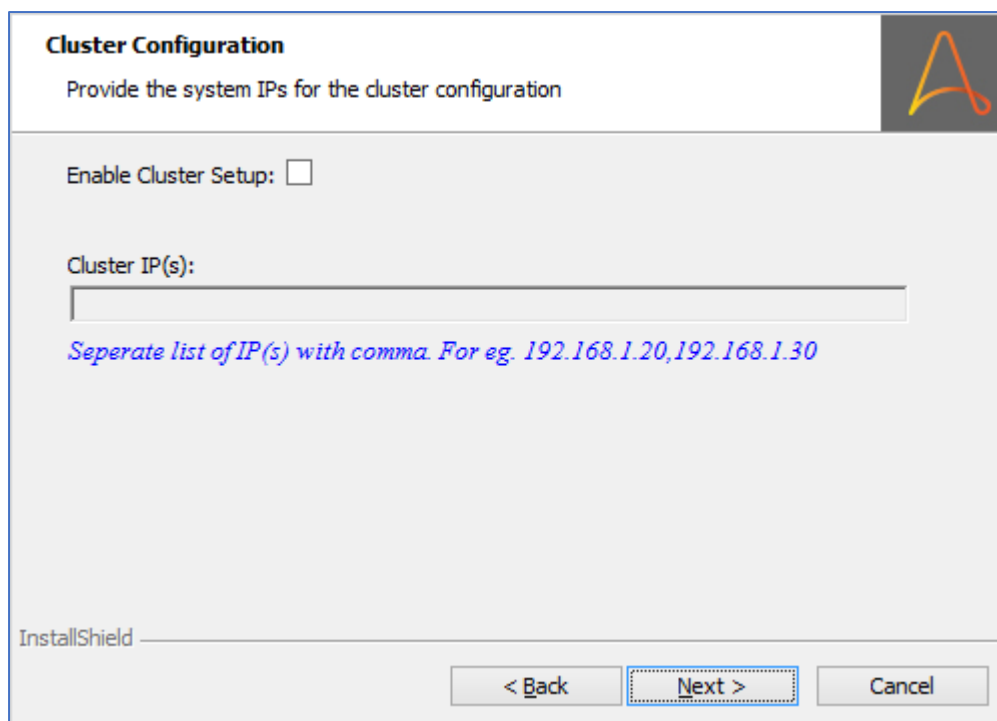
7. Select the Custom option and click Next button. The Destination Folder page is displayed. By default, the destination folder is "C:\Program Files\Automation Anywhere\Enterprise\".



- Make changes to the destination folder according to your preferences.



8. Click Next button. The Cluster Configuration page is displayed.



**Cluster Configuration**  
Provide the system IPs for the cluster configuration

Enable Cluster Setup: ☐

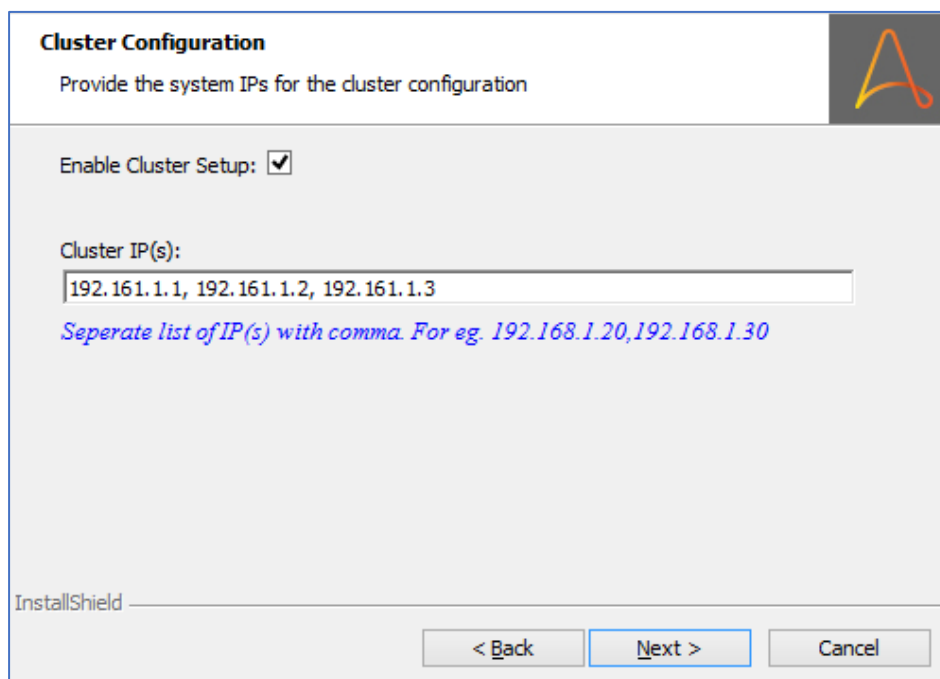
Cluster IP(s):  
  
*Seperate list of IP(s) with comma. For eg. 192.168.1.20,192.168.1.30*

InstallShield

< Back   Next >   Cancel

The Cluster Configuration page allows you to provide the list of IP addresses of other Control Room nodes in the cluster for cluster communication. Do the following.

- **Enable Cluster Setup:** Select this check box to specify the list of Control Room nodes and their IP addresses. By default, this is not checked and clicking this check box enables the **Cluster IP(s)** field.
- **Cluster IP(s):** Type the IP addresses of the nodes which will form a cluster in this field. Use a comma (,) to specify more than one IP address. For example, 192.161.1.1, 192.161.1.2, 192.161.1.3 and so on.



**Cluster Configuration**  
Provide the system IPs for the cluster configuration

Enable Cluster Setup: ☒

Cluster IP(s):  
  
*Seperate list of IP(s) with comma. For eg. 192.168.1.20,192.168.1.30*

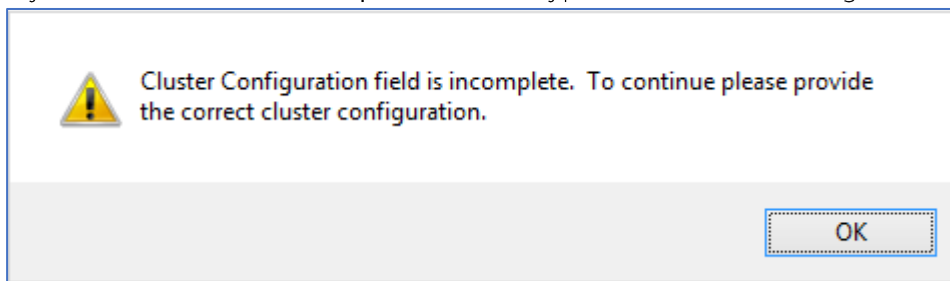
InstallShield

< Back   Next >   Cancel

**NOTE:** All nodes to be configured for Cluster IP should be available for configuration in advance

as you cannot configure additional IPs post installation. Also, ensure you provide the same list of IPs in all the nodes participating in the cluster when you install Control Room in these nodes.

- If you **Enable Cluster Setup** and do not type an IP, the following message is shown:

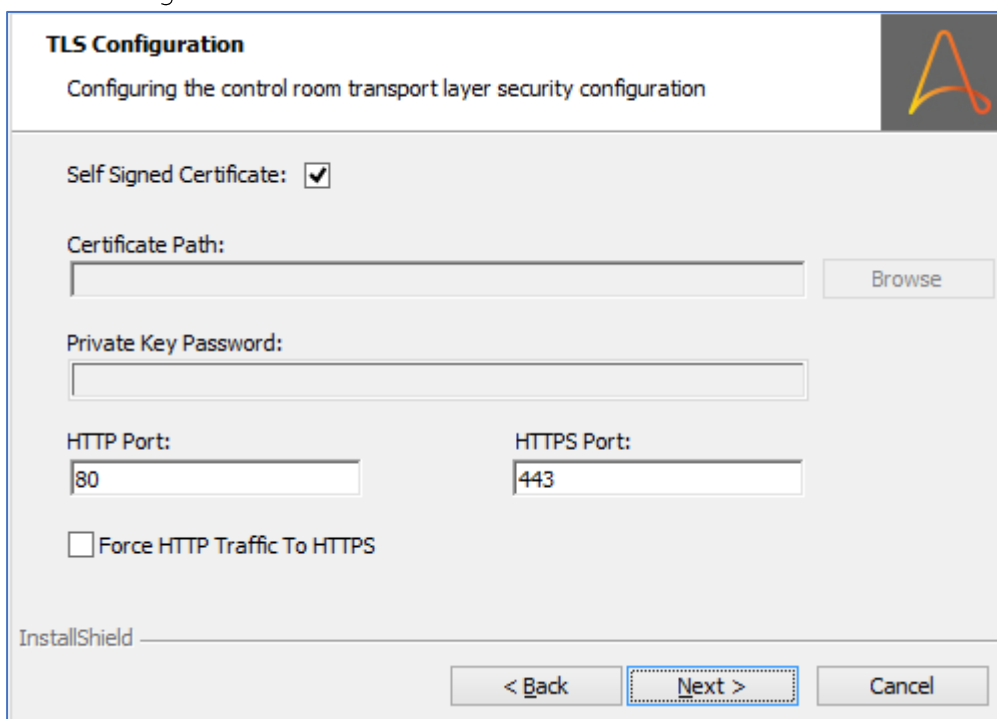


- Type in the IP and click OK to go back to the Cluster Configuration screen.  
**NOTE:** If you want to install the Control Room without a cluster, do not enable cluster setup.

9. Click Next. The TLS Configuration page is displayed wherein you can either:

- Generate a Self-Signed Certificate or
- Import a Certificate: You must import a certificate if successful certificate validation is required for accessing the Control Room.

When the Self Signed Certificate option is enabled the installer will generate a unique private key and a self-signed certificate for the Control Room.



**TLS Configuration**  
Configuring the control room transport layer security configuration

Self Signed Certificate: ☒

Certificate Path:

Private Key Password:

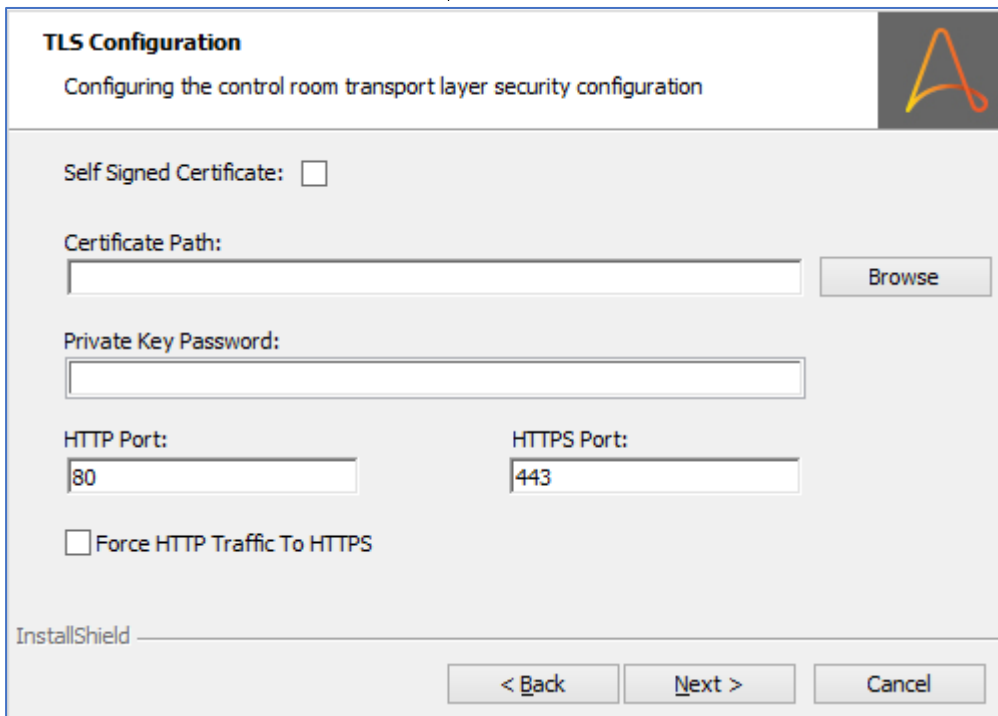
HTTP Port:  HTTPS Port:

☐ Force HTTP Traffic To HTTPS

InstallShield

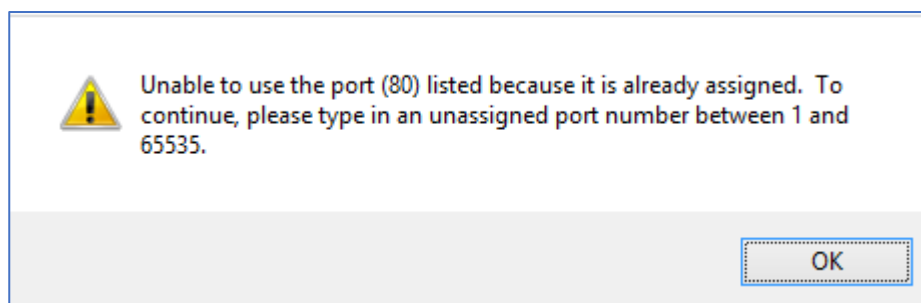
< Back **Next >** Cancel

- Alternatively, to import a custom certificate, clear the **Self Signed Certificate** option. This will enable Certificate Path to browse and import certificate.



