```
#Import the connectivity test
   C:\Users\ncterry\Desktop
.\HTTP-Connectivity-Tester\Examples\Microsoft\WindowsDefenderAntivirus
cd
#Import the connectivity test
Import-Module -Name .\WDAVConnectivity.psm1
#An example of a test.
$connectivity = Get-WDAVConnectivity -Verbose
$connectivity | Format-List -Property
Blocked,TestUrl,UnblockUrl,DnsAliases,IpAddresses,Description,Resolved,ActualStatusCode,ExpectedSta
tusCode,UnexpectedStatus
               -----
# Same 5 lines again, but it will import and run the adjusted ps1 module that we changed.
Testing https://wdcp.microsoft.com/
Test Url: https://wdcp.microsoft.com/
Url to Unblock: https://*.wdcp.microsoft.com
Url Type: Pattern
Description: Windows Defender Antivirus cloud-delivered protection service, also referred to as Mic rosoft Active Protection Service (MAPS). Used by Windows Defender Antivirus to provide cloud-delive
red protection.
Resolved: True
IP Addresses: 13.82.144.201
DNS Aliases: wd-prod-cp.trafficmanager.net, wd-prod-cp-us-east-2-fe.eastus.cloudapp.azure.com
Actual Status Code: <u>503</u>
Expected Status Code: 503
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
Testing https://wdcpalt.microsoft.com/
VERBOSE:
Test Url: https://wdcpalt.microsoft.com/
Url to Unblock: https://wdcpalt.microsoft.com
Url to Unblock: n
Url Type: Literal
Description: Windows Defender Antivirus cloud-delivered protection service, also referred to as Mic rosoft Active Protection Service (MAPS). Used by Windows Defender Antivirus to provide cloud-delive
red protection.
Resolved: True
IP Addresses: 13.82.144.201
DNS Aliases: wd-prod-cp.trafficmanager.net, wd-prod-cp-us-east-2-fe.ea<u>stus.cloudapp.azure.com</u>
Actual Status Code: <u>503</u>
Expected Status Code: 503
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
Testing https://update.microsoft.com/
Test Url: https://update.microsoft.com/
Url to Unblock: https://*.update.microsoft.com
Url Type: Pattern
Description: Microsoft Update Service (MU). Signature and product updates.
```

```
kesolved: True
   Addresses: 40.70.224.146
DNS Aliases: update.microsoft.com.nsatc.net, www.update.microsoft.com.nsatc.net
Actual Status Code: 200
Expected Status Code: 200
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: True
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
Testing https://download.microsoft.com/
VERBOSE:
Test Url: https://download.microsoft.com/
Url to Unblock: https://*.download.microsoft.com
Url Type: Pattern
Description: Alternate location for Windows Defender Antivirus definition updates if the installed definitions fall out of date (7 or more days behind).
Resolved: True
IP Addresses: 23.32.68.203
DNS Aliases: dlc-shim.trafficmanager.net, main.dl.ms.akadns.net, download.microsoft.com.edgekey.net
, e3673.dscg.akamaiedge.net
Actual Status Code: 200
Expected Status Code: 200
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
Testing https://onboardingpackageseusprd.blob.core.windows.net/
Test Url: https://onboardingpackageseusprd.blob.core.windows.net/
Url to Unblock: https://*.blob.core.windows.net
Url Type: Pattern
Description: Malware submission storage. Upload location for files submitted to Microsoft via the S
ubmission form or automatic sample submission.
Resolved: True
IP Addresses: 52.225.136.36
DNS Aliases: blob.bn6prdstr15a.store.core.windows.net
Actual Status Code: 400
Expected Status Code: 400
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
Testing http://www.microsoft.com/pkiops/crl
VERBOSE:
Test Url: http://www.microsoft.com/pkiops/crl
Url to Unblock: http://www.microsoft.com/pkiops/crl
Url Type: Literal

Description: Microsoft Certificate Revocation List (CRL). Used by Windows when creating the SSL connection to MAPS for updating the CRL.
