Monitoring Third Party A/V with the A/V Status Service



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Introduction

MSP N-central provides built-in, marketing leading A/V support based on the Bitdefender engine, and that integration includes monitoring the overall state of the A/V solution. For other A/V products though, SolarWinds MSP recommends the use of the **AV Status** service.

This document outlines how to configure N-central to monitor 3rd party A/V products, using the AV Status service and the AV Status script, and is meant for a technical audience who is familiar with both N-central and managing Windows environments.

Overview

To monitor one of the supported third party antivirus solutions you will need to add the "AV Status" service to a device that has been licensed with a Professional node and execute the "AV Status" script found on the NRC as a Scheduled Task once a day. The AV Status script will edit a WMI value that the AV Status service will monitor; keeping you up to date on the third party AV details including the type installed, whether or not the AV product is running, and whether or not it is up to date.

For an up to date list of supported antivirus products, please refer to the FAQ section at the end of this document.

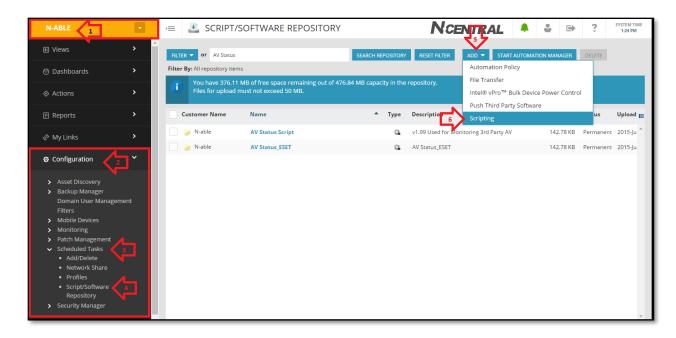
Testing

If you are unsure if the AV Status script will work with your AV, then you can test it on a few devices. This step is not necessary as the AV Status script more often than not can detect any AV. If you wish to skip this section, jump to Deployment.

1. Navigate to the NRC and download the script:

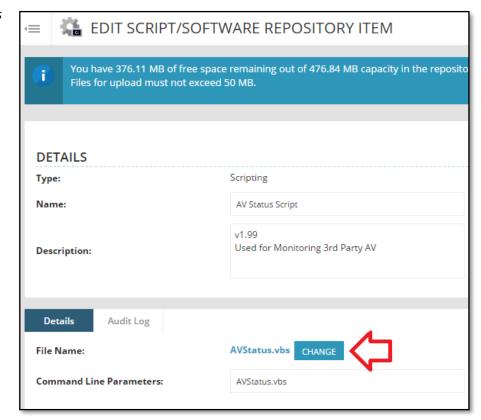
https://nrc.n-able.com/Community/Scripts-Automation-Policies?fileid=418

- 2. Extract the AVStatus.vbs file
- 3. Import the script into N-central
 - 1: Go to the SO level
 - 2: Navigate to Configuration -> Scheduled Tasks -> Script/Software Repository
 - 3: Click the **Add** button, and choose **Scripting** from the drop-down menu



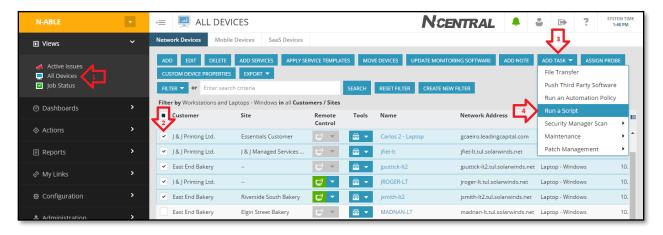
Note: The AV Status script is updated regularly. It is highly recommended you update the script in your repository on a regular basis.

To update the script in future, simply open the Script Repository as detailed above, select the existing AV Status script and click on "CHANGE". You will be prompted to direct N-central to import the new version. Once uploaded, this new version will be used on all devices moving forward.

