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# Set-MpPreference

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Module: Defender

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Configures preferences for Windows Defender scans and updates.

# **Syntax**

```
Set-MpPreference
   [-AllowDatagramProcessingOnWinServer <Boolean>]
   [-AllowNetworkProtectionDownLevel <Boolean>]
   [-AllowNetworkProtectionOnWinServer <Boolean>]
   [-AllowSwitchToAsyncInspection <Boolean>]
   [-AsJob]
   [-AttackSurfaceReductionOnlyExclusions <String[]>]
   [-AttackSurfaceReductionRules_Actions
<ASRRuleActionType[]>]
   [-AttackSurfaceReductionRules_Ids <String[]>]
   [-CheckForSignaturesBeforeRunningScan <Boolean>]
   [-CimSession <CimSession[]>]
   [-CloudBlockLevel <CloudBlockLevelType>]
   [-CloudExtendedTimeout <UInt32>]
   [-ControlledFolderAccessAllowedApplications
<String[]>]
   [-ControlledFolderAccessProtectedFolders <String[]>]
   [-DefinitionUpdatesChannel <UpdatesChannelType>]
   [-DisableArchiveScanning <Boolean>]
   [-DisableAutoExclusions <Boolean>]
   [-DisableBehaviorMonitoring <Boolean>]
   [-DisableBlockAtFirstSeen <Boolean>]
   [-DisableCacheMaintenance <UInt32>]
   [-DisableCatchupFullScan <Boolean>]
   [-DisableCatchupQuickScan <Boolean>]
   [-DisableCpuThrottleOnIdleScans <Boolean>]
   [-DisableDatagramProcessing <Boolean>]
   [-DisableDnsOverTcpParsing <Boolean>]
   [-DisableDnsParsing <Boolean>]
   [-DisableEmailScanning <Boolean>]
   [-DisableFtpParsing <Boolean>]
   [-DisableGradualRelease <Boolean>]
   [-DisableHttpParsing <Boolean>]
   [-DisableIOAVProtection <Boolean>]
   [-DisableInboundConnectionFiltering <Boolean>]
   [-DisableNetworkProtectionPerfTelemetry <Boolean>]
   [-DisablePrivacyMode <Boolean>]
   [-DisableRdpParsing <Boolean>]
   [-DisableRealtimeMonitoring <Boolean>]
```

```
[-DisableRemovableDriveScanning <Boolean>]
   [-DisableRestorePoint <Boolean>]
   [-DisableScanningMappedNetworkDrivesForFullScan
<Boolean>]
   [-DisableScanningNetworkFiles <Boolean>]
   [-DisableScriptScanning <Boolean>]
   [-DisableSmtpParsing <Boolean>]
   [-DisableSshParsing <Boolean>]
   [-DisableTlsParsing <Boolean>]
   [-EnableControlledFolderAccess
<ControlledFolderAccessType>]
   [-EnableDnsSinkhole <Boolean>]
   [-EnableFileHashComputation <Boolean>]
   [-EnableFullScanOnBatteryPower <Boolean>]
   [-EnableLowCpuPriority <Boolean>]
   [-EnableNetworkProtection <ASRRuleActionType>]
   [-EngineUpdatesChannel <UpdatesChannelType>]
   [-ExclusionExtension <String[]>]
   [-ExclusionIpAddress <String[]>]
   [-ExclusionPath <String[]>]
   [-ExclusionProcess <String[]>]
   [-ForceUseProxyOnly <Boolean>]
   [-Force]
   [-HighThreatDefaultAction <ThreatAction>]
   [-IntelTDTEnabled <UInt32>]
   [-LowThreatDefaultAction <ThreatAction>]
   [-MAPSReporting <MAPSReportingType>]
   [-MeteredConnectionUpdates <Boolean>]
   [-ModerateThreatDefaultAction <ThreatAction>]
   [-OobeEnableRtpAndSigUpdate <Boolean>]
   [-PUAProtection <PUAProtectionType>]
   [-PlatformUpdatesChannel <UpdatesChannelType>]
   [-ProxyBypass <String[]>]
   [-ProxyPacUrl <String>]
   [-ProxyServer <String>]
   [-QuarantinePurgeItemsAfterDelay <UInt32>]
   [-RandomizeScheduleTaskTimes <Boolean>]
   [-RealTimeScanDirection <ScanDirection>]
   [-RemediationScheduleDay <Day>]
   [-RemediationScheduleTime <DateTime>]
   [-ReportingAdditionalActionTimeOut <UInt32>]
   [-ReportingCriticalFailureTimeOut <UInt32>]
   [-ReportingNonCriticalTimeOut <UInt32>]
   [-ScanAvgCPULoadFactor <Byte>]
   [-ScanOnlyIfIdleEnabled <Boolean>]
   [-ScanParameters <ScanType>]
   [-ScanPurgeItemsAfterDelay <UInt32>]
   [-ScanScheduleDay <Day>]
```

```
[-ScanScheduleOffset <UInt32>]
   [-ScanScheduleQuickScanTime <DateTime>]
   [-ScanScheduleTime <HH:MM:SS>]
   [-SchedulerRandomizationTime <UInt32>]
   [-ServiceHealthReportInterval <UInt32>]
   [-SevereThreatDefaultAction <ThreatAction>]
   [-SharedSignaturesPath <String>]
   [-SignatureAuGracePeriod <UInt32>]
   [-SignatureBlobFileSharesSources <String>]
   [-SignatureBlobUpdateInterval <UInt32>]
   [-SignatureDefinitionUpdateFileSharesSources <String>]
   [-SignatureDisableUpdateOnStartupWithoutEngine
<Boolean>]
   [-SignatureFallbackOrder <String>]
   [-SignatureFirstAuGracePeriod <UInt32>]
   [-SignatureScheduleDay <Day>]
   [-SignatureScheduleTime <DateTime>]
   [-SignatureUpdateCatchupInterval <UInt32>]
   [-SignatureUpdateInterval <UInt32>]
   [-SignaturesUpdatesChannel <UpdatesChannelType>]
   [-SubmitSamplesConsent <SubmitSamplesConsentType>]
   [-ThreatIDDefaultAction_Actions <ThreatAction[]>]
   [-ThreatIDDefaultAction_Ids <Int64[]>]
   [-ThrottleLimit <Int32>]
   [-UILockdown <Boolean>]
   [-UnknownThreatDefaultAction <ThreatAction>]
   [<CommonParameters>]
```

