

# Trend Micro Apex One™ and iProduct

Disaster Recovery Guide



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### System Requirement

Please prepare at least three (3) Windows Server Platforms for installing the servers below:

- Standalone SQL server
- Apex One main server
- Apex One backup server

Note: For Apex One Main server and Apex One Backup Server, please prepare two (2) identical Windows Server Platforms (i.e. two Windows Server 2016 platforms).

### Preparation for Apex One Main Server

Since the option to export the Apex One Server Authentication Certificate is not allowed after **Apex One On-Premise Patch 3 Build 8378**, this guide must be prepared at the beginning of the Apex One Main Server installation.

Install the Apex One GM Build (2012) and back up the certificate files.

a. After installing the Apex One Main Server (before applying Patch 3 Build 8378), back up the certificate file of Apex One server found under the following path:

<Server installation folder>\AuthCertBackup\OfficeScanAuth.dat

b. Certificate files can also be backed up using the Certificate Manager tool located on **<Server** installation folder>\PCCSRV\Admin\Utility\CertificateManager\. Please use following command to back up the certificate.

CertificateManager.exe -b [password] backup.zip



# Preparation for Apex One Server Backup

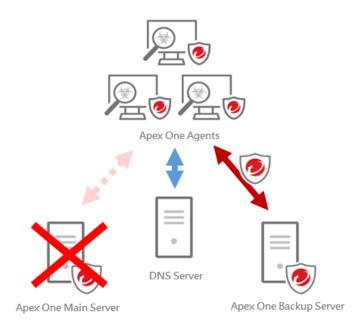
In order to effectively perform this guide, we recommend to prepare the following setup for Apex One Backup Server:



Apex One Main Server vs Apex One Backup Server

- Use the same Web Server type and port
- Use the same FQDN
- Use the same Agent Port
- · Use the same Server Authentication Certificate
- Use the same SQL Sever and Database

# Offsite Backup Considerations



#### **DNS**

Since both main Apex One Server and Apex One Backup Server have to use the same FQDN, ensure all agents are available to connect to the correct Apex One Server by properly switching the DNS setting.



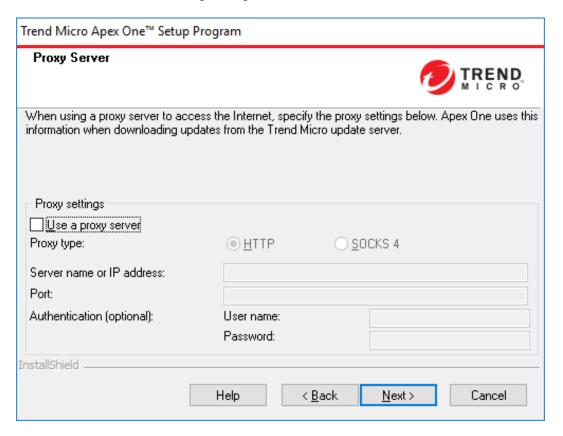
# Apex One Server Setup and Configuration

#### Installation

In order to setup two (2) identical Apex One servers, please make sure the settings should be the same during installation.

### **Proxy Setting**

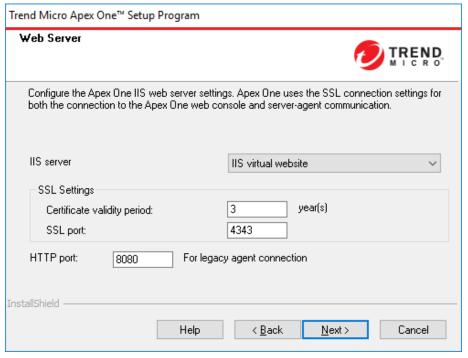
Please use the same networking settings.