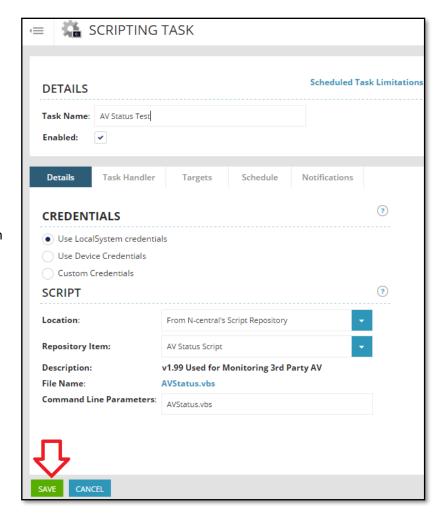


- 4. Run the script across a few devices that have third party AV:
 - 1: Navigate to the All Devices view (any level)

- 2: Select a few devices that have professional licenses. (remember them)
- 3: Click the Add Task button and choose Run a Script from the drop-down menu



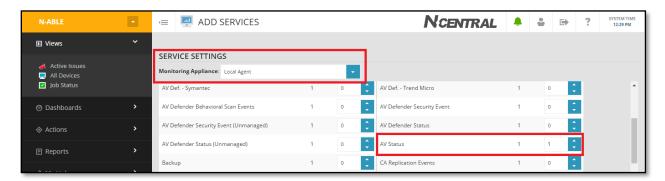
- 5. Run the script with the following options:
- 1: **Credentials:** Use LocalSystem credentials
- 2: **Script**: From N-central's Script Repository
- 3: Repository Item: AV Status Script
- 4: No Command Line
 Parameters other than
 the default
- 5: Leave everything else as default and **Save** to run



- 6. Add the AV Status service to the earlier targeted devices. Navigate to:
 - 1: All Devices view
 - 2: Select the same few devices as before
 - 3: Add Services

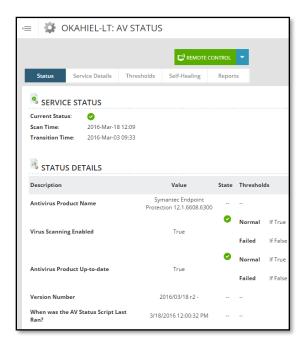


7. Change the number of instances for the AV Status service to 1. Ensure that the monitoring appliance is selected as the Local Agent. If that option does not exist, it means a device selected does not have an agent installed.



8. Confirm the monitoring is working correctly by either checking the Manage – Antivirus dashboard (default) or navigating to a device:





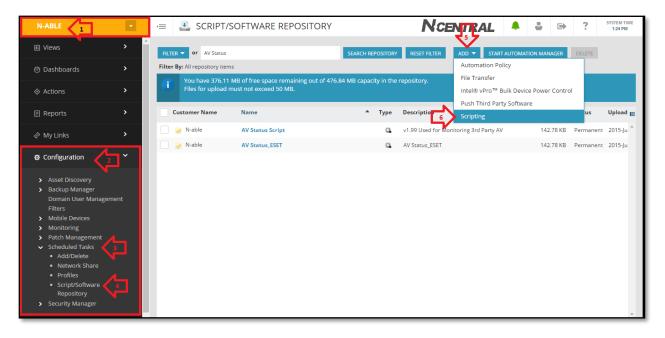
Deployment

We will be building a collection of Filters, Templates, and Rules in N-central at the Service Organization Level. This will automate the application and removal of the AV Status script/service where needed.