# **Description**

The **Set-MpPreference** cmdlet configures preferences for Windows Defender scans and updates. You can modify exclusion file name extensions, paths, or processes, and specify the default action for high, moderate, and low threat levels.

#### REMEDIATION VALUES

The following table provides remediation action values for detected threats at low, medium, high, and severe alert levels.

Value	Action	
1	Clean the detected threat.	
2	Quarantine the detected threat.	
3	Remove the detected threat.	
6	Allow the detected threat.	
8	Allow the user to determine the action to take with the detected threat.	
9	Don't take any action.	
10	Block the detected threat.	
0	(NULL)	Apply action based on the Security Intelligence Update (SIU). This is the default value.

# **Examples**

# Example 1: Schedule to check for definition updates everyday

PS C:\> Set-MpPreference -SignatureScheduleDay Everyday

This command configures preferences to check for definition updates every day.

# Example 2: Schedule a time of day to check for definition updates

PS C:\> Set-MpPreference -SignatureScheduleTime 02:00:00

This command configures preferences to check for definition updates 120 minutes after midnight on days when it's scheduled to check.

# **Parameters**

#### -AllowDatagramProcessingOnWinServer

Specifies whether to disable inspection of UDP connections on Windows Server.

**Expand table** 

Туре:	Boolean
Aliases:	adpows
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -AllowNetworkProtectionDownLevel

Specifies whether to allow network protection to be set to Enabled or Audit Mode on Windows versions before 1709.

Туре:	Boolean
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Aliases:	anpdl
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -AllowNetworkProtectionOnWinServer

Specifies whether to allow network protection to be set to Enabled or Audit Mode for Windows Server.

# **Expand table**

Туре:	Boolean
Aliases:	anpws
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# -AllowSwitchToAsyncInspection

Specifies whether to enable a performance optimization that allows synchronously inspected network flows to switch to async inspection once they have been checked and validated.

Туре:	Boolean
Position:	Named
Default value:	Enabled
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -AsJob

Runs the cmdlet as a background job. Use this parameter to run commands that take a long time to complete.