```

```
IP Addresses: 23.50.228.154
DNS Aliases: www.microsoft.com-c-3.edgekey.net, www.microsoft.com-c-3.edgekey.net.globalredir.akadn
s.net, e13678.dscb.akamaiedge.net
Actual Status Code: 404
Expected Status Code: 404
Is Unexpected Status Code: False
Status Message:
Blocked: Falše
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
Testing http://www.microsoft.com/pkiops/certs
Test Url: http://www.microsoft.com/pkiops/certs
Url to Unblock: http://www.microsoft.com/pkiops/certs
Url Type: Literal
Description:
VERBOSE:
Resolved: True
IP Addresses: 23.50.228.154
DNS Aliases: www.microsoft.com-c-3.edgekey.net, www.microsoft.com-c-3.edgekey.net.globalredir.akadn
s.net, e13678.dscb.akamaiedge.net
Actual Status Code: 404
Expected Status Code: 404
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
Testing http://crl.microsoft.com/pki/crl/products
VERBOSE:
Test Url: http://crl.microsoft.com/pki/crl/products
Url to Unblock: http://crl.microsoft.com/pki/crl/products
Url Type: Literal

Description: Microsoft Certificate Revocation List (CRL). Used by Windows when creating the SSL con
nection to MAPS for updating the CRL.
Resolved: True
IP Addresses: 23.46.238.203, 23.46.238.200
DNS Aliases: crl.www.ms.akadns.net, a1363.dscg.akamai.net
Actual Status Code: 404
Expected Status Code: 404
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Valiďation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
 ******
Testing http://www.microsoft.com/pki/certs
VERBOSE:
Test Url: http://www.microsoft.com/pki/certs
Url to Unblock: http://www.microsoft.com/pki/certs
Url Type: Literal
Description: Microsoft certificates.
Resolved: True
IP Addresses: 23.50.228.154
DNS Aliases: www.microsoft.com-c-3.edgekey.net, www.microsoft.com-c-3.edgekey.net.globalredir.akadn
```

```
e13678.dscb.akamaiedge.net
s.net, e13678.dscb.akama
Actual Status Code: 404
Expected Status Code: 404
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Valiďation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
         Testing https://msdl.microsoft.com/download/symbols
VERBOSE:
Test Url: https://msdl.microsoft.com/download/symbols
Url to Unblock: https://msdl.microsoft.com/download/symbols
Url Type: Literal
Description: Microsoft Symbol Store. Used by Windows Defender Antivirus to restore certain critical files during remediation flows.
Resolved: True
IP Addresses: 204.79.197.219
DNS Aliases: msdl.microsoft.akadns.net, msdl-microsoft-com.a-0016.a-msedge.net, a-0016.a-msedge.net
Actual Status Code: 200
Expected Status Code: 200
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
VERBOSE:
Test Url: https://vortex-win.data.microsoft.com/
Url to Unblock: https://vortex-win.data.microsoft.com
Url Type: Literal
Description: Used by Windows to send client diagnostic data, Windows Defender Antivirus uses this f
or product quality monitoring purposes.
Resolved: True
IP Addresses: 65.55.44.109
DNS Aliases: asimov-win.vortex.data.trafficmanager.net, global.vortex.data.trafficmanager.net
Actual Status Code: 404
Expected Status Code: 404
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
          ***********
Testing https://settings-win.data.microsoft.com/qos
VERBOSE:
Test Url: https://settings-win.data.microsoft.com/qos
Url to Unblock: https://settings-win.data.microsoft.com/qos
Url Type: Literal
Description: Used by Windows to send client diagnostic data, Windows Defender Antivirus uses this f
or product quality monitoring purposes.
Resolved: True
IP Addresses: 52.167.17.97
DNS Aliases: settingsfd-geo.trafficmanager.net, settingsfd-prod-eus22-endpoint.trafficmanager.net
```

```
Actual Status Code: 200
Expected Status Code: 400
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
Testing https://definitionupdates.microsoft.com/
VERBOSE:
Test Url: https://definitionupdates.microsoft.com/
Url to Unblock: https://definitionupdates.microsoft.com
Url Type: Literal
Description: Windows Defender Antivirus definition updates for Windows 10 1709+.
Resolved: True
IP Addresses: 23.32.68.203
DNS Aliases: definitionupdates.microsoft.com.edgekey.net, e3673.g.akamaiedge.net
Actual Status Code: 400
Expected Status Code: 200
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
Testing https://update.microsoft.com/
VERBOSE:
Test Url: https://update.microsoft.com/
Url to Unblock: https://*.update.microsoft.com
Url Type: Pattern
Description: MU / WU - Security intelligence and product updates.