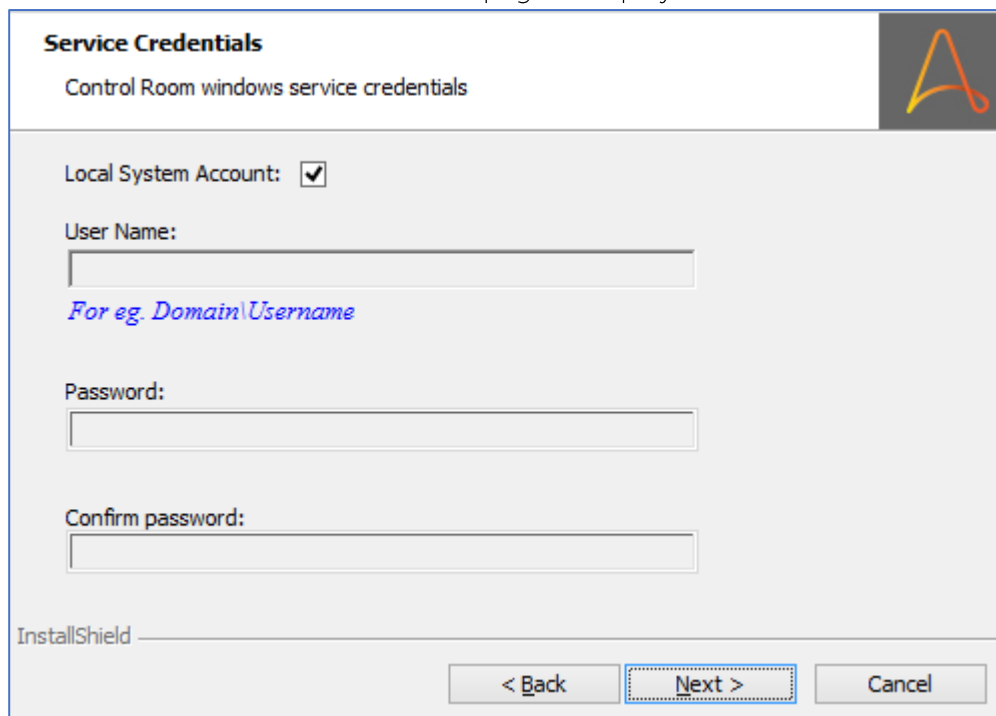
NOTE: The certificate file must be in PKCS12 format.

- Certificate Path:** Click the Browse button to import your certificate.
- Private Key Password:** Type the password for your private key.
- Webserver Port:** Select the Webserver port – either of http or https configuration.
  - If the port is already in use, the following message is displayed. Use a different port in such case.



- Enable **Force HTTP traffic to HTTPS** to redirect all HTTP port requests to HTTPS. To access the Control Room via HTTPS using the generated self-signed certificate, refer [Appendix C](#) for details.  
NOTE: Ensure the port number is different for both.

14. Click Next. The Service Credentials page is displayed.



**Service Credentials**  
Control Room windows service credentials

Local System Account: ☒

User Name:  
  
*For eg. Domain\Username*

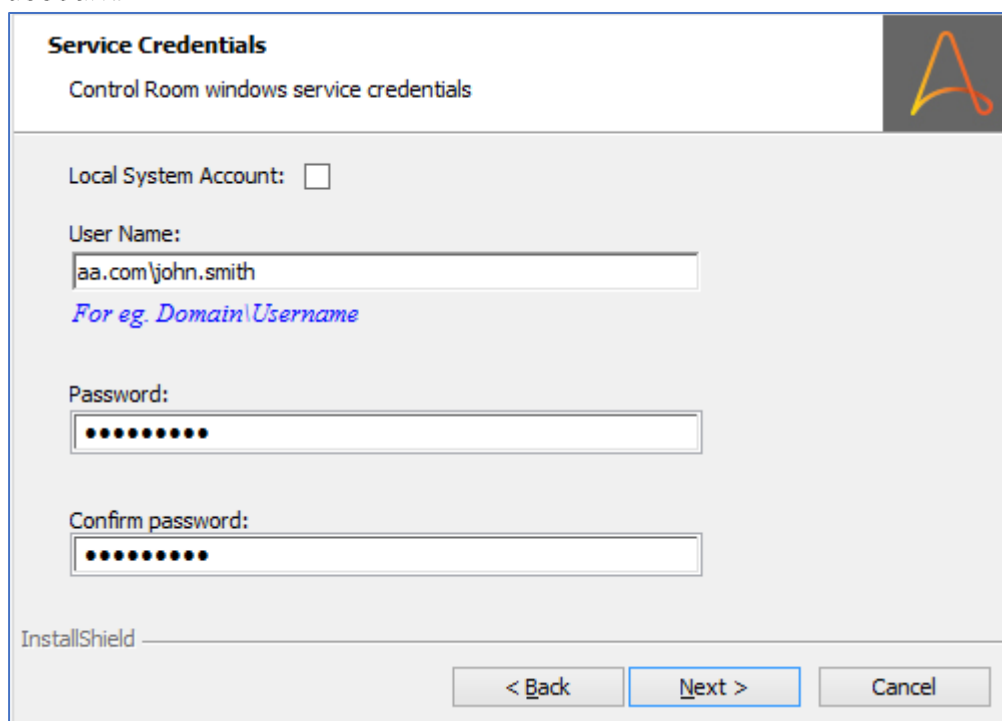
Password:

Confirm password:

InstallShield \_\_\_\_\_

< Back   Next >   Cancel

- Clear the Local System Account option to add credentials manually to configure the domain account.



**Service Credentials**  
Control Room windows service credentials

Local System Account: ☐

User Name:  
  
*For eg. Domain\Username*






Password:

Confirm password:

InstallShield \_\_\_\_\_

< Back   Next >   Cancel

The Service Credentials page allows you to specify the account that will be used to run all Windows services that are created by Automation Anywhere Enterprise installer. As an example, in the following figure, the Automation Anywhere Control Room Service is running using the Local System account.

Name	Log On As	Description
 Automation Anywhere Bot Insight Visualization	Local System	Renders service requests for dashboards w...
 Automation Anywhere Control Room Messaging	Local System	Allows Control Room services to commun...
 Automation Anywhere Control Room Reverse Proxy	Local System	Receives all incoming HTTP and HTTPS re...
 <b>Automation Anywhere Control Room Service</b>	Local System	Receives and processes API requests for th...
 Automation Anywhere Enterprise Auto Login Service	Local System	Provides support for Auto Login functiona...

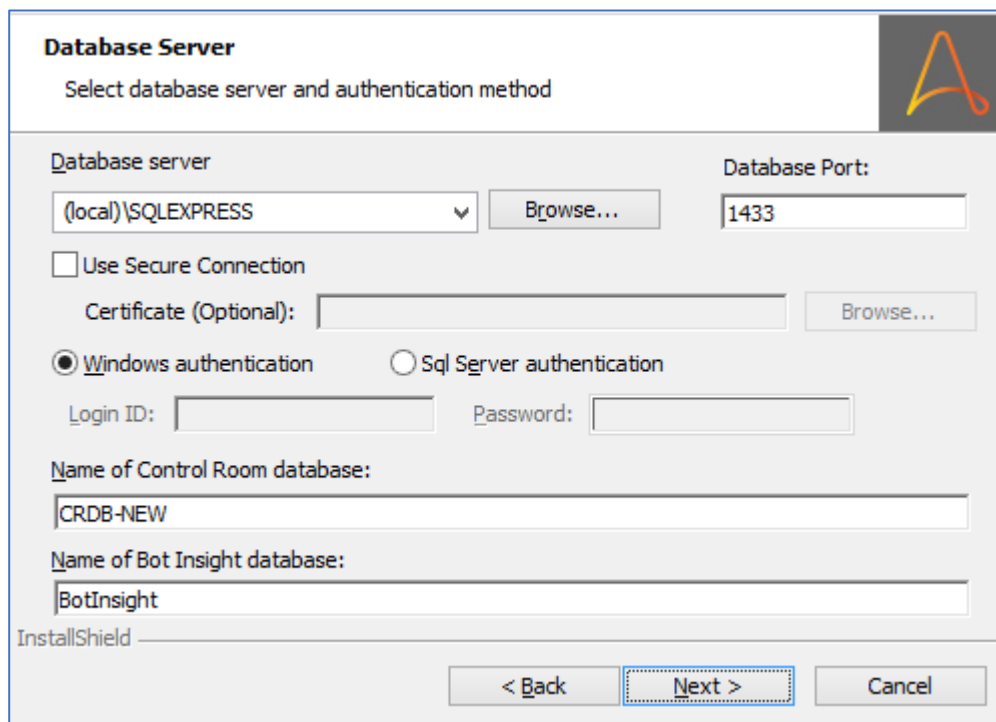
By default, the Local System Account is selected. To run Automation Anywhere services as a different user instead of a Local System account, clear the **Local System Account** check box and type the user name and password for the domain account.

#### IMPORTANT:

- If you do not enter the correct Windows domain credentials which shall not be validated on this screen, the Automation Anywhere services will not run and the Control Room will fail to launch.
- The user running the installer needs system admin role.
- If using **remote SQL server** for creating database then, the combination of **Local System Account for Service Credentials** and **Use Windows Authentication for SQL Connection** is not supported.
  - A username and password must be specified for services instead of local system service account when using a remote database server.
  - The username and password specified is used to create tables and for the control room processes to access the database.

Refer [Matrix for creating database, tables, and services](#)

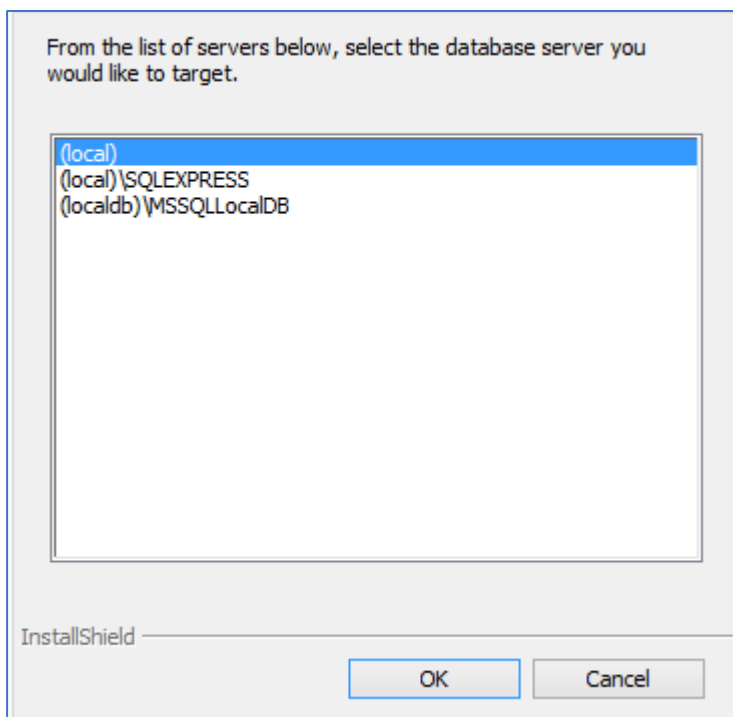
15. Click **Next**, the Database Server details are displayed. Use this page to specify the details of the Control Room database.



On the Database Server page, do the following.



- **Database server that you are installing to:** Click **Browse** button to select the SQL server instance where the CR database will be created.