1. Navigate to the NRC and download the script:

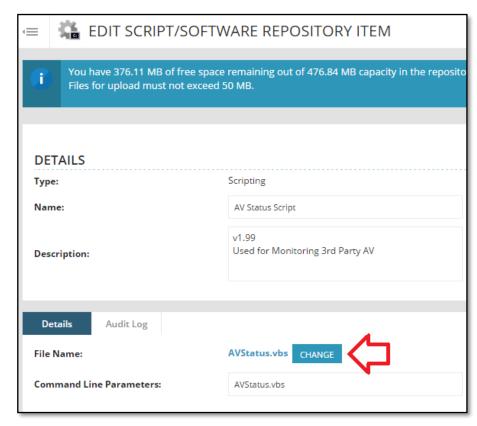
https://nrc.n-able.com/Community/Scripts-Automation-Policies?fileid=418

- 2. Extract the AVStatus.vbs file
- 3. Import the script into N-central
 - 1: Go to the SO level
 - 2: Navigate to Configuration -> Scheduled Tasks -> Script/Software Repository
 - 3: Click the Add button, and choose Scripting from the drop-down menu

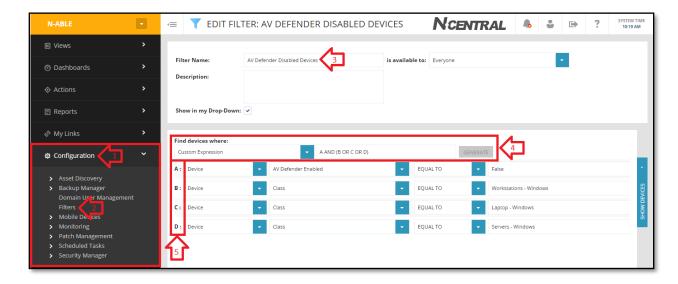


Note: The AV Status script is updated regularly. It is highly recommended you update the script in your repository on a regular basis.

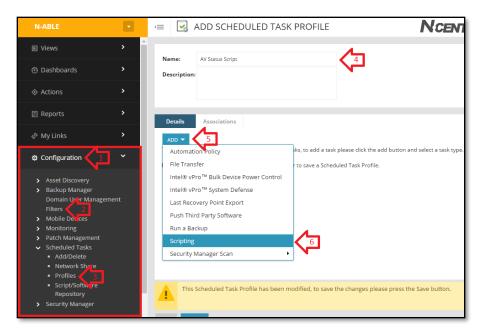
To update the script in future, simply open the Script Repository as detailed above, select the existing AV Status script and click on "CHANGE". You will be prompted to direct N-central to import the new version. Once uploaded, this new version will be used on all devices moving forward.



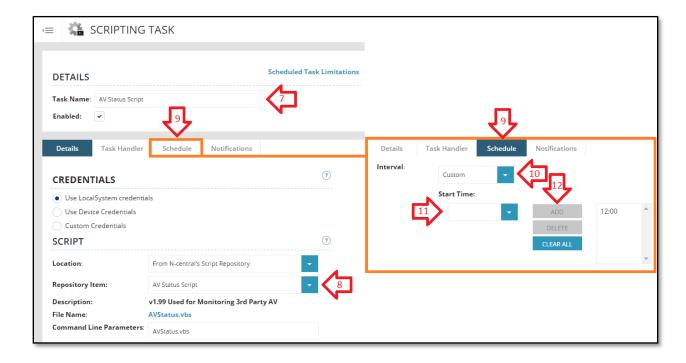
- 4. Create a new Filter to identify devices that do not have AV Defender Enabled, Navigate to:
 - 1: Configuration >
 - 2: Filters > Add
 - 3: Name the filter 'AV Defender Disabled Devices'
 - 4: Set the custom expression under 'Find devices where' to A AND (B OR C OR D)
 - 5: Copy the 4 filtering requirements below



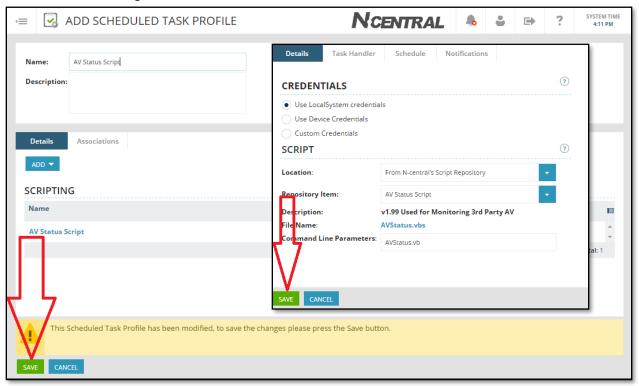
- 5. Create a Scheduled Task Profile to run the AV Status script:
 - 1: Navigate to Configuration -> Scheduled Tasks -> Profiles
 - 2: Click the **Add** button
 - 3: Name the profile 'AV Status Script'
 - 4: Click the Add button, and choose Scripting from the dropdown menu