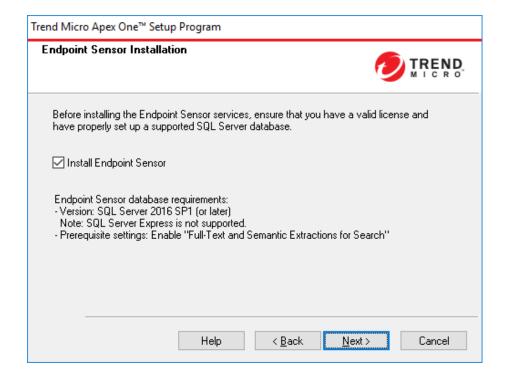
#### Web Server

The Apex One Backup Server has to use the same IIS server setting as default Apex One Server.



### **Install Endpoint Sensor**

This disaster recovery guide supports installing iES or without installing iES. If the Endpoint Sensor will be installed, please install with the same Microsoft SQL instance as Apex One server.





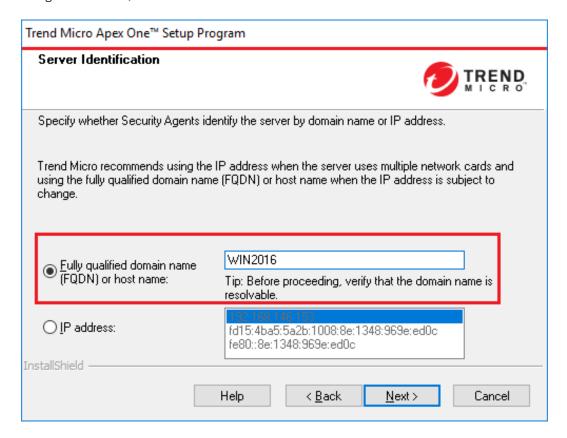
Below are some notes to consider:

- 1. Please prepare another standalone SQL server if the iES needs to be installed on a different Microsoft SQL instance.
- For installing the iES with different MSSQL instance, follow this article: <u>Installing the Apex One</u>
   Endpoint Sensor database and Apex One database in different MSSQL instances (KB 1122929).

  Please ensure that the Apex One Main Server and Backup Server set the same iES settings as well.

#### Server Identification

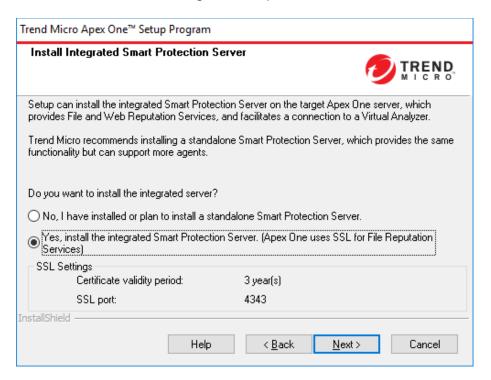
When setting the Server Identification, please make sure that both default server and backup server are using the same FQDN name.





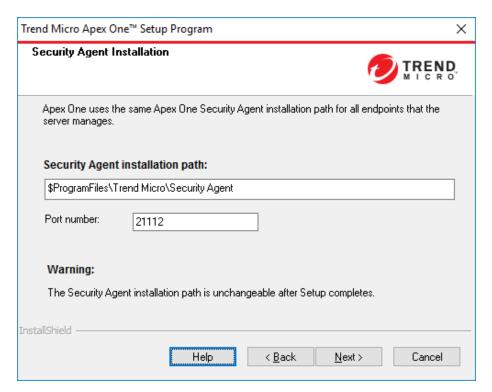
#### **Integrated Smart Protection Server**

Please set the same iSPS setting for both Apex One servers.



#### Agent Port

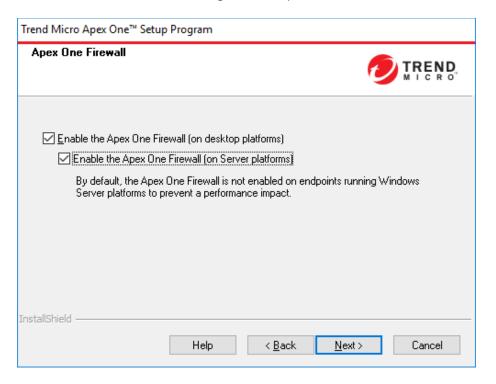
Please set the same agent port for both Apex One servers.