The cmdlet immediately returns an object that represents the job and then displays the command prompt. You can continue to work in the session while the job completes. To manage the job, use the \*-Job cmdlets. To get the job results, use the Receive-Job cmdlet.

For more information about Windows PowerShell background jobs, see about\_Jobs ☑.

**Expand table** 

Туре:	SwitchParameter
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -AttackSurfaceReductionOnlyExclusions

Specifies the files and paths to exclude from Attack Surface Reduction (ASR) rules. Specify the folders or files and resources that should be excluded from ASR rules. Enter a folder path or a fully qualified resource name. For example, ""C:\Windows\" will exclude all files in that directory. ""C:\Windows\App.exe"" will exclude only that specific file in that specific folder.

For more information about excluding files and folders from ASR rules.

#### **Expand table**

Туре:	String[]
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# $- Attack Surface Reduction Rules\_Actions$

Specifies the states of attack surface reduction rules specified by using the AttackSurfaceReductionRules\_Ids parameter. If you add multiple rules as a comma-separated list, specify their states separately as a comma-separated list.

Туре:	ASRRuleActionType[]
Position:	Named
Default value:	None
Required:	False

Accept pipeline input:	False
Accept wildcard characters:	False

#### -AttackSurfaceReductionRules\_Ids

Specifies the states of attack surface reduction rules specified by using the AttackSurfaceReductionRules\_Ids parameter. If you add multiple rules as a comma-separated list, specify their states separately as a comma-separated list.

**Expand table** 

Туре:	String[]
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -CheckForSignaturesBeforeRunningScan

Indicates whether to check for new virus and spyware definitions before Windows Defender runs a scan. If you specify a value of \$True, Windows Defender checks for new definitions. If you specify \$False or don't specify a value, the scan begins with existing definitions. This setting applies to scheduled scans, but it has no effect on scans initiated manually from the user interface or on scans started from the command line using "mpcmdrun -Scan".

Туре:	Boolean

Aliases:	csbr
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -CimSession

Runs the cmdlet in a remote session or on a remote computer. Enter a computer name or a session object, such as the output of a New-CimSession or Get-CimSession or cmdlet. The default is the current session on the local computer.

# **Expand table**

Туре:	CimSession[]
Aliases:	Session
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -CloudBlockLevel

Specifies a cloud block level. This value determines how aggressive Microsoft Defender Antivirus is in blocking and scanning suspicious files.

Expand table

Туре:	CloudBlockLevelType
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -CloudExtendedTimeout

Specifies the amount of extended time to block a suspicious file and scan it in the cloud. Standard time is 10 seconds. Extend by up to 50 seconds.

Expand table

Туре:	UInt32
Aliases:	cloudextimeout
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# -ControlledFolderAccessAllowedApplications

Specifies applications that can make changes in controlled folders.

Туре:	String[]
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -ControlledFolderAccessProtectedFolders

Specifies more folders to protect.

String[]
Named

Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

### -DisableArchiveScanning

Type:

Position:

Indicates whether to scan archive files, such as .zip and .cab files, for malicious and unwanted software. If you specify a value of \$False or do not specify a value, Windows Defender scans archive files.

**Expand table** 

Туре:	Boolean
Aliases:	darchsc

Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableAutoExclusions

Indicates whether to disable the Automatic Exclusions feature for the server. If you specify a value of \$False or do not specify a value, Windows Defender enables the Automatic Exclusions feature for the server.

**Expand table** 

Туре:	Boolean
Aliases:	dae
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableBehaviorMonitoring

Indicates whether to enable behavior monitoring. If you specify a value of \$False or do not specify a value, Windows Defender enables behavior monitoring.

Туре:	Boolean
Aliases:	dbm
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableBlockAtFirstSeen

Indicates whether to enable block at first seen. If you specify a value of \$False or do not specify a value, Windows Defender enables block at first seen.

**Expand table** 

Туре:	Boolean
Aliases:	dbaf
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableCacheMaintenance

Defines whether the cache maintenance idle task will perform the cache maintenance or not. Allowed values are 1 - cache maintenance is disabled, and 0 - cache maintenance is enabled (default).