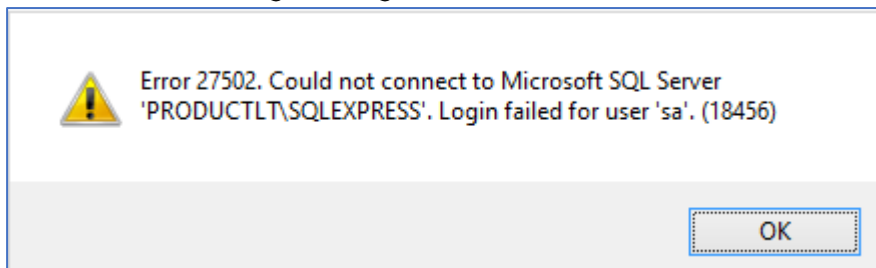


Alternately, type a database server name or select one from the list and/or suffix with server instance name.

**NOTE:** If using Remote SQL server for creating database then, the combination of **Local System Account for Service Credentials** and **Use Windows Authentication** for SQL Connection is not supported

- **Database Port:** By default, this is set to 1433. You can also choose to specify the port number which is configured for the SQL server instance.
- **Use Secure Connection:** If you select **Use Secure Connection** then you must ensure that CA certificate is imported in the next field.  
**NOTE:** The host name in certificate and database connection must be same.
- **Certificate:** This option is enabled when you select secure connection. Browse to select a CA certificate. Refer section on [Importing certificate](#) for details on how to import this certificate using the command line.
- **Windows Authentication:** This option is selected by default. This allows you to connect to SQL Server using windows authentication.
  - If user selects **Windows Authentication** then the user running the installer is used to test that the database exists, create it if necessary, and grant **db\_owner** to the service account user (NT Authority/System). Refer [Matrix for creating database, tables, and services](#).
- **SQL Server authentication:** Select this option to use SQL server Authentication to connect to the database. You must provide correct username and password for SQL Authentication. On invalid

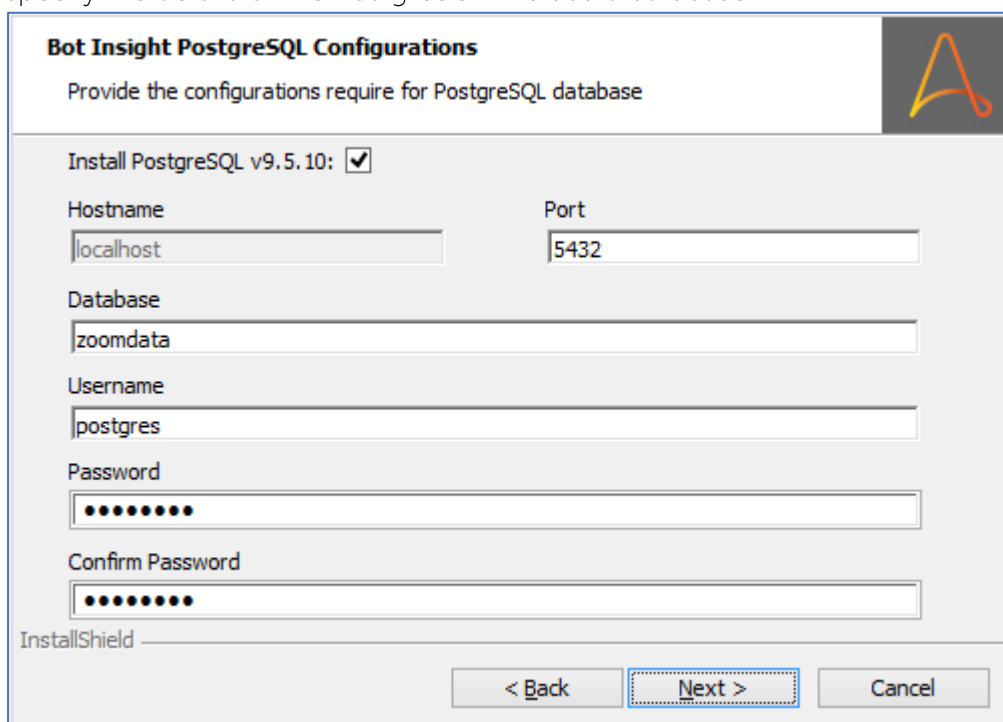
credentials, following message is shown:



- Name of Control Room database: Type the name for the Control Room database.
- Name of Bot Insight database: Type the name for the Bot Insight database. This database is used to store the metadata of Bot Insight dashboards.

NOTE: If the database (Control Room and/or Bot Insight) does not exist, the installer will create a new one automatically.

16. Click **Next**. The Bot Insight PostgreSQL Configurations page is displayed. This page allows you to specify the details of the PostgreSQL metadata database.



**Bot Insight PostgreSQL Configurations**

Provide the configurations require for PostgreSQL database

Install PostgreSQL v9.5.10: ☒

Hostname:  Port:

Database:

Username:

Password:

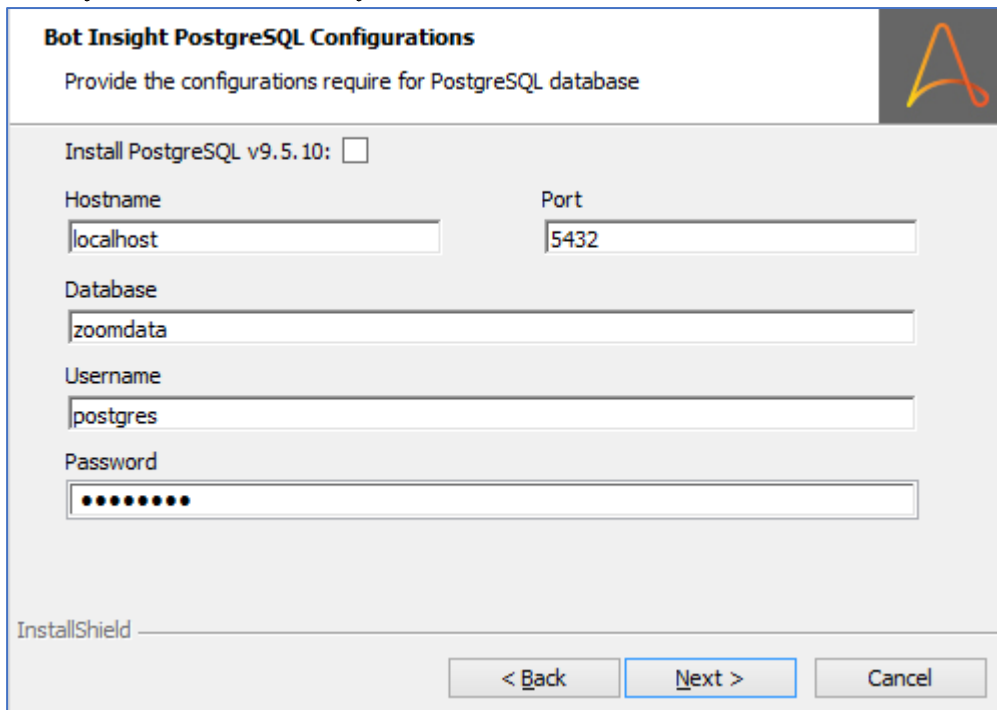
Confirm Password:

InstallShield

< Back Next > Cancel

17. On the Bot Insight Postgres Configurations page, do the following.
  - Install PostgreSQL v9.5.10: Select this check box to use the default settings for installing PostgreSQL. By default, this check box is selected. You may clear this option if the PostgreSQL is

already installed for which you are shown:



**Bot Insight PostgreSQL Configurations**  
Provide the configurations require for PostgreSQL database

Install PostgreSQL v9.5.10: ☐

Hostname:  Port:

Database:

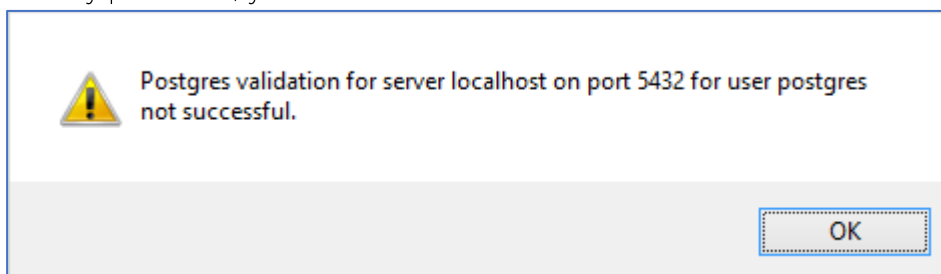
Username:

Password:

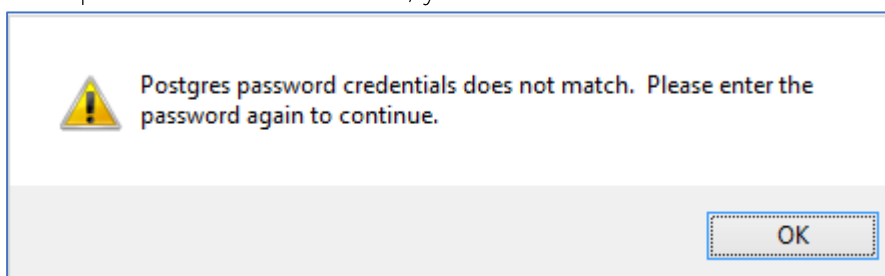
InstallShield \_\_\_\_\_

< Back Next > Cancel

- **Hostname:** Type the hostname for the PostgreSQL Server. The default name is localhost.
- **Port:** Type the port number for the PostgreSQL Server. The default Port number is 5432. If there are any problems, you are shown:

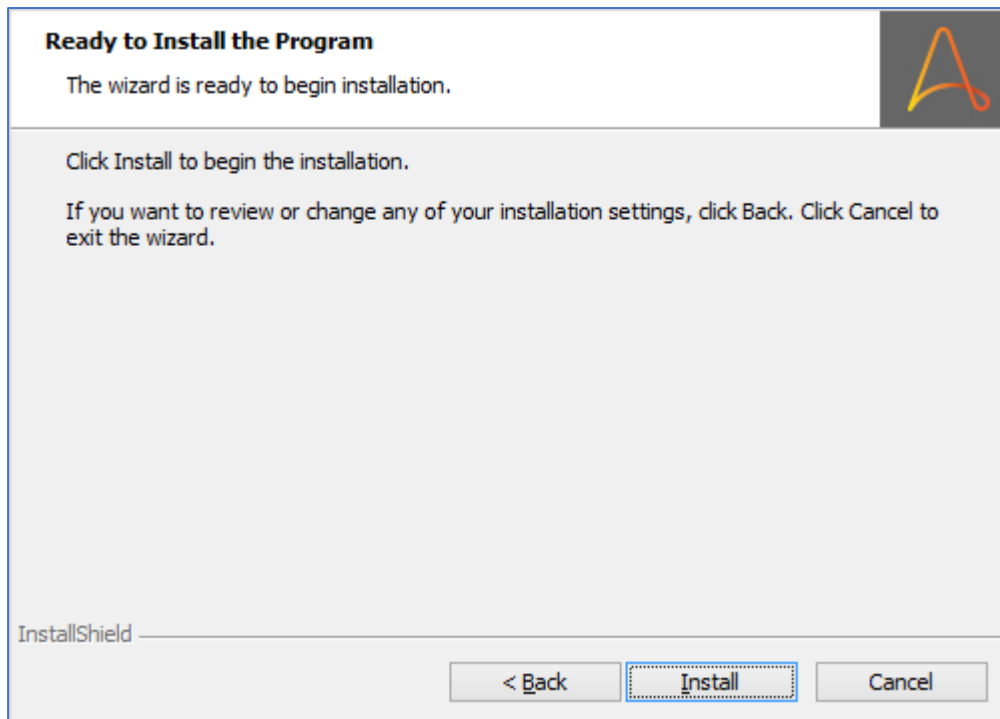


- **Database:** Type the database name that will be used for BotInsight. By default, the database name is zoomdata
- **Username:** Type the user name for the PostgreSQL database. The default username is postgres.
- **Password:** Type the password for the PostgreSQL database.
- **Confirm Password:** This is only visible when the Install Postgres option is selected. If the passwords do not match, you are shown:

