Welcome to the Endpoint Protection Client Installation

Prerequisites for the Endpoint Protection Client Installation

- The SCCM client must be installed first on the computer before the client can be managed.
- The SCCM client is installed for central management purposes
- This step was covered in the Client Push Installation lecture, so we will not be repeating those steps here.
- After the client installation step has been completed, the Endpoint Protection client can be deployed to the computer.

Installation of Endpoint Protection on Windows 8.1 and earlier

On Windows 8.1 and earlier the EP client is installed in addition to the SCCM client

Windows 10

- If you have a Windows 10 client, then you have the Windows 10 Defender antimalware client already installed, so you don't need to install the EP client.
- You can configure and manage EP settings on windows 10 clients with the System Center Endpoint Antimalware Policy.
- You can install EP using Configuration Manager's Client settings.
- Windows 10 Defender updates must be kept up to date. This can be accomplished by creating and deploying an Automatic Deployment Role.

Pre-Windows 8.1 EP Client Installation

For this lecture, we will be configuring Endpoint Protection Windows 10 clients. I have included a written manual installation for Windows 8.1 and below in case you still have earlier versions of Windows in your organization. Checkout the manual that accompanies this lecture for details.

Manual Installation of Endpoint Protection

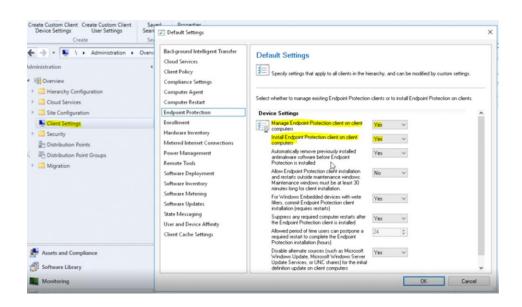
Windows 7

- From your SCCM server open C:\Program Files\Microsoft Configuration
 Manager\Client. Copy the scepinstall.exe and the ep_defaultpolicy.xml file to your installation folder on your Windows 7 client.
- Double click **scepinstall.exe** file and go through the installation wizard.

- Click **next**, click **I accept** on the Software license screen
- Click I do not wat to join the Customer Experience Improvement Program
- Click next, check the turn firewall on, click next
- Click **Install**, check Scan my computer for potential threats after getting the latest updates, click finish
- Install updates.

Windows 10 EP Installation

Configure the Client Settings



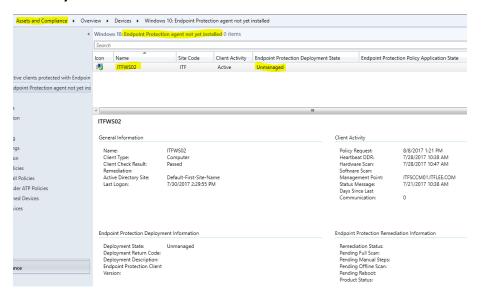
- In the Configuration Manager console from the workspace click Administration, from the Navigation Pane, right click Client settings and click on Create Custom Client Device Settings.
- From the **General** tab to the right type a Name **EP Client Settings**. From below click Endpoint Protection, click **ok**.
- From the list view in the console double click **EP Client Settings**
- On the left pane click **Endpoint Protection**
- From Device Settings **change** all the settings to **Yes** except Allow Endpoint Protection client installation and restarts outside maintenance window. Leave this set **to no.**
- Manage EP client on client computers enables you to use Configuration Manager to manage windows clients.
- Install EP client on client computers When this setting is enabled to a device collection, Endpoint Client will be deployed to all the computers in that collection.

Take Note:

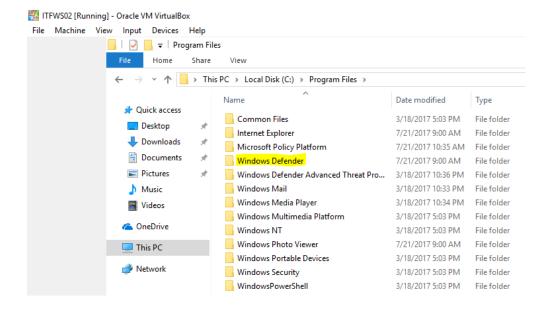
- EP will not install right away, the installation could take up to an hour.
- You can remove other previously installed antimalware software by selecting Yes for Automatically remove previously installed software

Right click on **EP Client Settings, click deploy,** now select a collection click **Windows 10,** then click **ok.**

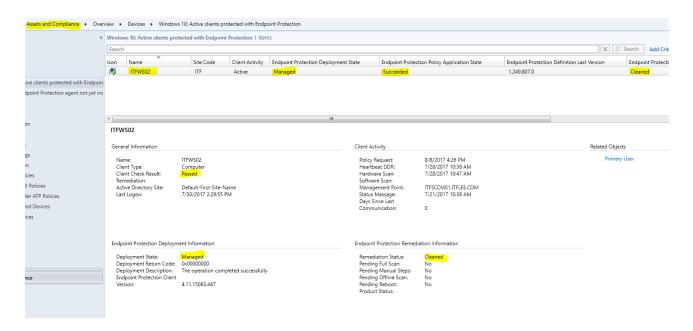
This slide shows ITFWS02 that the SCCM client has been installed but the EP client has not been installed yet.