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Туре:	Boolean
Aliases:	dcm
Position:	Named
Default value:	0
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableCatchupFullScan

Indicates whether Windows Defender runs catch-up scans for scheduled full scans. A computer can miss a scheduled scan, usually because the computer is turned off at the scheduled time. If you specify a value of \$False, after the computer misses two scheduled full scans, Windows Defender runs a catch-up scan the next time someone logs on to the computer. If you specify a value of \$True, the computer does not run catch-up scans for scheduled full scans.

Туре:	Boolean
Aliases:	dcfsc
Position:	Named
Default value:	0
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableCatchupQuickScan

Indicates whether Windows Defender runs catch-up scans for scheduled quick scans. A computer can miss a scheduled scan, usually because the computer is off at the scheduled time. If you specify a value of \$False, after the computer misses two scheduled quick scans, Windows Defender runs a catch-up scan the next time someone logs onto the computer. If you specify a value of \$True, the computer does not run catch-up scans for scheduled quick scans.

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Туре:	Boolean
Aliases:	dcqsc
Position:	Named
Default value:	True
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableCpuThrottleOnIdleScans

Indicates whether the CPU will be throttled for scheduled scans while the device is idle. This parameter is enabled by default, thus ensuring that the CPU won't be throttled for scheduled scans performed when the device is idle, regardless of what ScanAvgCPULoadFactor is set to. For all other scheduled scans, this flag does not have any impact and normal throttling will occur.

Type:	Boolean
Aliases:	None

Position:	Named
Default value:	True
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# -DisableDatagramProcessing

Specifies whether to disable inspection of UDP connections.

**Expand table** 

Туре:	Boolean
Aliases:	ddtgp
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableDnsOverTcpParsing

Specifies whether to disable inspection of DNS traffic that occurs over a TCP channel.

Туре:	Boolean
Aliases:	ddnstcpp
Position:	Named

Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -DisableDnsParsing

Specifies whether to disable inspection of DNS traffic that occurs over a UDP channel. Network protection inspects DNS traffic that occurs over a TCP channel to provide metadata for anti-malware behavior monitoring or to allow for DNS sink holing if the "-EnableDnsSinkhole" configuration is set. This can be disabled by setting this value to "\$true".

## **Expand table**

Туре:	Boolean
Aliases:	ddnsp
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableEmailScanning

Indicates whether Windows Defender parses the mailbox and mail files, according to their specific format, in order to analyze mail bodies and attachments. Windows Defender supports several formats, including .pst, .dbx, .mbx, .mime, and .binhex. If you specify a value of \$False or do not specify a value, Windows Defender

performs email scanning. If you specify a value of \$True, Windows Defender does not perform email scanning.

# **Expand table**

Туре:	Boolean
Aliases:	demsc
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -DisableFtpParsing

Specifies whether to disable FTP parsing for network protection.

# **Expand table**

Туре:	Boolean
Aliases:	dfp
Position:	Named
Default value:	0
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableGradualRelease

Specifies whether to disable gradual rollout of monthly and daily Windows Defender updates. If you enable this option, devices are offered all updates after the gradual release cycle finishes. Consider this option for datacenter computers that only receive limited updates.

This setting applies to both monthly and daily updates. It overrides configured channel selections for platform and engine updates.

If you disable or do not configure this policy, the device remains in Current Channel (Default) unless specified otherwise in specific channels. The device stays up to date automatically during the gradual release cycle, which is suitable for most devices.

This policy is available starting with platform version 4.18.2106.5 and later.

# **Expand table**

Туре:	Boolean
Aliases:	dgr
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableHttpParsing

Specifies whether disable inspection of HTTP traffic. If **EnableNetworkProtection** has the value **Enabled**, HTTP connections to malicious websites can be blocked.

	C Expand table
Туре:	Boolean
Aliases:	dhttpp
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableInboundConnectionFiltering

Specifies whether to inspect only outbound connections. By default, Network Protection inspects both inbound and outbound connections.

**Expand table** 

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Туре:	Boolean
Aliases:	dicf
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableIOAVProtection

Indicates whether Windows Defender scans all downloaded files and attachments. If you specify a value of \$False or do not specify a

value, scanning downloaded files and attachments is enabled.

## **Expand table**

Туре:	Boolean
Aliases:	dioavp
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# -DisableNetworkProtectionPerfTelemetry

This setting disables the gathering and sending of performance telemetry from network protection. The accepted values are 0 and 1.

- 1- Network protection telemetry is disabled.
- 0 (Default) Network protection telemetry is enabled.