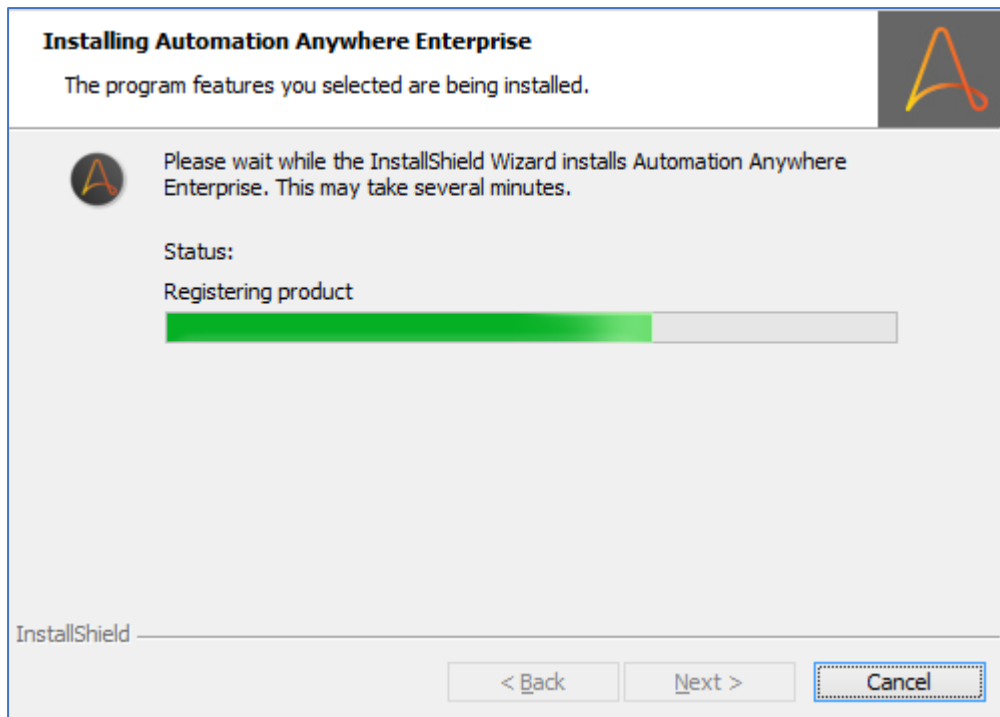


**NOTE:** If Install PostgreSQL option is selected, the **Hostname** is disabled and set to default values.

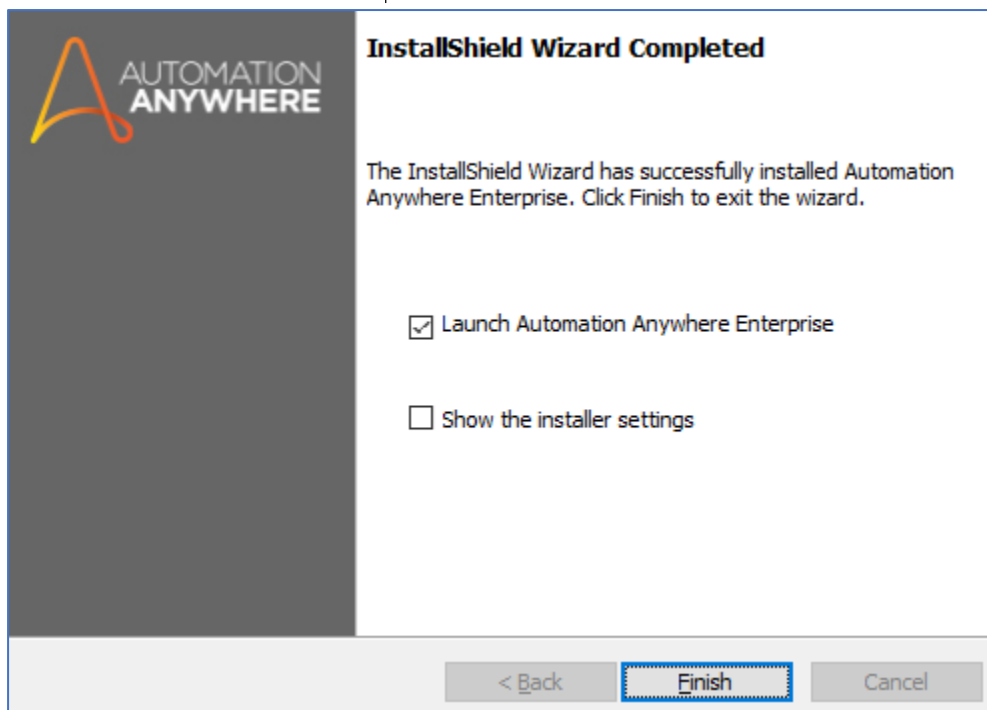
18. Click **Next**. The **Ready to Install the Program** page is displayed. At this point, you can review your changes, click **Back**, and make changes to the installation settings.



19. Click **Install**. The installation is started.



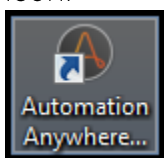
20. Allow the installation to complete and click the **Finish** button.



21. Once the installation is complete, the installation wizard provides you with the following options.

- **Launch Automation Anywhere Enterprise:** Launches Control Room in your default browser with the **Control Room Repository settings** page displayed followed by Credentials settings page. For more information, refer *Automation Anywhere Control Room User* guide.

**NOTE:** If you do not select this option, you can launch Control Room from the desktop shortcut icon:



- **Show the installer settings:** Select this option to open the `aae-installsummary.html` file. By default, this is located at `C:/Program Files/Automation Anywhere/Enterprise/`. Use this file to view

a summary of the installation. It provides the following details.

## AAE v11.0 (Install Summary)

Installer summary lists the user or default selected settings for the product.

### Installer

Installer Version	11.1.0.989
Build Date	2018-04-11
Install Mode	Custom
Install Location	C:\Program Files\Automation Anywhere\Enterprise\

### SQL Server

Host	PRODUCTLT
Protocol	tcp
Port	1433
Control Room Database	CRDB-NEW

### PostgreSQL Server

Host	localhost
Protocol	tcp
Port	5432
Database	zoomdata
Username	postgres

### BotInsight

Host	PRODUCTLT
Database	BotInsight
Port	8091
Zoomdata Port	8191
EDC Port	8291

### Control Room Web Server

CR HTTP Port	82
CR HTTPS Port	442

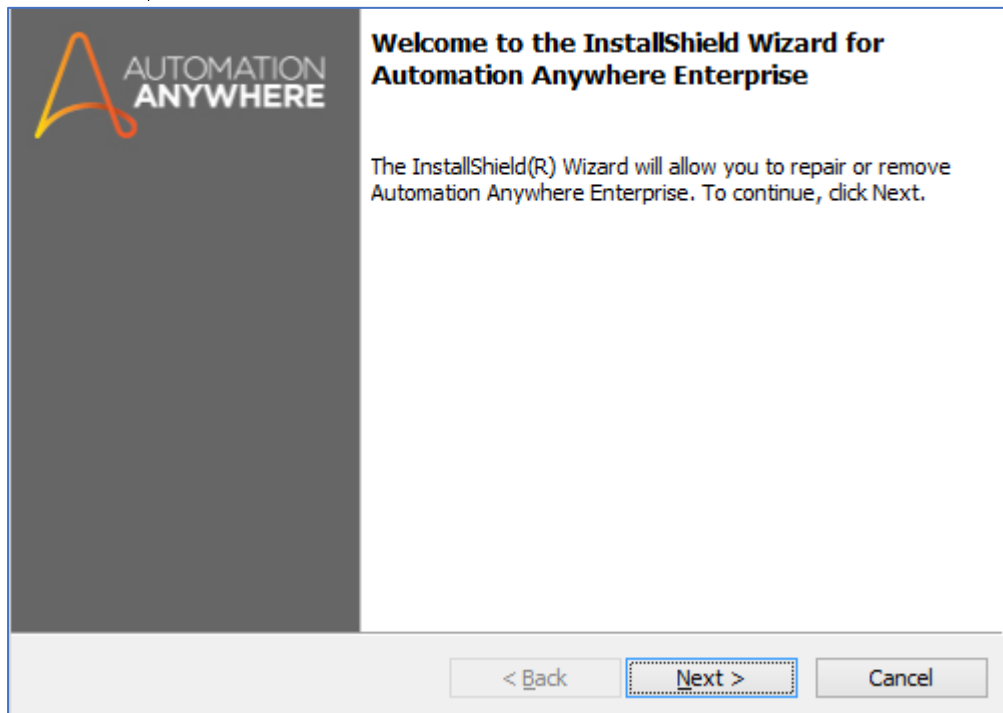
## 4 Post Installation Configuration

For post installation Control Room configuration, refer the [Getting Started](#) section in our online Help Centre.

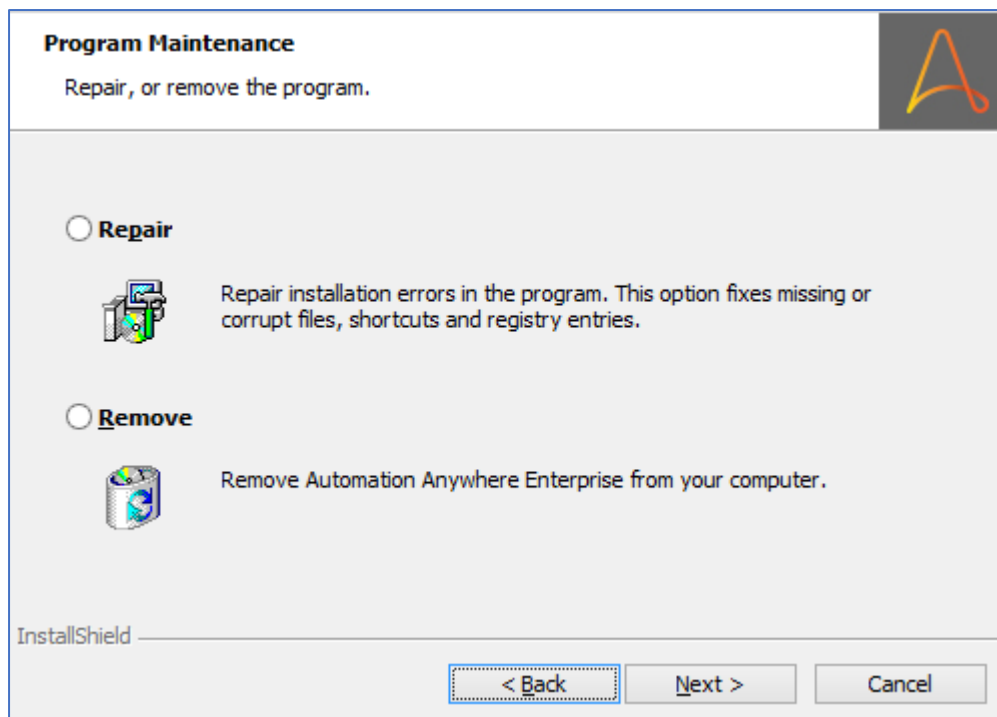
## 5 Repair Installation

Sometimes your installation of Control Room may be corrupted, and you may need to reinstall it so that missing components can be installed. For this, run the Automation Anywhere Enterprise 11.1 setup file and perform the following steps.

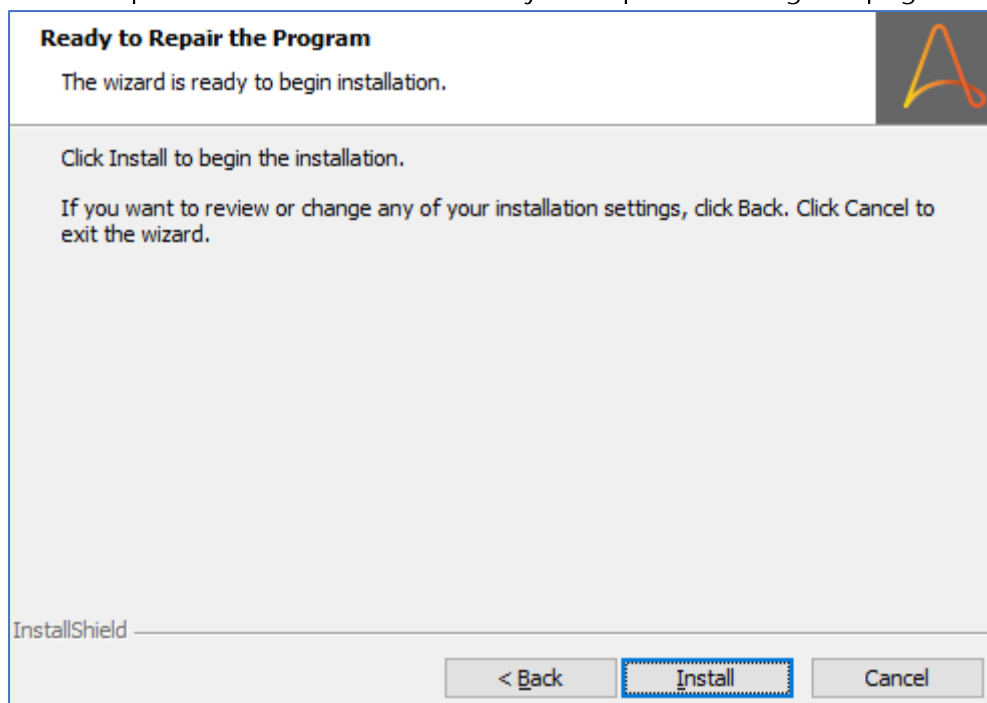
1. Run the Automation Anywhere Enterprise 11.1 setup file. The Automation Anywhere Enterprise installation wizard is opened.