Resolved: True
IP Addresses: 40.70.224.146
DNS Aliases: update.microsoft.com.nsatc.net, www.update.microsoft.com.nsatc.net
Actual Status Code: 200
Expected Status Code: 200
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
 **************
Testing https://unitedstates.cp.wd.microsoft.com/
VERBOSE:
Test Url: https://unitedstates.cp.wd.microsoft.com/
Url to Unblock: https://unitedstates.cp.wd.microsoft.com
Url Type: Literal
Description: Geo-affinity URL for wdcp.microsoft.com and wdcpalt.microsoft.com as of 06/26/2018 wit
h wDAV 4.18.1806.18062+
Resolved: True
IP Addresses: 13.82.144.201
DNS Aliases: wd-prod-cp-us.trafficmanager.net, wd-prod-cp-us-east-2-fe.eastus.cloudapp.azure.com
Actual Status Code: 503
Expected Status Code: 503
Is Unexpected Status Code: False
Status Message:
```

```
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
 Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
 **************
Testing https://adldefinitionupdates-wu.azurewebsites.net/
VERBOSE:
Test Url: https://adldefinitionupdates-wu.azurewebsites.net/
Url to Unblock: https://adldefinitionupdates-wu.azurewebsites.net/
Url Type: Literal
Description: Alternative to https://adl.windows.com which allows the compatibility update to receiv
e the latest compatibility data from Microsoft
Resolved: True
IP Addresses: 40.83.150.233
DNS Aliases: waws-prod-bay-089.vip.azurewebsites.windows.net, waws-prod-bay-089.cloudapp.net
Actual Status Code: 403
Expected Status Code: 200
Is Unexpected Status Code: False
Status Message:
Blocked: Falše
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
VERBOSE:
Testing http://ctldl.windowsupdate.com/
VERBOSE:
Test Url: http://ctldl.windowsupdate.com/
Url to Unblock: http://ctldl.windowsupdate.com
Url Type: Literal
Description: Microsoft Certificate Trust List download URL
Resolved: True
IP Addresses: 104.97.85.54, 104.97.85.29
DNS Aliases: au-bg-shim.trafficmanager.net, audownload.windowsupdate.nsatc.net, au.download.windowsupdate.com.edgesuite.net, a767.dscg3.akamai.net
Actual Status Code: 200
Expected Status Code: 200
Is Unexpected Status Code: False
Status Message:
Blocked: False
Certificate Error: False
Certificate Error Message:
Ignore Certificate Validation Errors: False
Certificate Validation Error: False
Certificate Validation Error Message:
Blocked
                             : False
                               https://wdcp.microsoft.com/
https://*.wdcp.microsoft.com
{wd-prod-cp.trafficmanager.net,
wd-prod-cp-us-east-2-fe.eastus.cloudapp.azure.com}
{13.82.144.201}
TestUrl
UnblockUrl
DnsAliases
IpAddresses
                               Windows Defender Antivirus cloud-delivered protection service, also referred to as Microsoft Active Protection Service (MAPS). Used by Windows Defender Antivirus to provide cloud-delivered protection.
Description
                                True
503
503
Resolved
ActualStatusCode
ExpectedStatusCode :
                                False
UnexpectedStatus
Blocked
                                False
                                https://wdcpalt.microsoft.com/
https://wdcpalt.microsoft.com
{wd-prod-cp.trafficmanager.net,
TestUrl
UnblockUrl
DnsAliases
```

```
wd-prod-cp-us-east-2-fe.eastus.cloudapp.azure.com}{13.82.144.201}
IpAddresses
                                   Windows Defender Antivirus cloud-delivered protection service, also referred to as Microsoft Active Protection Service (MAPS). Used by Windows Defender Antivirus to provide cloud-delivered protection.
Description
                                   True
503
503
Resolved
ActualStatusCode
ExpectedStatusCode:
                                   False
UnexpectedStatus
вlocked
                                : False
                                   https://update.microsoft.com/
https://*.update.microsoft.com
{update.microsoft.com.nsatc.net, www.update.microsoft.com.nsatc.net}
{40.70.224.146}
TestUrl
UnblockUrl
DnsAliases
IpAddresses
Description
Resolved
                                   Microsoft Update Service (MU). Signature and product updates.