Туре:	Boolean
Aliases:	dnpp
Position:	Named
Default value:	0
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisablePrivacyMode

This is a legacy setting that does not have any affect on current platforms. The intent of this parameter was to disable privacy mode, which prevented users, other than administrators, from displaying threat history. When this parameter was in use, if you specified a value of \$False or did not specify a value, privacy mode was enabled.

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Туре:	Boolean
Aliases:	dpm
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableRdpParsing

This setting controls whether to parse RDP traffic to look for malicious attacks using the RDP protocol.

Туре:	Boolean
Aliases:	drdpp
Position:	Named
Default value:	None
Required:	False

Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableRealtimeMonitoring

Indicates whether to use real-time protection. If you specify a value of \$False or do not specify a value, Windows Defender uses real-time protection. We recommend that you enable Windows Defender to use real-time protection.

**Expand table** 

Туре:	Boolean
Aliases:	drtm
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableRemovableDriveScanning

Indicates whether to scan for malicious and unwanted software in removable drives, such as flash drives, during a full scan. If you specify a value of \$False or do not specify a value, Windows Defender scans removable drives during any type of scan. If you specify a value of \$True, Windows Defender does not scan removable drives during a full scan. Windows Defender can still scan removable drives during quick scans or custom scans.

Туре:	Boolean
Aliases:	drdsc
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableRestorePoint

Indicates whether to disable scanning of restore points. If you specify a value of \$False or do not specify a value, Windows Defender restore point is enabled.

# **Expand table**

Туре:	Boolean
Aliases:	drp, dsnf
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -DisableScanningMappedNetworkDrivesForFullScan

Indicates whether to scan mapped network drives. If you specify a value of \$False or do not specify a value, Windows Defender scans mapped network drives. If you specify a value of \$True, Windows Defender does not scan mapped network drives.

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Туре:	Boolean
Aliases:	dsmndfsc
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -DisableScanningNetworkFiles

Indicates whether to scan for network files. If you specify a value of \$False or do not specify a value, Windows Defender scans network files. If you specify a value of \$True, Windows Defender does not scan network files.

# **Expand table**

Туре:	Boolean
Aliases:	dsnf
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# -DisableScriptScanning

Specifies whether to disable the scanning of scripts during malware scans. If you specify a value of \$False or do not specify a value, Windows Defender does not scan scripts.

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Туре:	Boolean
Aliases:	dscrptsc
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

### -DisableSmtpParsing

This setting disables SMTP parsing for network protection. The accepted values are 0 and 1.

- 1 SMTP parsing is disabled.
- 0 (Default) SMTP parsing is enabled.

Type:	Boolean
Aliases:	dsp
Position:	Named
Default value:	0
Required:	False
Accept pipeline input:	False

Accept wildcard characters:	False	
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#### -DisableSshParsing

Specifies whether to disable inspection of SSH traffic. By default, Network Protection inspects SSH traffic.

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Туре:	Boolean
Aliases:	dsshp
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -DisableTlsParsing

Specifies whether to disable inspection of TLS traffic. Network protection inspects TLS traffic (also known as HTTPS traffic) to see if a connection is being made to a malicious website, and to provide metadata to behavior monitoring. TLS connections to malicious websites can also be blocked if "-EnableNetworkProtection" is set to enabled. HTTP inspection can be disabled by setting this value to "\$true". By default, network protection inspects TLS traffic.

Туре:	Boolean
Aliases:	dtlsp
Position:	Named

Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -Enable UdpReceiveOffload:

Specifies whether UDP receive offload support in Network
Protection is enabled, resulting in potentially higher UDP bandwidth
in the inbound direction. Starting with platform version
4.18.24030, Microsoft will gradually move this support default
from disabled to enabled. This setting can be manually controlled by
setting it to 1 to enable and 0 to disable.

**Expand table** 

Туре:	ASRRuleActionType
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -Enable UdpSegmentationOffload:

Specifies whether UDP segmentation offload support in Network Protection is enabled, resulting in potentially higher UDP bandwidth in the outbound direction. Starting with platform version 4.18.24030, Microsoft will gradually move this support default from disabled to enabled. This setting can be manually controlled by setting it to 1 to enable and 0 to disable.