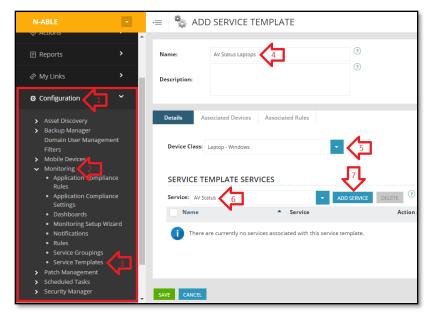
- 5: Name the Task 'AV Status Script'
- 6: Find the AV Status Script from the Repository
- 7: Click on the Schedule tab
- 8: Choose "Custom" Interval
- 9: Select a start time where typically the machines are online
- 10: Click the Add button



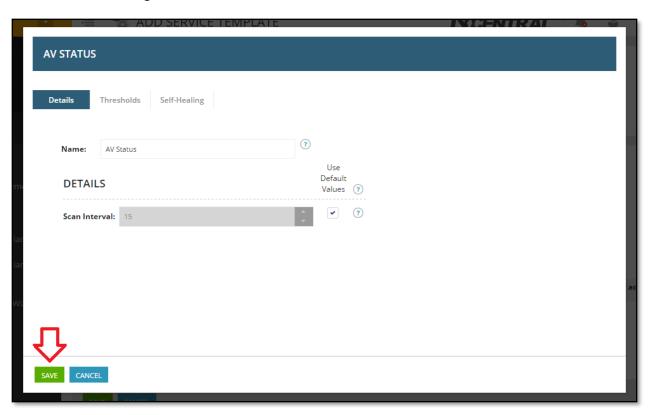
11: Do not forget to hit Save! Twice!



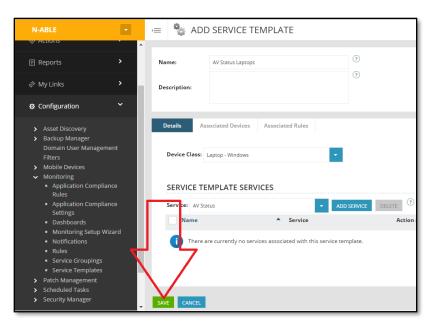
- 6. Create three Service Templates from the Service Organization level (orange) that add the AV Status service. Navigate to:
 - 1: Configuration >
 - 2: Monitoring >
 - 3: Service Templates > Add
 - 4: Name the template 'AV Status Laptops'
 - 5: Select the device class 'Laptop – Windows'
 - 6: In the service dropdown find 'AV Status'
 - 7: Add Service



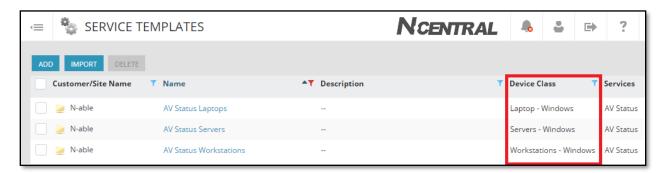
8: Nothing needs to be done to the service once added, hit **Save**



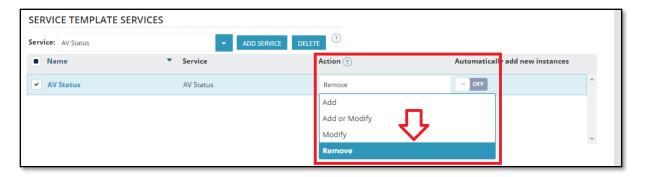
9: Do not forget to hit **Save** again!