                                   True
200
ActualStatusCode
                                   200
ExpectedStatusCode :
UnexpectedStatus
                                   False
Blocked
                                : False
                                   https://download.microsoft.com/
https://*.download.microsoft.com
{dlc-shim.trafficmanager.net, main.dl.ms.akadns.net,
TestUrl
UnblockUrl
DnsAliases
                                   download.microsoft.com.edgekey.net, e3673.dscg.akamaiedge.net}
                                   {23.32.68.203}
Alternate location for Windows Defender Antivirus definition updates if the installed definitions fall out of date (7 or more days behind).
IpAddresses
Description
                                   True
200
200
Resolved
ActualStatusCode
ExpectedStatusCode :
UnexpectedStatus
                                : False
Blocked
                                : False
                                   https://onboardingpackageseusprd.blob.core.windows.net/https://*.blob.core.windows.net {blob.bn6prdstr15a.store.core.windows.net} {52.225.136.36}
TestUrl
UnblockUrl
DnsAliases
IpAddresses
                                : Malware submission storage. Upload location for files submitted to Microsoft via the Submission form or automatic sample submission.
Description
Resolved
                                   True
                                   400
ActualStatusCode
ExpectedStatusCode: 400
                                : False
UnexpectedStatus
вlocked
                                   False
                                  http://www.microsoft.com/pkiops/crl
http://www.microsoft.com/pkiops/crl
{www.microsoft.com-c-3.edgekey.net,
www.microsoft.com-c-3.edgekey.net.globalredir.akadns.net,
e13678.dscb.akamaiedge.net}
{23.50.228.154}
Microsoft Certificate Revocation List (CRL). Used by Windows when creating
TestUrl
UnblockUrl
DnsAliases
IpAddresses
Description
                                   the SSL connection to MAPS for updating the CRL.
Resolved
                                   True
                                : 404
ActualStatusCode
ExpectedStatusCode : 404
UnexpectedStatus
                                : False
вlocked
                                   False
                                   http://www.microsoft.com/pkiops/certs
http://www.microsoft.com/pkiops/certs
{www.microsoft.com-c-3.edgekey.net,
www.microsoft.com-c-3.edgekey.net.globalredir.akadns.net,
e13678.dscb.akamaiedge.net}
{23.50.228.154}
TestUrl
UnblockUrl
DnsAliases
IpAddresses
Description
Resolved
                                   True
                                   404
ActualStatusCode
                                : 404
ExpectedStatusCode
UnexpectedStatus
                                : False
вlocked
                                   False
                                   http://crl.microsoft.com/pki/crl/products
http://crl.microsoft.com/pki/crl/products
fcrl.www.ms.akadns.net, a1363.dscg.akamai.net}
{23.46.238.203, 23.46.238.200}
Microsoft Certificate Revocation List (CRL). Used by Windows when creating the SSL connection to MAPS for updating the CRL.
TestUrl
UnblockUrl
DnsAliases
IpAddresses
Description
```

```
Resolved
                                   True
404
ActualStatusCode
ExpectedStatusCode
                                   404
                                   False
UnexpectedStatus
вlocked
                                   False
                                http://www.microsoft.com/pki/certs
http://www.microsoft.com/pki/certs
{www.microsoft.com-c-3.edgekey.net,
www.microsoft.com-c-3.edgekey.net.globalredir.akadns.net,
e13678.dscb.akamaiedge.net}
{23.50.228.154}
Microsoft certificates.
TestUrl
UnblockUrl
DnsAliases
IpAddresses
Description
Resolved
                                   True
404
ActualStatusCode
                                   404
ExpectedStatusCode :
UnexpectedStatus
                                : False
Blocked
                                   False
                                   https://msdl.microsoft.com/download/symbols
https://msdl.microsoft.com/download/symbols
{msdl.microsoft.akadns.net, msdl-microsoft-com.a-0016.a-msedge.net,
a-0016.a-msedge.net}
{204.79.197.219}
TestUrl
UnblockUrl
DnsAliases
IpAddresses
Description
                                   Microsoft Symbol
                                                                 Store. Used by Windows Defender Antivirus to restore
                                    certain critical files during remediation flows.