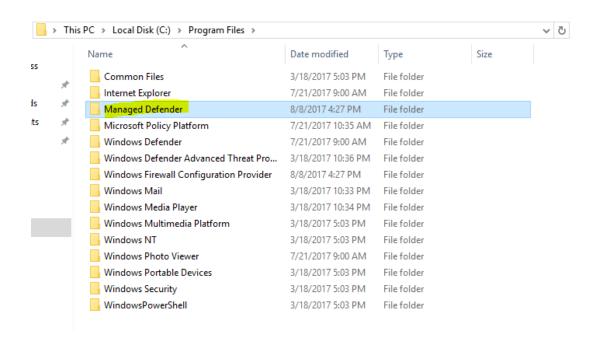
From ITFWS02 this slide shows that the Windows 10 client is unmanaged as well



After about an hour the console show that ITFWS02 in now managed.



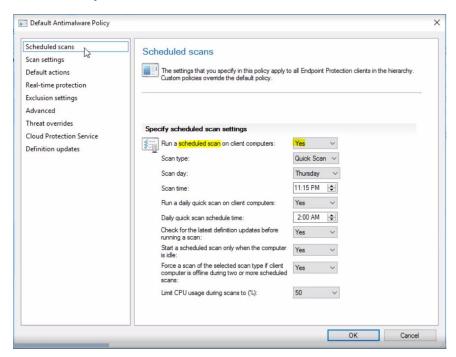
This is what the Client should look like after the installation has been successful.



On the Windows 10 Computer, open the EndpointProtectionAgent.log file with the CMtrace.exe command. You should see Installed EP client installed Successfully.



Antimalware Policy Creation



 Open Configuration Manager console, From the Workspace click Assets and Compliance, from the Navigation Pane expand Endpoint Protection, right click Antimalware Policies and click Create Antimalware Policy.

- From the General tab type a name Type Windows 10 Desktop
- At the bottom **Check all** the selections, click **ok**
- From the Navigation Pane, click Antimalware Policies
- From the Lists View right click Windows 10 Desktop, click properties
- Here we see the categories on the left and the options or settings for each category on the right. Choose these settings to match your organization's needs. For this lecture, I chose the following:

Scheduled Scans

- Run a scheduled scan Choose Yes
- Scan type Choose Quick Scan
- Scan day Select Daily
- Set the Scan Time 6:00 AM
- Set the reset to the default settings
- Scan Settings
- Scan email and attachments Yes
- Scan USB thumb drives Yes
- Scan network files No
- Scan mapped network drives No
- Allow users to configure CPU usage during scans No
- Allow users control of scheduled scans Normally set to no control
- Default Actions
- Severe Choose remove
- High Choose remove
- Medium and Low Choose Quarantine

Real Time Protection

- Enable real-time protection Set to Yes
- Scanning system files Scan incoming and outgoing files
- Enable behavior monitoring Set to Yes
- Enable protection against network-based exploits Set to Yes
- The rest set to default

Exclusion Settings

Accept the defaults

Advanced

Accept the default settings

Threat Overrides

• Accept the defaults, then move on.

Cloud Protection Services

Accept default Basic membership

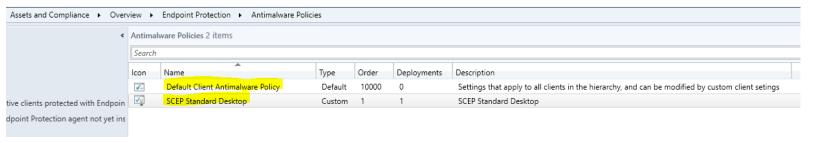
Definition Updates

- Set time interval to 1 hour, accept the defaults
- Set Source Uncheck all except Updates distributed from Configuration Manager, click
 ok

Deploy the Custom Antimalware Policy to a Collection

From the List View, right click on the Windows 10 Desktop Policy, click Deploy, Choose a
device Collection.

How can we prove that the Windows 10 client has received the default and the custom malware policy as shown in this slide?



Depending upon the version of Windows Defender that you have. If you open settings, help, about, if your windows 10 WS is managed you should see the three antimalware policies listed at the bottom of the screen.

Windows Defender Security Center

About

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System information

Antimalware Client Version: 4.11.15063.447
Engine Version: 1.1.14003.0
Antivirus Version: 1.249.807.0
Antispyware Version: 1.249.807.0
Network Realtime Inspection Engine Version: 2.1.13804.0
Network Realtime Inspection Signature Version: 117.7.0.0
Policy Name: Default Client Antimalware Policy
SCEP Standard Desktop
Policy Applied: 2017-08-08T20:42:54.472Z

Another method to verify the EP client installation is to use Windows Powershell to search the registry for the last applied policy statement.