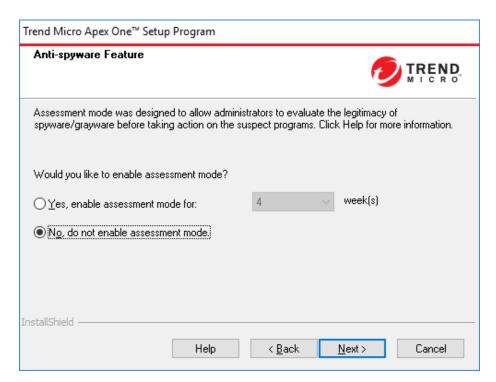


#### Firewall Setting

Please set the same firewall setting for both Apex One servers.



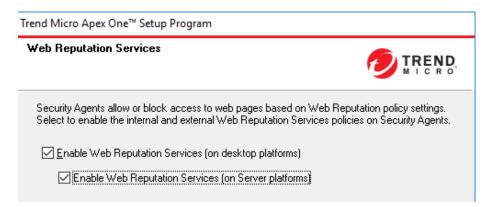
#### Assessment Mode





#### Web Reputation Services

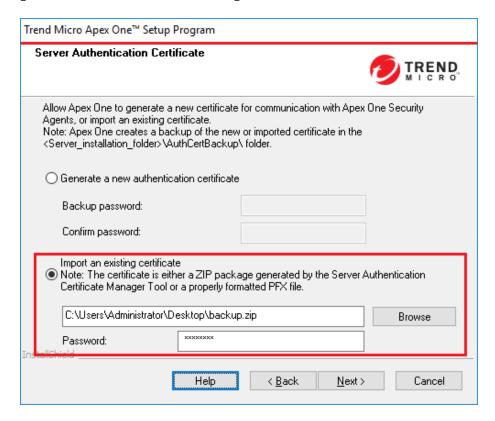
Please set the same Web Reputation for both Apex One servers.



#### Server Authentication Certificate

Please use the same Server Authentication Certificate. Select **Import an existing certificate** and use the original certificate file (OfficeScanAuth.dat) which is from default Apex One server. The file format of the certificate is zip in Apex One.

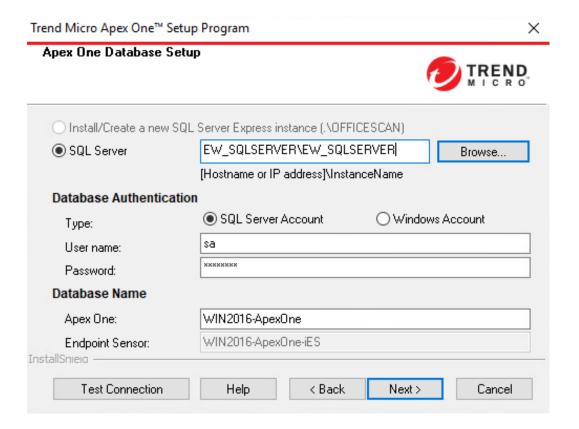
Please modify the file extension to .zip before importing the certificate or the zip file which was generated from the CertificateManager.exe tool.





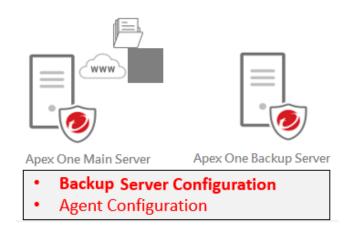
### Connect to the same SQL server as Apex One Main Server

Install the Apex One Backup Server with the same SQL server and the same Database Name as Apex One Main server.