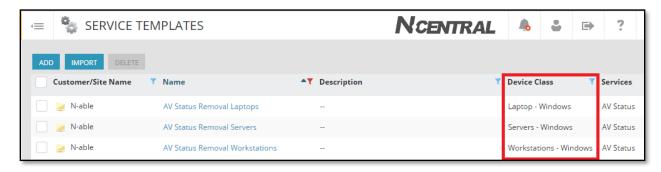
7. Repeat this process for Workstations and Servers. Service templates are tied to device classes, which requires a separate template. The templates cannot be cloned. The goal is to have three templates as such (ensure the device classes are unique!):



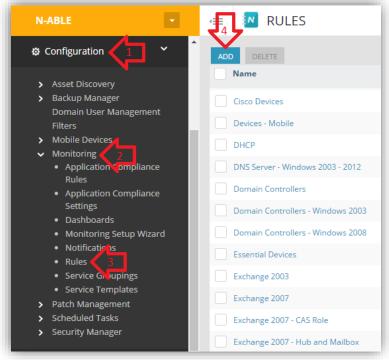
8. Create three more service templates, this time that remove the AV Status service. This template is used when applying AV Defender to devices that already have AV Status applied to them, cleaning up the monitored services. The templates created are largely identical (see step 6), except for this difference.



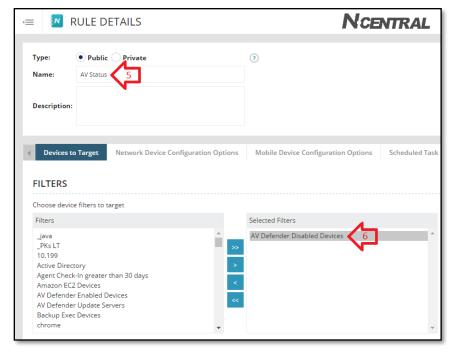
9. The goal is to have 3 more templates that remove AV Status, as such (ensure the device classes are unique again!):



- 10. Create a Rule to deploy the script and apply the service templates. This will tie together all that was created so far. At your service organization level navigate to:
 - 1: Configuration >
 - 2: Monitoring
 - 3: Rules
 - 4: Add



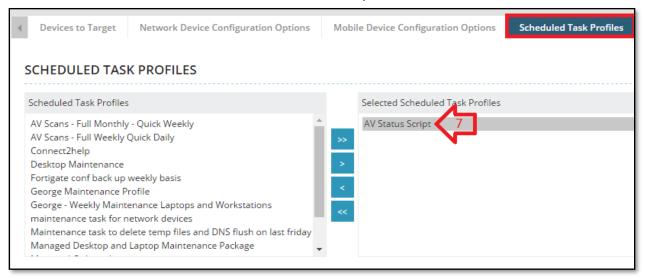
- 5: Name the rule 'AV Status'
- 6: Devices to Target tab AV Defender Disabled Devices



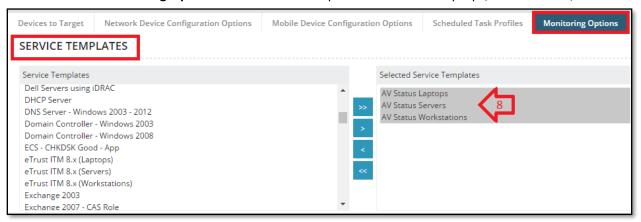
i. If the filter is not there, ensure it is public from Configuration > Filters



7: Scheduled Task Profiles tab – AV Status Script



8: Monitoring Options tab – Service Templates – AV Status Laptops/Workstations/Servers



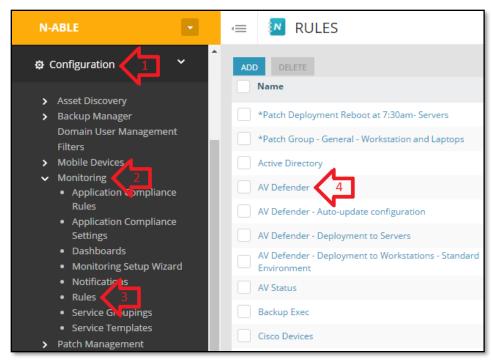
- 9: Grant Customers & Sites Access tab All Customers All Sites
- 10: Propagate to All New Customers/Sites
- 11: Save!