Open Windows Powershell and type

- Reg Query hklm\software\microsoft\ccm\epagent\lastappliedpolicy /f 2 /d double check
- You can see the SCEP standard desktop policy the Default Client Antimalware Policy and the Windows 10 Desktop Policy have all been applied to this computer.

```
Administrator: Windows PowerShell

PS C:\Windows\system32> Reg query hklm\software\microsoft\ccm\epagent\lastappliedpolicy /f 2 /d

HKEY_LOCAL_MACHINE\software\microsoft\ccm\epagent\lastappliedpolicy | 7 / 2 /d

HKEY_LOCAL_MACHINE\microsoft\ccm\epagent\lastappliedpolicy | 7 / 2 /d

HKEY_LOCAL_MACHINE\software\microsoft\ccm\epagent\lastappliedpolicy | 7 / 2 /d

HKEY_LOCAL_MACHINE\software\microsoft\ccm\epagent\lastappliedpolicy | 7 / 2 / d

HKEY_LOCAL_MACHINE\software\microsoft\ccm\epagent\lastappliedpolicy | 7 / 2 / d

HKEY_LOCAL_MACHINE\software\microsoft\epagent\lastappliedpolicy | 7 / 2 / d

HKEY_LOCAL_MACHINE\software\microsoft\epagent\lastappliedpolicy | 7 / 2 / d

HKEY_LOCAL_MACHINE\software
```

Setting up Alerts

 From the Workspace click Assets and Compliance, from the Navigation Pane click Device Collections

- Right click the target collection on which you deployed the antimalware policy, click properties, then click Alerts, check the box that says View this collection in the Endpoint Protection Dashboard. Click Add.
- In the Add New Collection Alerts check all the options except the last option, click ok, then ok again.

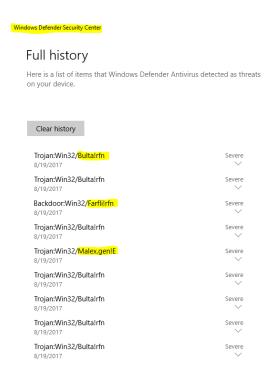
Windows Firewall Policies

- For this lecture here are the settings, your settings may be different. The settings are based upon the needs of your organization.
- From the Workspace, click Assets and Compliance, then from the Navigation Pane click Endpoint Protection.
- Right click Windows Firewall Policies, click Create Windows Firewall Policy
- For a name type ITFLEE Firewall Policy, click next
- Categories to the left, options to the right.
- Enable Windows Firewall
- Under Profile Settings, Domain Profile, change to Yes.
- For Private profile, change to Yes
- change to Yes
- Block all incoming connections With these settings below, any inbound traffic originating from outside of our machine would be blocked.
- Domain Profile, change to Yes.
- For Private profile, change to Yes
- Public Profile change to Yes
- Notification
- Domain Profile, change to Yes.
- For Private profile, change to Yes
- Public Profile change to Yes

Testing the Effectiveness of Endpoint Protection and Windows Defender

- I purposely downloaded a number of Malware, Trojans and various other nasty computer viruses just to test the effectiveness of Windows Defender.
- I have to say this!! I would definitely not recommend downloading and installing Malware and viruses on your production network.
- If you would like to test the capabilities of EP and Windows Defender, I would recommend that you disconnect the target computer from your labs network so that the Malware has no opportunity to spread to the other VM's in your lab.
- From the Windows 10 computer ITFSW02 open Windows Defender, open Scan History,
 See full history

Displayed is the list of Trojans and Malware that Windows Defender detected.



Bultarfn is a Trojan that can steal your personal information and send it off to a hacker or give a malicious hacker access to your PC. (Rated as severe)
I installed this Trojan seven times on this computer.

- Farfli!rfn This threat can give a malicious hacker unauthorized access and control of your PC. (Rated as severe)
- Malex.gen!E This is a malicious file that attempts to copy itself in certain folders
 without the users consent or knowledge. This trojan is able to open a backdoor to allow
 remote hackers access to your PC. This trojan can change your PC settings, block Antivirus software, and cause identity theft. Considered a serious threat.

Now let's use the SCCM SQL Server Reporting Services to check out the effectiveness of Windows Defender

- From the SCCM server open Configuration Manager, from the Workspace click Monitoring.
- From the Navigation Pane click **Reporting**, from Report Manager, click the reports server, in this case itfsccm01.
- Login to Windows Security, click configMgr ITF
- Click Endpoint Protection, then click Infected Computers
- From Collection Name, click Windows 10

- From Start Date type 8/20/2017
- Then click View Report
- Double click ITFWS02, scroll down and there is the list of malware and trojans that were installed on the Windows computers.
- To the right under action, you can see that Windows Defender was successful in each case to remove these serious threats.

Congratulations you have completed this lecture. Thanks for watching and we will see you in the next lecture.