# **Backup Apex One Server Configuration**



### Agent Configuration Backup

To back up the configuration, please use Server Migration Tool located under <Server installation folder>\PCCSRV\Admin\Utility\ServerMigrationTool. This tool can export and import the following Apex One settings:

- Domain structures
- Settings that will be backed up at both root and domain levels:
  - o Scan configurations for all scan types (Manual, Real-time, Scheduled, Scan Now)
  - Web reputation configurations
  - Approved URL list
  - Behavior Monitoring settings
  - Device Control settings
  - Digital Asset Control settings
  - o Privileges and other settings
  - Additional service settings
  - Spyware/Grayware approved list
  - Suspicious connection setting
- Endpoint (Computer) location
- Firewall policies and profiles
- Connection Verification (Scheduled Verification settings)
- Smart Protection sources
- Server update schedule

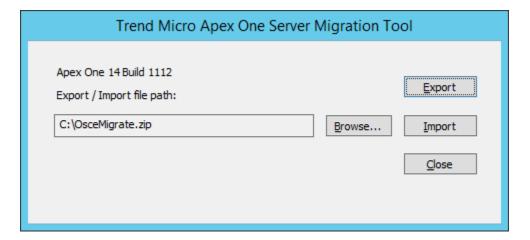


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- Client update source and schedule
- Logs (Log Maintenance)
- Notifications
- Administration
  - Proxy settings
  - o Inactive Agent
  - o Quarantine Manager
  - Web Console Settings

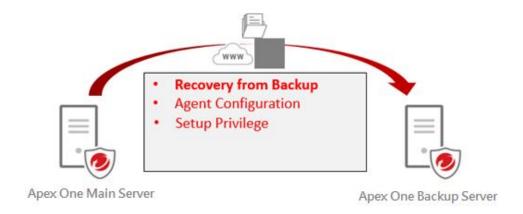
### Trend Micro Apex One Server Migration Tool

Input the Export/Import file path and select **Export**, and a zip file will be generated.





# Apex One Recovery from Backup

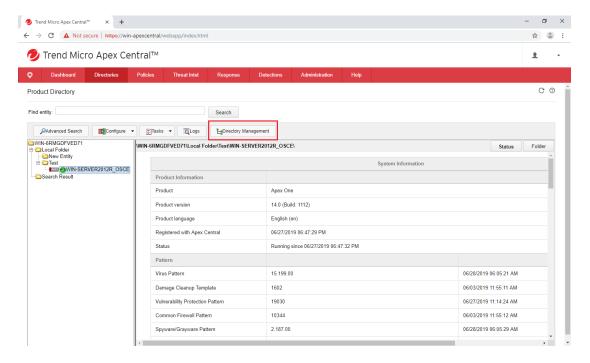


Apex One recovery includes **Agent Configuration**. Before recovering the Apex One server, please follow the steps below.

### Unregister from Apex Central

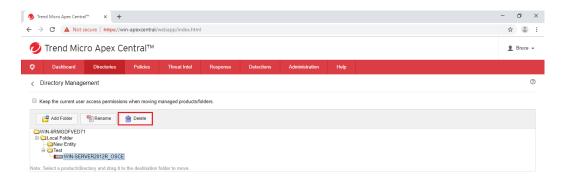
If the Apex One main server has registered to Apex Central, please follow the instructions below to unregister Apex One server from Apex Central:

- 1. Go to Apex Central console > Directories > Products.
- 2. Click on **Directory Management**.



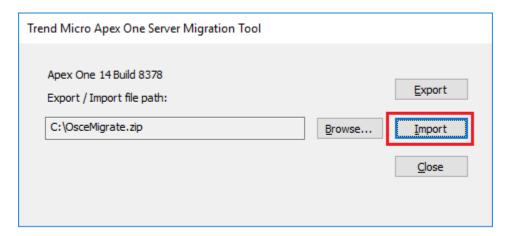


3. Select the server you want to unregister and click **Delete** to unregister the original Apex One main server.



### **Agent Configuration**

To restore the configuration, please use the Server Migration Tool located under <Server installation folder>\PCCSRV\Admin\Utility\ServerMigrationTool to import the backup zip file which was generated in the previous chapter.