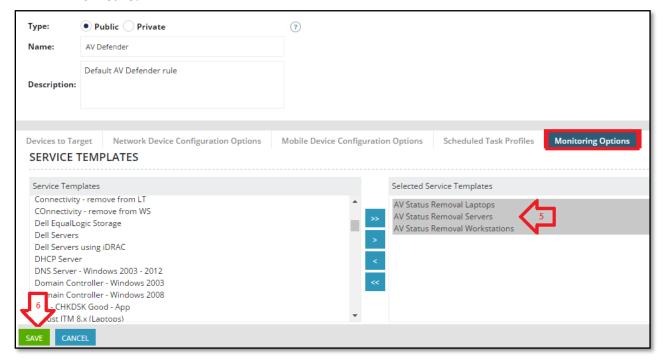
11. The removal templates can be added to a pre-existing Rule, at your Service Organization level

navigate to:

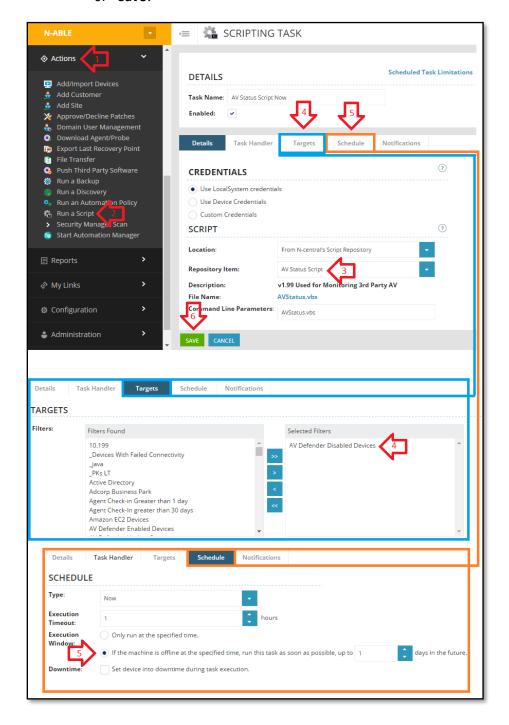
- 1: Configuration
- 2: Monitoring
- 3: Rules
- 4: AV Defender



- 5: **Monitoring Options tab** Service Templates AV Status Removal Laptops/Workstations/Servers
- 6: **Save!**

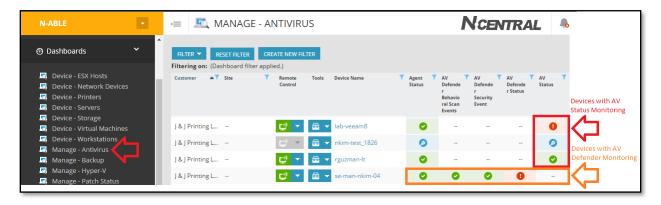


- 12. At this point, the configuration is complete, and the AV Status Script will run on the scheduled time back on step 5-11. If you would like to run the script now, Navigate to:
 - 1: Actions >
 - 2: Run a Script
 - 3: AV Status Script
 - 4: Targets > AV Defender Disabled Devices
 - 5: **Schedule** > If the machine is offline, run this task as soon as possible...
 - 6: **Save**!