2. Click Next. The Program Maintenance page is displayed.

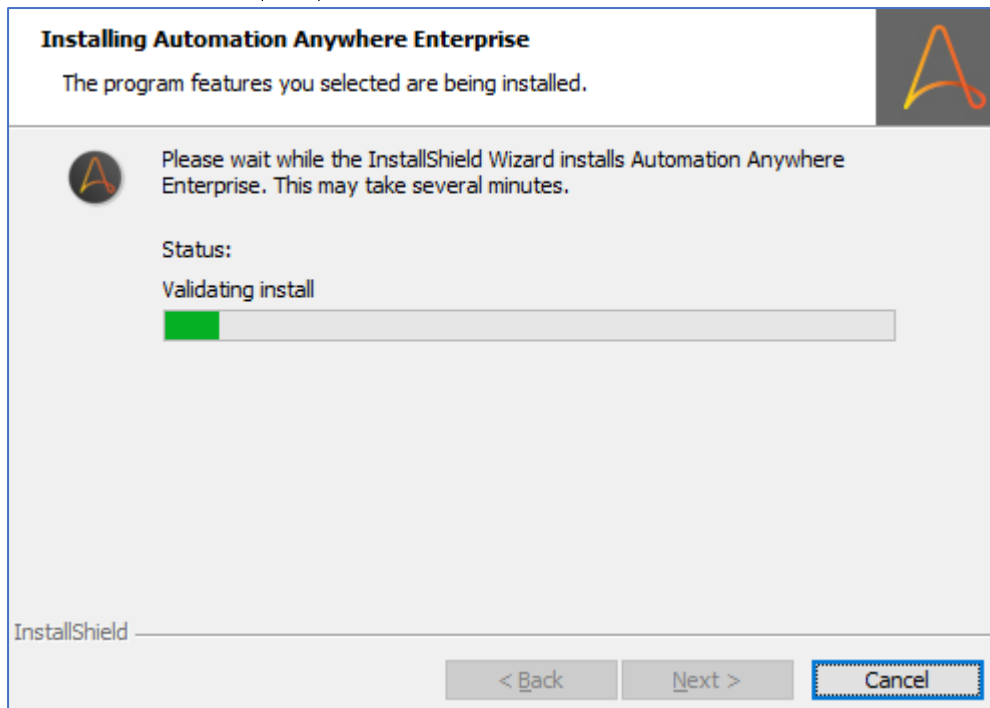


3. Select Repair and click Next. The Ready to Repair the Program page is displayed.

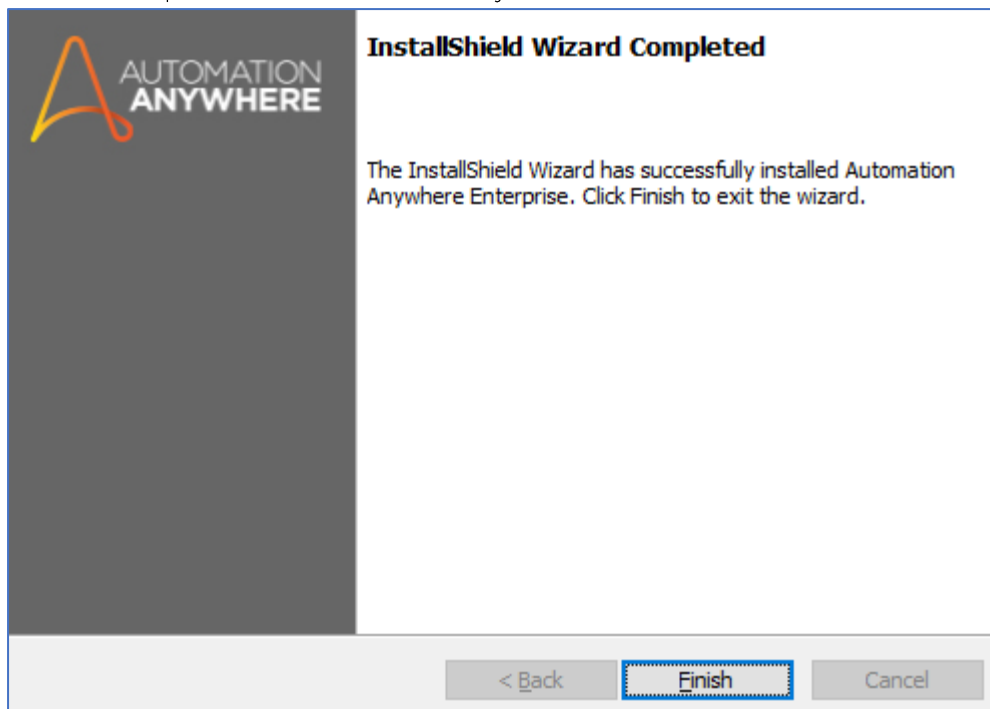




4. Click **Install**. The repair process is started.



5. Once the repair and maintenance of your Control Room installation is completed, click the **Finish** button.



## 6 Silent Installation

### 6.1 Prerequisites

Open power shell in admin mode and execute – `Set-ExecutionPolicy Unrestricted -Scope CurrentUser -Force`

#### 6.1.1 Custom silent Installation

Execute `.\install.ps1` in power shell (Preferably start power shell in admin mode)

**NOTE:** Edit the script and save correct value for the variables like `$service_username`, `$service_pwd`, `$db_server`, `$cr_port` etc.

#### 6.1.2 Installation Parameters

Variable Name	Description
INSTALLDIR	Installation Directory
AA_SETUPTYPE	Setup type Custom or Express
AA_SETCLUSTERMODE	For cluster set 1 else 0
AA_CRCLUSTERCONFIG	if AA_SETCLUSTERMODE=1 then cluster IP comma separated
AA_CRLISTENPORT	web server port. Default value is 80
AA_CRSETLOCALSERVICECRED	1 if service logon as System 0 if service logon as specific user
AA_CRSERVICEUSERNAME	if AA_CRSETLOCALSERVICECRED= 0 then domain\user name
AA_CRSERVICEPASSWD	if AA_CRSETLOCALSERVICECRED= 0 then password
AA_CRSERVICECONFIRMPASSWD	if AA_CRSETLOCALSERVICECRED= 0 then confirm password
AA_SQLSERVERAUTHTYPE	-
IS_SQLSERVER_SERVER	SQL server name (host name)
IS_SQLSERVER_DATABASE	SQL DB name
IS_SQLSERVER_AUTHENTICATION	0 for windows authentication
AA_SQLSERVERAUTHMODE	0 for windows authentication
AA_BIPGINSTALL	1 if Install PostgreSQL else 0
AA_INSTALLPOSTGRES	-
AA_BIPGHOSTNAME	PostgreSQL hostname (Server name)
AA_BIPGUSERNAME	PostgreSQL username
AA_BIPGPASSWORD	PostgreSQL password
AA_BIPGCONFIRMPASSWD	PostgreSQL confirm password
IS_SQLSERVER_DATABASE1	PostgreSQL DB name

### 6.1.3 Sample Powershell Script

```
$cr_port=81

$service_username= "aaspl-brd\john.smith" #e.g."aaspl-brd\ellie.brown"

$service_pwd= Get-Content -Path "D:\john.smith\Office\Products\Silent-Install-
CR\controlroom-cd\Scripts\dd-pwd.txt"

$db_server="localhost\sqlexpress"

$cr_db_name="CRDB-NEW"

$bi_db_name="BotInsight"

#$db_user="sa"

#$db_pwd="Admin@123"

$bi_pg_server="localhost"

$bi_pg_username="automation"

$bi_pg_pwd="Automation@123"

$installation_path="C:\Program Files\Automation Anywhere"

#Install latest setup

$static_installation_path="\Enterprise\\""

$silent_details=" /s ", "v" -join "/"

$installpath_details= "/qn INSTALLDIR=\""

$custom_details=" /vAA_SETUPTYPE=Custom /vAA_CUSTOMMODETYPE=1"

$port_cluster_details=" /vAA_SETCLUSTERMODE=0 /vAA_CRLISTENPORT=$cr_port"

$service_details=" /vAA_CRSETLOCALSERVICECRED=0
/vAA_CRSERVICEUSERNAME=$service_username /vAA_CRSERVICEPASSWD=$service_pwd
/vAA_CRSERVICECONFIRMPASSWD=$service_pwd"

$db_details=" /vAA_SQLSERVERAUTHTYPE=true /vIS_SQLSERVER_SERVER=$db_server
/vIS_SQLSERVER_DATABASE=$cr_db_name /vIS_SQLSERVER_DATABASE1=$bi_db_name
/vIS_SQLSERVER_AUTHENTICATION=0 /vAA_SQLSERVERAUTHMODE=0"

#$db_details=" /vAA_SQLSERVERAUTHTYPE=true /vIS_SQLSERVER_SERVER=$db_server
/vIS_SQLSERVER_USERNAME=$db_user /vIS_SQLSERVER_PASSWORD=$db_pwd
/vIS_SQLSERVER_DATABASE1=$bi_db_name /vIS_SQLSERVER_DATABASE=$cr_db_name
/vIS_SQLSERVER_AUTHENTICATION=1 /vAA_SQLSERVERAUTHMODE=1"

$pg_details=" /vAA_BIPGINSTALL=1 /vAA_INSTALLPOSTGRES=0
/vAA_BIPGHOSTNAME=$bi_pg_server /vAA_BIPGUSERNAME=$bi_pg_username
/vAA_BIPGPASSWORD=$bi_pg_pwd /vAA_BIPGCONFIRMPASSWORD=$bi_pg_pwd"

$other=" /vLAUNCHPROGRAM=1"
```

```
$final_commandline = -  
join($silent_details,$installpath_details,$installation_path,$static_installation  
_path,$custom_details,$port_cluster_details,$service_details,$db_details,$pg_details,$other)  
  
Write-Host $final_commandline  
  
# $a=Get-ChildItem $PSScriptRoot\* -Include *.exe  
  
$a = "D:\Deven.Deshpande\Office\Daily set-ups\AA  
11.0\AutomationAnywhereEnterprise_v11-02222018-09491769.exe"  
  
Write-Host $a  
  
Write-Host "Starting the installation please wait for some time..."  
  
$processdetail=(Start-Process -FilePath $a -ArgumentList $final_commandline -  
Wait -PassThru).ExitCode  
  
Write-Host $a.Name execution is done. If installation is not proper please check  
msi logs in the temp folder.  
  
pause
```

## 7 Uninstallation

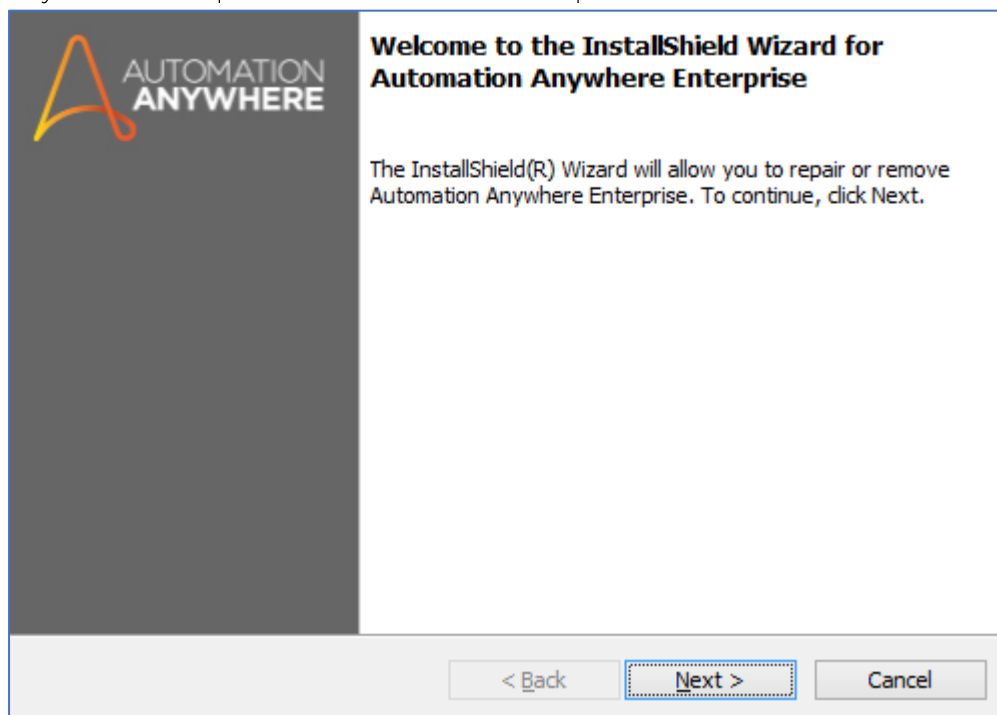
This chapter describes the methods to uninstall Automation Anywhere Enterprise Control Room.