                                   True
200
Resolved
ActualStatusCode
                                    200
ExpectedStatusCode :
UnexpectedStatus
                                   False
вlocked
                                   False
                                   https://vortex-win.data.microsoft.com/
https://vortex-win.data.microsoft.com
{asimov-win.vortex.data.trafficmanager.net,
global.vortex.data.trafficmanager.net}
{65.55.44.109}
Used by Windows to send client diagnostic data, Windows Defender Antivirus
uses this for product quality monitoring purposes.
TestUrl
UnblockUrl
DnsAliases
IpAddresses
Description
                                  True
404
Resolved
<u>ActualStatusCode</u>
ExpectedStatusCode: 404
                                 : False
UnexpectedStatus
вlocked
                                : False
                                   https://settings-win.data.microsoft.com/qos
https://settings-win.data.microsoft.com/qos
{settingsfd-geo.trafficmanager.net,
settingsfd-prod-eus22-endpoint.trafficmanager.net}
{52.167.17.97}
TestUrl
UnblockUrl
DnsAliases
IpAddresses
                                   Used by Windows to send client diagnostic data, Windows Defender Antivirus uses this for product quality monitoring purposes.
Description
Resolved
                                   True
ActualStatusCode
                                    200
                                   400
ExpectedStatusCode
UnexpectedStatus
                                   False
вlocked
                                 : False
                                   https://definitionupdates.microsoft.com/
https://definitionupdates.microsoft.com
{definitionupdates.microsoft.com.edgekey.net, e3673.g.akamaiedge.net}
TestUrl
UnblockUrl
DnsAliases
IpAddresses
                                    {23.32.68.203}
Description
                                   Windows Defender Antivirus definition updates for Windows 10 1709+.
Resolved
                                   True
400
ActualStatusCode
ExpectedStatusCode :
                                   200
UnexpectedStatus
                                   False
вlocked
                                   False
                                   https://update.microsoft.com/
https://*.update.microsoft.com
{update.microsoft.com.nsatc.net, www.update.microsoft.com.nsatc.net}
{40.70.224.146}
MU / WU - Security intelligence and product updates.
TestUrl
UnblockUrl
DnsAliases
IpAddresses
Description
Resolved
                                   True
200
200
ActualStatusCode
ExpectedStatusCode :
UnexpectedStatus
                                   False
```

: False

вlocked

: https://unitedstates.cp.wd.microsoft.com/
: https://unitedstates.cp.wd.microsoft.com
: {wd-prod-cp-us.trafficmanager.net,
 wd-prod-cp-us-east-2-fe.eastus.cloudapp.azure.com}
: {13.82.144.201}
: Geo-affinity URL for wdcp.microsoft.com and wdcpalt.microsoft.com as of 06/26/2018 with WDAV 4.18.1806.18062+ TestUrl UnblockUrl DnsAliases IpAddresses Description Resolved : True ActualStatusCode : 503 ExpectedStatusCode : 503 : False UnexpectedStatus вlocked : False Harse
 https://adldefinitionupdates-wu.azurewebsites.net/
 https://adldefinitionupdates-wu.azurewebsites.net/
 {waws-prod-bay-089.vip.azurewebsites.windows.net, waws-prod-bay-089.cloudapp.net}
 {40.83.150.233} TestUrl UnblockUrl DnsAliases IpAddresses : Alternative to https://adl.windows.com which allows the compatibility update to receive the latest compatibility data from Microsoft Description Resolved : True : 403 ActualStatusCode 200 ExpectedStatusCode : : False UnexpectedStatus Blocked : False : http://ctldl.windowsupdate.com/
: http://ctldl.windowsupdate.com TestUrl UnblockUrl : {au-bg-shim.trafficmanager.net, audownload.windowsupdate.nsatc.net, au.download.windowsupdate.com.edgesuite.net, a767.dscg3.akamai.net} : {104.97.85.54, 104.97.85.29} : Microsoft Certificate Trust List download URL DnsAliases IpAddresses Description Resolved : True ActualStatusCode : 200 ExpectedStatusCode : 200 UnexpectedStatus : False

PS C:\Users\ncterry\Desktop\HTTP-Connectivity-Tester\Examples\Microsoft\WindowsDefenderAntivirus>