### Setup Privilege

After recovering all configurations, please use **svrsvcsetup.exe** located under <Server installation folder>\PCCSRV\ to setup the privilege of Apex One server. Execute the following command:

svrsvcsetup.exe -setprivilege

Note: Please run the command if you have set up any folder/file permission on Apex One Main Server.

In the end, please restart Apex One Master Service and make sure Apex One server is working properly.



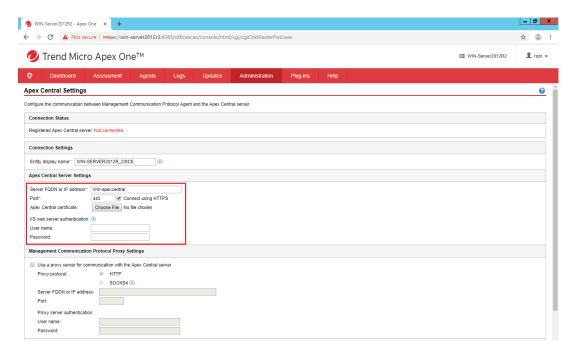
The following services will be started by Apex One Master Service automatically, check the service status after a few minutes:

- Trend Micro Endpoint Sensor Service (if the iES is installed)
- Trend Micro Advanced Threat Assessment Service
- Trend Micro Application Control Service
- Trend Micro Vulnerability Protection

#### Register to Apex Central

If the Apex One main server has registered to Apex Central, please follow the instructions below to register Apex One server to Apex Central instead:

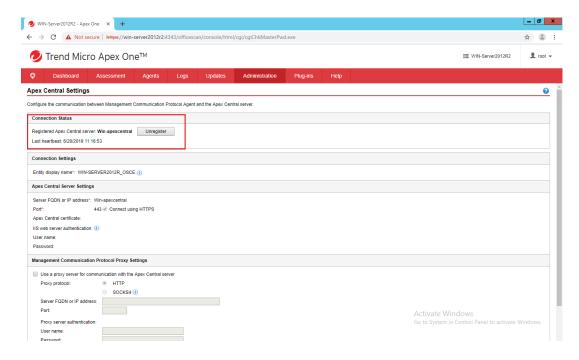
- 1. Go to Trend Micro Apex One console > Administrator > Settings > Apex Central.
- 2. Fill in the information of Apex Central under Apex Central Server Settings.



- 3. Click **Test Connection** at the bottom to verify the connection between Apex One server and Apex Central to make sure the connection is work.
- 4. Click **Register** to register to Apex Central.



5. Check the **Connection Status** section and make sure the Apex One server has registered to the Apex Central server.



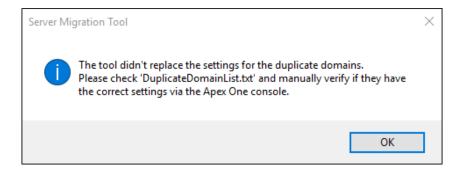
Agent will unload and reload after connecting to the Apex One Backup Server in order to renew some information from the backup server.

# Switch Back to the Apex One Main Server

If the main server is back to normal, the agent can be switched from backup server by the same steps.

Note: As the current spec of Server Migration Tool. A dialogue will pop up when importing the settings to the main server if there is any duplicate domain existing in Agent Management.

Only the added or new domain will be imported.





# Agent's protection when Apex One Server is down

When Apex One Server is down, Apex One Agent's location will show "External" which means that it cannot connect to the Apex One server. Even on this condition, Apex One agent still have the following protection features.



All Protection features are working even when Apex One Server is down. Please see the table below:

Feature	Functional
Application Control	Yes
Behavior Monitoring	Yes
Data Loss Prevention	Yes
Device Control	Yes
Endpoint Sensor	Yes
Firewall	Yes
Outbreak Prevention	Yes



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Predictive Machine Learning	Yes
Real-Time Scan	Yes
Smart Scan	Yes
Suspicious Connection Service	Yes
Vulnerability Protection	Yes
Web Reputation	Yes



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