### 7.1 Remove/Uninstall Automation Anywhere Enterprise Control Room

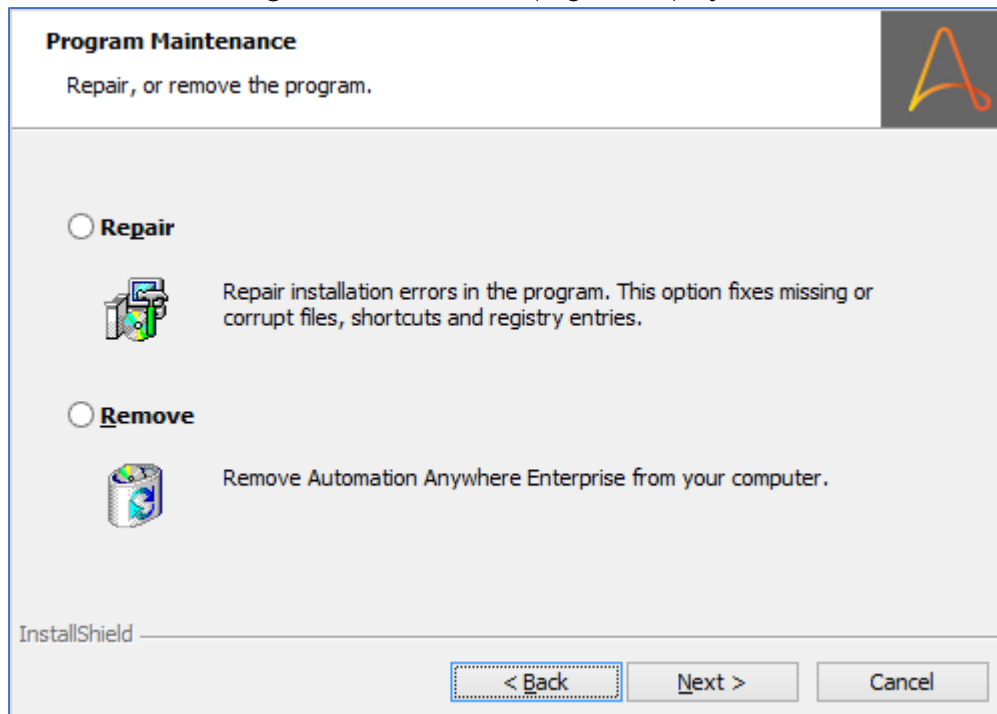
#### 7.1.1 Uninstalling using the Automation Anywhere Enterprise Control Room Installer

To remove/uninstall Automation Anywhere Control Room, perform the following steps.

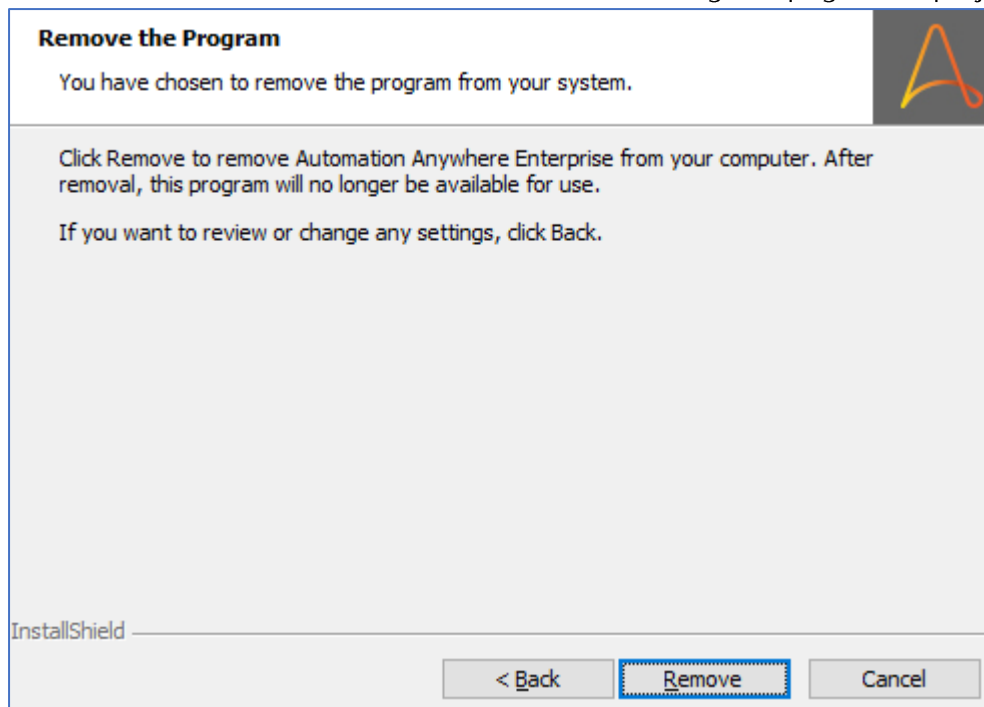
1. Double-click the Automation Anywhere Enterprise Control Room 11.1 setup file. The Automation Anywhere Enterprise installation wizard is opened.



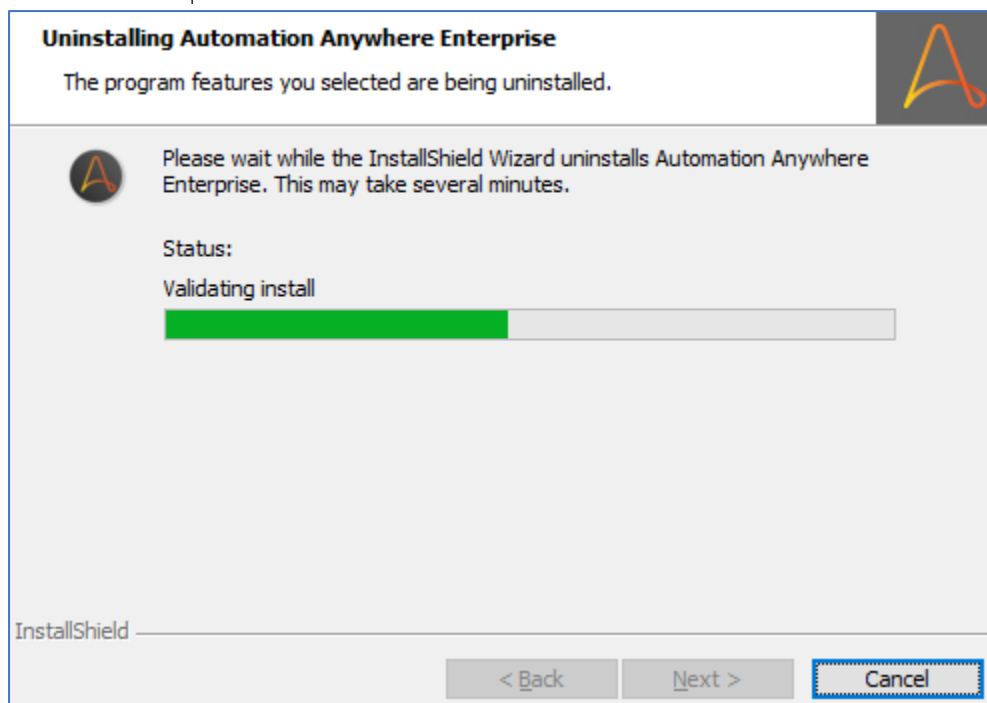
2. Click Next. The Program Maintenance page is displayed.



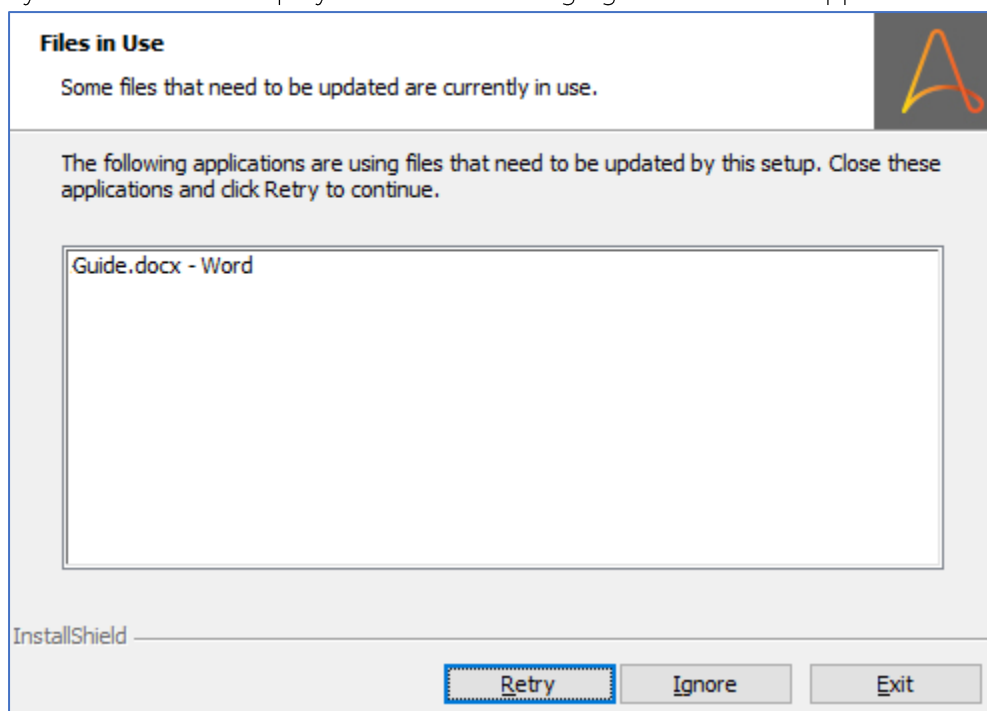
3. Select Remove and click Next. The Remove the Program page is displayed.



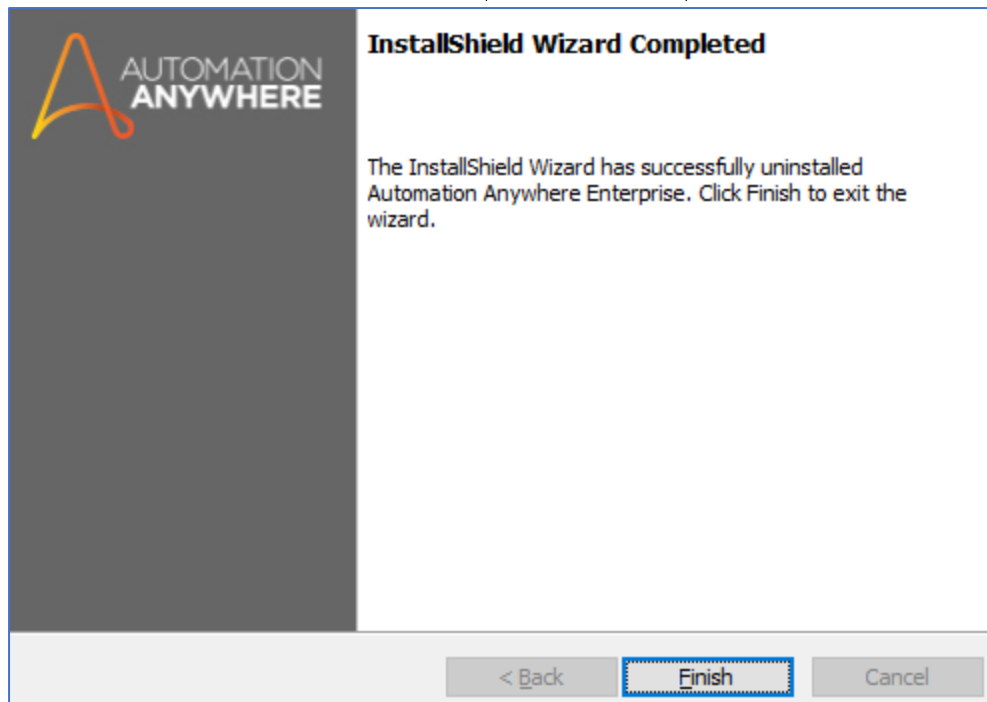
- Click Remove. The Uninstalling Automation Anywhere Enterprise page is displayed, and the uninstallation process is started.