Confirmation

In order to confirm if the monitoring works correctly, there is already a dashboard you can leverage. **Navigate to Manage –Antivirus under dashboards:**



As for the Status Icons:

- Normal: Monitoring working correctly and a 3rd Party AV was found and is up to date
- Failed: Monitoring working correctly and a 3rd Party AV was not found or is out of date
- Disconnected: Workstation/Laptop offline
- Misconfigured: Script didn't run
- No Data: Still running first scan
- Stale: Agent is offline

The process is complete, to summarize:

- A filter was created to identify devices with and without AV Defender
- A service template was created to apply monitoring of AV Status
- Another template was created to remove AV Status
- A scheduled task profile was created to run the AV Status Script
- A rule was created to tie it all together and automatically deploy AV Status to current and new devices.

FAQ

What A/V Products does the AV Status script support?

- Avast 9.0
- AVG 2012 (for Windows Vista/7/8 only Server-class OS' are not supported)
- AVG 2013 (for Windows Vista/7/8 only Server-class OS' are not supported)
- AVG Antivirus Business Edition (2013) (for Windows Vista/7/8 only Server-class OS' are not supported)
- AVG 2014 (desktop and server)
- AVG Business Security 18.8
- AVG Protection
- Avira AntiVirus 12.x
- Avira Antivirus 10.x (Server)
- Bitdefender Endpoint Security Tools
- Carbon Black Cloud
- Cisco Advanced Malware Protection (AMP) detection of the product only
- Cylance Protect
- ESET Endpoint Antivirus
- ESET Endpoint Security
- ESET File Security
- ESET Mail Security
- ESET NOD32 Antivirus 4.x
- ESET NOD32 Antivirus 5.x
- ESET NOD32 Antivirus 6.x
- FortiClient AV 6.x
- F-Secure Client Security 8.x, 9.x
- F-Secure Protection Suite Business (PSB) 4.x
- FireEye Endpoint Security
- Kaspersky 6.0
- Kaspersky 8.0
- Kaspersky 6.0 Enterprise
- Kaspersky 8.0 Enterprise
- Kaspersky Endpoint Security 10 for Windows
- Kaspersky Endpoint Security 10 SP1 for Windows
- Kaspersky Endpoint Security 10 SP2 for Windows
- Kaspersky Endpoint Security 11 for Windows
- Kaspersky Anti-Virus 2012
- Kaspersky Small Office Security 2
- Kaspersky Small Office Security 3
- McAfee Antivirus 8.7 thru 8.8
- McAfee Endpoint Security 10
- McAfee Endpoint Security 10.1
- McAfee Move AV Client 5.0

- McAfee Security-As-A-Service 5.x
- Microsoft Defender
- Microsoft Forefront
- Microsoft Security Essentials (MSE)
- Microsoft System Center Endpoint Protection (SCEP)
- Norman Anti Virus
- Panda Adaptive Defence 360
- Panda Cloud Endpoint Protection 6.11
- SentinelOne Endpoint Security
- Sophos Antivirus 9.x
- Sophos Antivirus 10.6 and above
- Sophos Endpoint Protection
- Symantec Antivirus
- Symantec Endpoint Protection 11.x and 12.x
- Symantec Endpoint Security
- Symantec Endpoint.Cloud 20.x and above
- Symantec Endpoint Protection SBE2013
- Total Defense r12
- Trend Micro Apex One Security
- Trend Micro Deep Security Agent
- Trend Micro Messaging Security Agent
- Trend Micro OfficeScan
- Trend Micro Worry-Free Business Security 16
- Trend Micro Worry-Free Business Security 6.x
- Trend Micro Worry-Free Business Security 7.x
- Trend Micro Worry-Free Business Security 8.x
- Trend Micro Worry-Free Business Security 9.x
- Trend Micro Worry-Free Business Security Services
- Trend Micro WFBSH Agent
- Vipre Antivirus 4.x
- Vipre Enterprise Agent 4.x
- Vipre Antivirus Business 5.x
- Vipre Antivirus 2012
- Vipre Business Agent (ThreatTrack Security, Inc)
- Vipre Business Online 6.x
- Webroot SecureAnywhere
- Windows Defender

What AV Products are not supported by the AV Status script?

Any AV products not explicitly listed above are unsupported by the AV Status script. Notable mentions include AVG CloudCare, AV Defender, and Bitdefender.