During the process of uninstallation, you may need to close certain applications that need to be updated by the installer as displayed in the following figure. Close the application and click **Retry**.

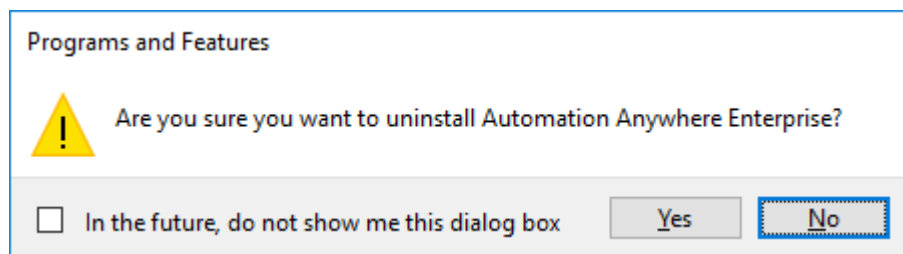


5. Click **Finish** when the uninstallation process is completed.



### 7.1.2 Uninstalling Automation Anywhere Enterprise Control Room from Windows Control Panel

To remove/uninstall Automation Anywhere Control Room, double-click **Automation Anywhere Enterprise** from the Control Panel of your computer. When prompted, click **Yes**. The installer automatically uninstalls the application.





## 8 Appendix A: SQL Server

### 8.1 Setting up SQL Server

Ensure that the Microsoft SQL Server configurations are in place before setting up the database for Control Room.

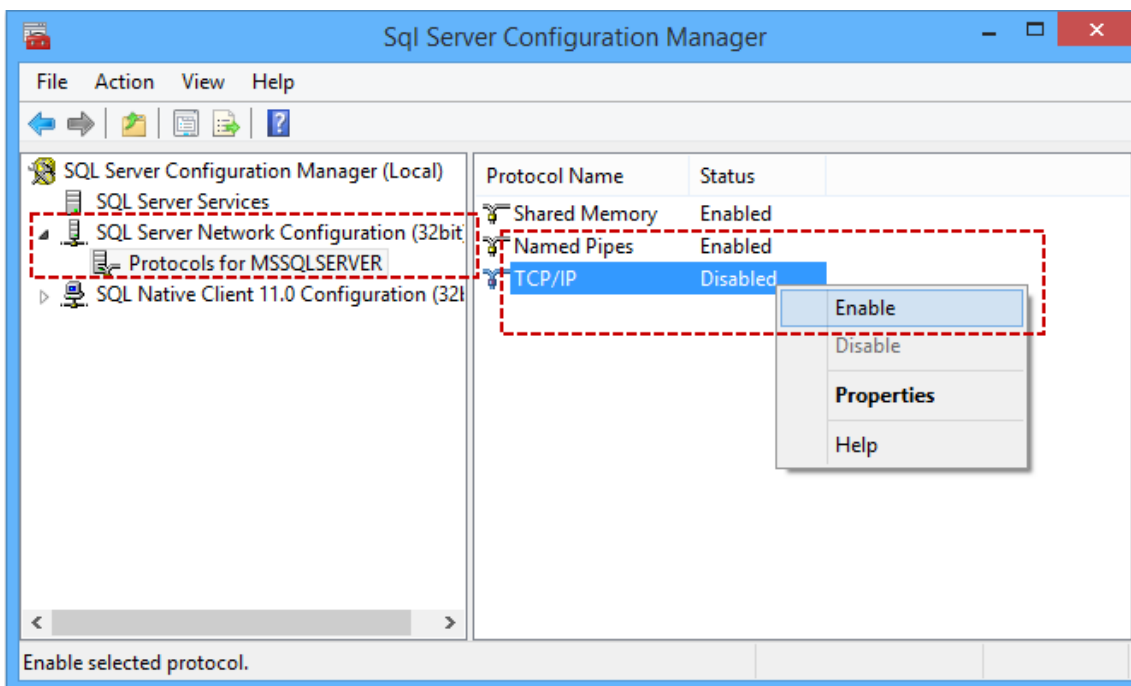
#### 8.1.1 Prerequisites for installing SQL Server

SQL Server Management Studio must be installed. Refer the [Software Requirements](#) section to know supported versions. You must have administrator rights to run the setup.

#### 8.1.2 Configuring SQL Server Settings

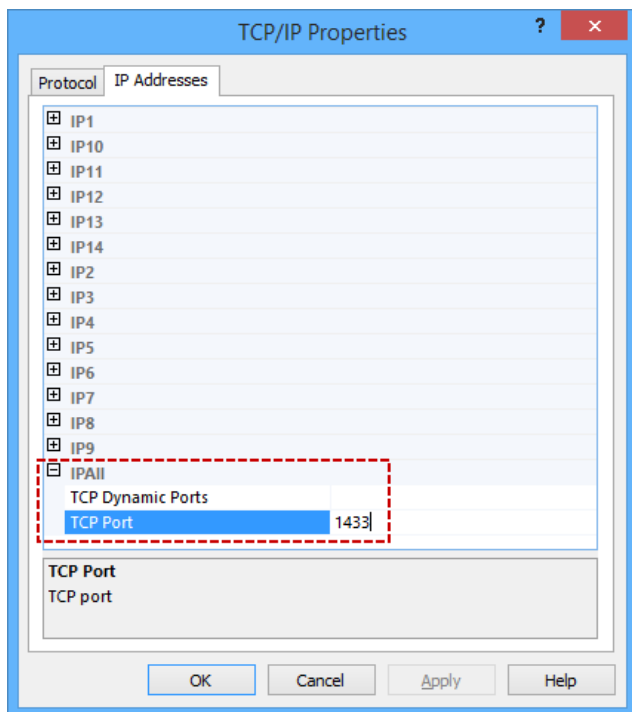
SQL Server settings can be configured in the SQL Server Configuration Manager.

1. Enable protocol for **Named Pipes** and **TCP/IP** in SQL Server Network Configuration → Protocols for MSSQLSERVER as shown:



2. If you **have** opted for custom installation, the next step involves setting the TCP/IP port. Context click (right-click) or double-click TCP/IP protocol, input the port number for *IPAll* in the IP Addresses tab of IP Properties as shown:

**NOTE:** Restart the MSSQLSERVICE for the updates to take effect.



## 8.2 Matrix for creating Database, tables, and services

Service Credentials	Windows Authentication	SQL Authentication
Local System Account	<ul style="list-style-type: none"> <li>Current logged in user account is used to create <ul style="list-style-type: none"> <li>Database</li> <li>Tables</li> </ul> </li> <li>Installer gives db_owner permission to NT AUTHORITY\SYSTEM account</li> </ul>	<ul style="list-style-type: none"> <li>SQL User account is used to create <ul style="list-style-type: none"> <li>Database</li> <li>Tables</li> </ul> </li> </ul>
Domain User Account	<ul style="list-style-type: none"> <li>Current logged in user account is used to create database</li> <li>Domain user account is used to create tables</li> <li>Installer gives db_owner permission to domain user account</li> </ul>	<ul style="list-style-type: none"> <li>SQL User account is used to create <ul style="list-style-type: none"> <li>Database</li> <li>Tables</li> </ul> </li> </ul>

## 9 Appendix B: Automation Anywhere Windows Services

Ensure that the following Windows services are set to running when you install Automation Anywhere Control Room.

Service Name	Description
Automation Anywhere Control Room Service	Receives and processes API requests for the Control Room.
Automation Anywhere Control Room Messaging	Allows Control Room services to communicate asynchronously.
Automation Anywhere Control Room Reverse Proxy	Receives all incoming HTTP and HTTPS requests for Automation Anywhere products and forwards to the correct service.
Automation Anywhere Licensing	Manages licensing information for Automation Anywhere products and services.
Automation Anywhere Bot Insight Service Discovery	Provides the ability for Bot Insight services to find each other.
Automation Anywhere Bot Insight EDC	Used to extract data from Automation Anywhere databases to create dashboards.
Automation Anywhere Bot Insight Scheduler	Periodically updates Automation Anywhere dashboards. This service connects to the Bot Insight Visualization service to update the database.
Automation Anywhere Bot Insight PostgreSQL	The PostgreSQL database server for use by Automation Anywhere.
Automation Anywhere Bot Insight Visualization	Renders service requests for dashboards within the Bot Insight application. Any request that pertains to adding, configuring, or deleting widgets goes through this service.
Automation Anywhere Bot Insight Service	Receives and processes API requests for Bot Insight.

### NOTE:

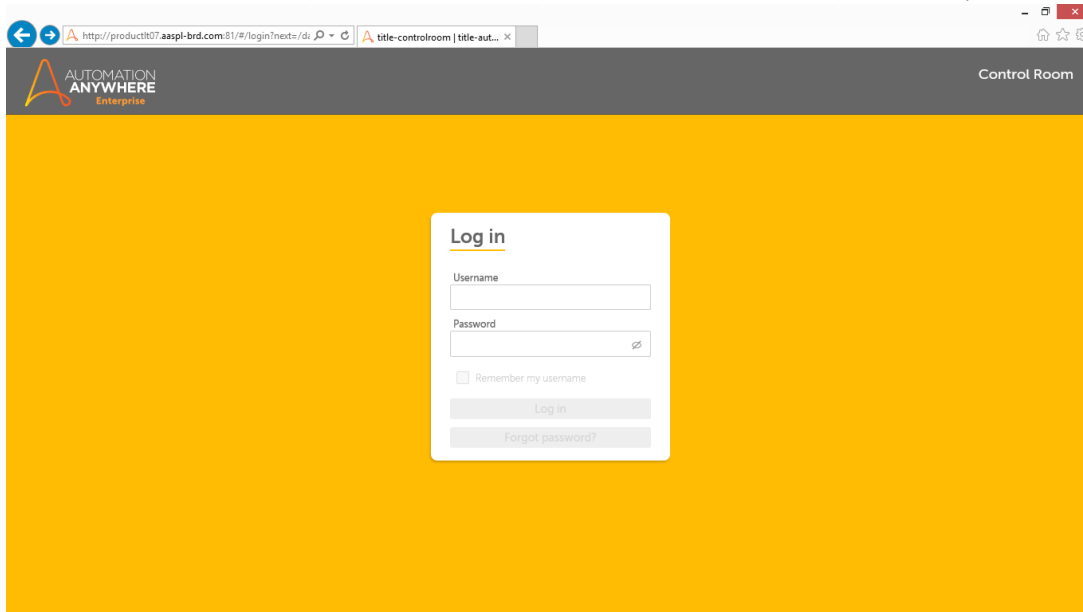
- All the services can be configured either in Local System or Domain account when the Control Room is installed in Custom mode. For a Control Room installed in Express mode, all the services are run in Local System account.

## 10 Appendix C: Configure Control Room for https mode with self-signed certificate

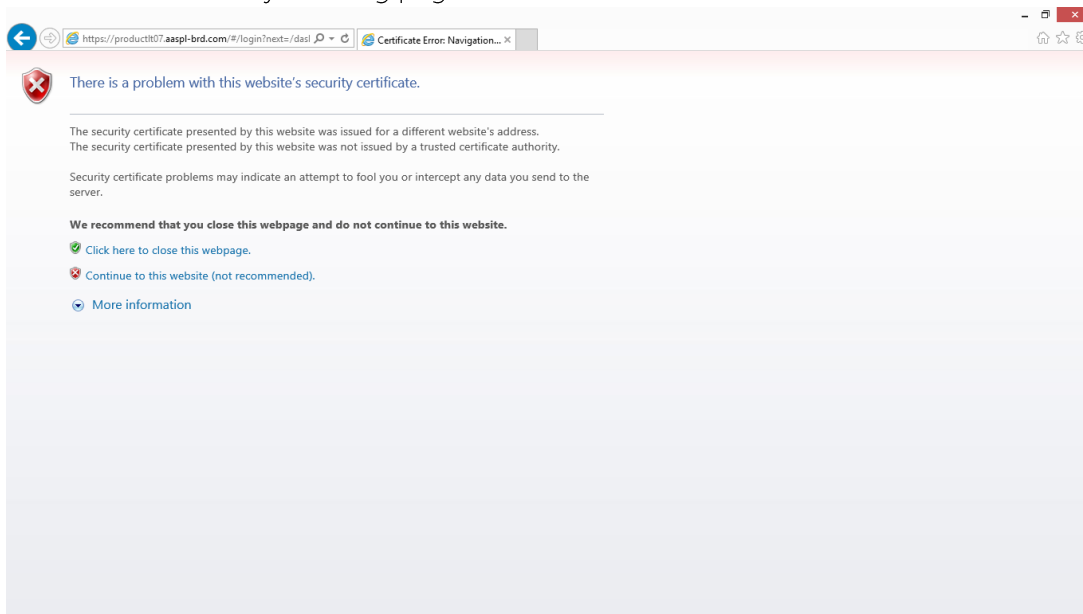
To configure the current version i.e. Enterprise Control Room 11 LTS for https mode using a self-signed certificate, you must follow the below mentioned steps:

1. Launch the Control Room instance in Internet Explorer browser.

**NOTE:** The method explained here is applicable for Internet Explorer only.



2. You will now have to update the Control Room URL. Change **http** to **https** and port number to **443**. For example: <http://product.com:81/> to <https://product.com:443/>
3. The website security warning page is launched:



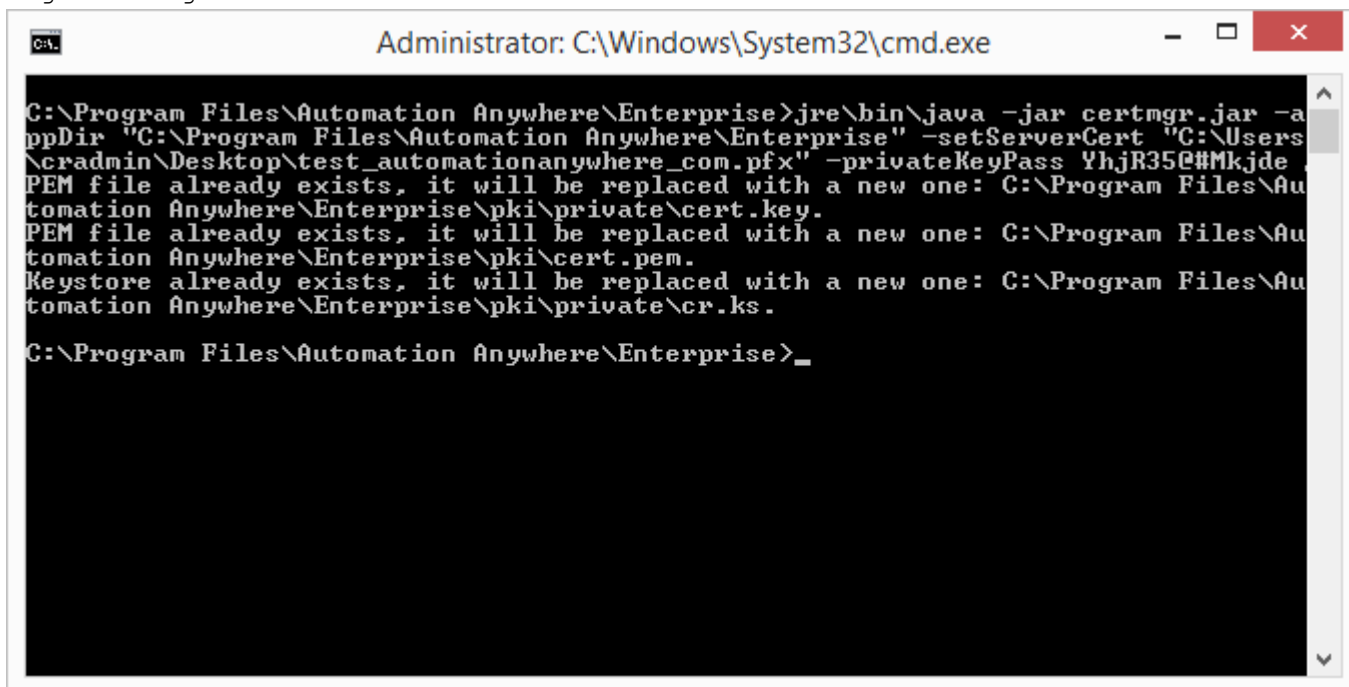
4. Click on **Continue to this website** option to access the Control Room.

## 10.1 Import certificate for https Control Room post installation through command line

To import a certificate for configuring the Control Room for secure connection, use the command line,

1. Run command prompt in administrator mode
2. Go to the AAE installation path - for example, C:\Program Files\Automation Anywhere\Enterprise
3. Type or paste the following command at the prompt:

```
jre\bin\java -jar certmgr.jar -appDir "C:\Program Files\Automation  
Anywhere\Enterprise" -setServerCert  
"C:\Users\cradmin\Desktop\test_automationanywhere_com.pfx" -privateKeyPass  
YhJR35@#Mkjde
```



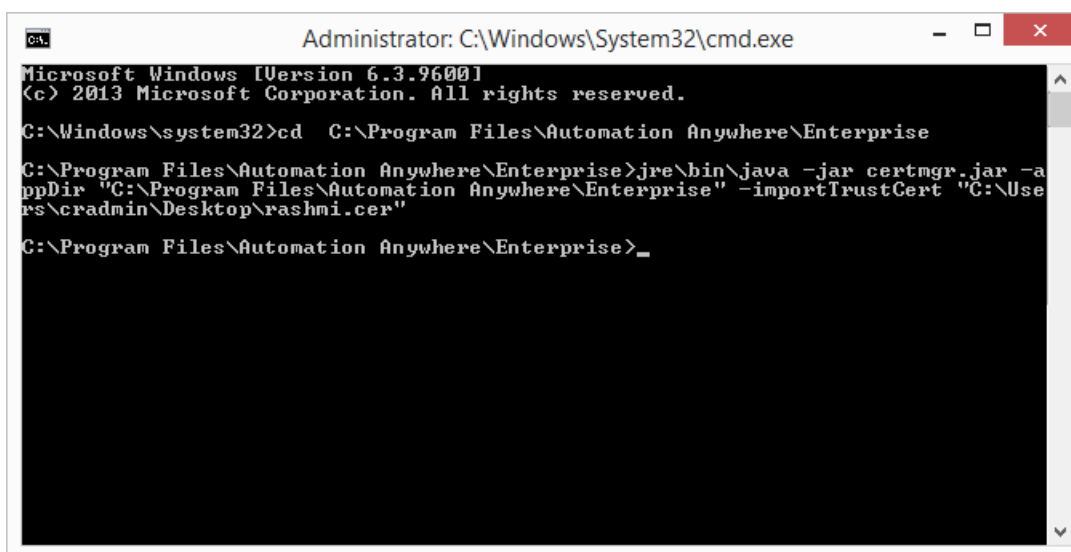
```
Administrator: C:\Windows\System32\cmd.exe  
  
C:\Program Files\Automation Anywhere\Enterprise>jre\bin\java -jar certmgr.jar -a  
ppDir "C:\Program Files\Automation Anywhere\Enterprise" -setServerCert "C:\Users  
\cradmin\Desktop\test_automationanywhere_com.pfx" -privateKeyPass YhJR35@#Mkjde  
.  
PEM file already exists, it will be replaced with a new one: C:\Program Files\Au  
tomation Anywhere\Enterprise\pki\private\cert.key.  
PEM file already exists, it will be replaced with a new one: C:\Program Files\Au  
tomation Anywhere\Enterprise\pki\cert.pem.  
Keystore already exists, it will be replaced with a new one: C:\Program Files\Au  
tomation Anywhere\Enterprise\pki\private\cr.ks.  
  
C:\Program Files\Automation Anywhere\Enterprise>_
```

## 11 Appendix D: Import a CA certificate using command line post installation

To import a CA certificate using the command line post installation,

1. Run command prompt in administrator mode
2. Go to the AAE installation path - for example, C:\Program Files\Automation Anywhere\Enterprise
3. Type or paste the following command at the prompt:

```
jre\bin\java -jar certmgr.jar -appDir "C:\Program Files\Automation Anywhere\Enterprise" -importTrustCert "D:\<user name>\My Downloads\CA31.cer"
```



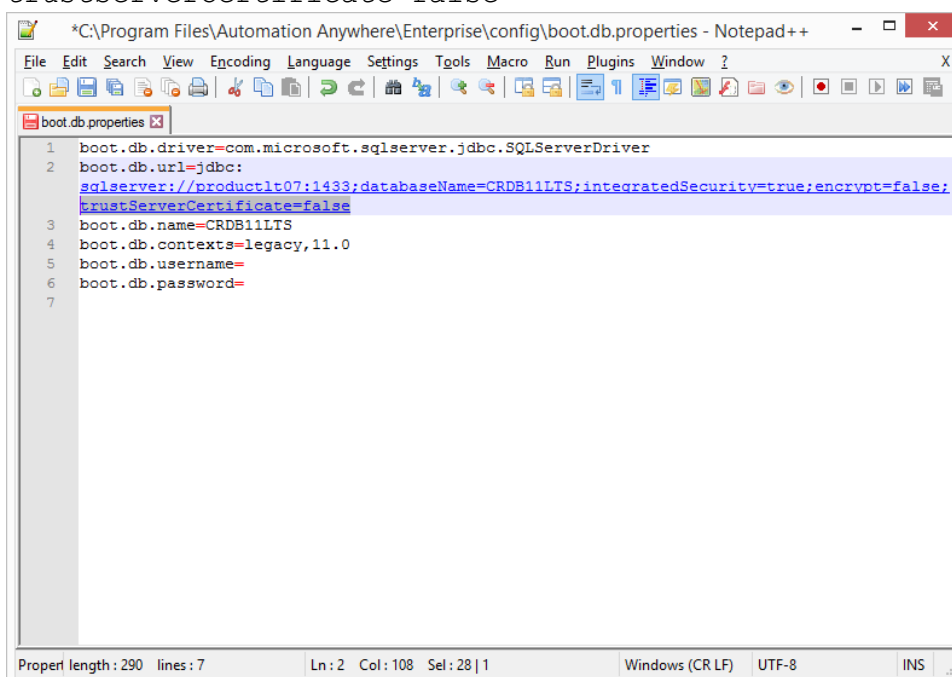
```
Administrator: C:\Windows\System32\cmd.exe
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd C:\Program Files\Automation Anywhere\Enterprise

C:\Program Files\Automation Anywhere\Enterprise>jre\bin\java -jar certmgr.jar -a
ppDir "C:\Program Files\Automation Anywhere\Enterprise" -importTrustCert "C:\Use
rs\cradmin\Desktop\rashmi.cer"

C:\Program Files\Automation Anywhere\Enterprise>_
```

4. You should add the following parameters to the boot.db.properties file that if found in AAE installation path > Config folder - for example, C:\Program Files\Automation Anywhere\Enterprise\config trustServerCertificate=false



```
*C:\Program Files\Automation Anywhere\Enterprise\config\boot.db.properties - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
boot.db.properties
1 boot.db.driver=com.microsoft.sqlserver.jdbc.SQLServerDriver
2 boot.db.url=jdbc:
3 sqlserver://product1t07:1433;databaseName=CRDB11LTS;integratedSecurity=true;encrypt=false;
4 trustServerCertificate=false
5 boot.db.name=CRDB11LTS
6 boot.db.contexts=legacy,11.0
7 boot.db.username=
8 boot.db.password=
9
Properties length: 290 lines: 7 Ln: 2 Col: 108 Sel: 28 | 1 Windows (CR LF) UTF-8 INS
```