**Expand table** 

Туре:	ASRRuleActionType
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -EnableControlledFolderAccess

Specifies the state for the controlled folder access feature. Valid values are Disabled, Enabled, and Audit Mode.

**Expand table** 

Туре:	ControlledFolderAccessType
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -EnableConvertWarnToBlock

This setting controls whether network protection blocks network traffic instead of displaying a warning. This setting can be manually controlled by setting it to 1 to enable and 0 to disable.

Туре:	ASRRuleActionType
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -EnableDnsSinkhole (Deprecated)

Specifies whether to examine DNS traffic to detect and sinkhole DNS exfiltration attempts and other DNS based malicious attacks. Network protection can inspect the DNS traffic of a machine and, in conjunction with behavior monitoring, detect and sink hole DNS exfiltration attempts, and other DNS based malicious attacks. Set this configuration to "\$true" to enable this feature.

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Туре:	Boolean
Aliases:	ednss
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -EnableFileHashComputation

Specifies whether to enable file hash computation. When this feature is enabled, Windows Defender computes hashes for files it

scans.

# **Expand table**

Туре:	Boolean
Aliases:	efhc
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# -EnableFullScanOnBatteryPower

Specifies whether Windows Defender does a full scan while on battery power.

# **Expand table**

Туре:	Boolean
Aliases:	efsobp
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -EnableLowCpuPriority

Specifies whether Windows Defender uses low CPU priority for scheduled scans.

Expand table

Туре:	Boolean
Aliases:	elcp
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -EnableNetworkProtection

Specifies how the network protection service handles web-based malicious threats, including phishing and malware. Possible values are Disabled, Enabled, and AuditMode.

**Expand table** 

Туре:	ASRRuleActionType
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -EngineUpdatesChannel

Specifies when devices receive Microsoft Defender engine updates during the monthly gradual rollout.

#### Valid values are:

- NotConfigured. Devices stay up to date automatically during the gradual release cycle. This value is suitable for most devices.
- Beta. Devices are the first to receive new updates. Select Beta
  Channel to participate in identifying and reporting issues to
  Microsoft. Devices in the Windows Insider Program are
  subscribed to this channel by default. This value is for use in
  manual test environments only and a limited number of
  devices.
- Broad. Devices are offered updates only after the gradual release cycle completes. This value is suggested for a broad set of devices in your production population, from 10 to 100 percent.
- Preview. Devices are offered updates earliest during the monthly gradual release cycle. This value is suggested for preproduction or validation environments.
- Staged. Devices are offered updates after the monthly gradual release cycle. This value is suggested for a small, representative part of your production population, around 10 percent.

Туре:	UpdatesChannelType
Aliases:	erelr
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False

Accept wildcard characters: False	
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#### -ExclusionExtension

Specifies an array of file name extensions, such as obj or lib, to exclude from scheduled, custom, and real-time scanning.

[]	Expand	table

Туре:	String[]
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# -ExclusionIpAddress

Specifies an array of IP addresses to exclude from scheduled and real-time scanning.

# **Expand table**

Type:	String[]
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -ExclusionPath

Specifies an array of file paths to exclude from scheduled and realtime scanning. You can specify a folder to exclude all the files under the folder.

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Туре:	String[]
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -ExclusionProcess

Specifies an array of processes, as paths to process images. This cmdlet excludes any files opened by the processes that you specify from scheduled and real-time scanning. Specifying this parameter excludes files opened by executable programs only. The cmdlet does not exclude the processes themselves. To exclude a process, specify it by using the **ExclusionPath** parameter.

Туре:	String[]
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -Force

Forces the command to run without asking for user confirmation.

**Expand table** 

Туре:	SwitchParameter
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -ForceUseProxyOnly

Specifies whether to force the device to use only the proxy.

**Expand table** 

Туре:	Boolean
Aliases:	fupo
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# -HighThreatDefaultAction

Specifies which automatic remediation action to take for a high level threat. The acceptable values for this parameter are:

- Quarantine
- Remove
- Ignore

Expand table

Туре:	ThreatAction
Aliases:	htdefac
Accepted values:	Clean, Quarantine, Remove, Allow, UserDefined, NoAction, Block
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -IntelTDTEnabled

This policy setting configures the Intel TDT integration level for Intel TDT-capable devices. The acceptable values for this parameter are:

- 0 (Default) If you don't configure this setting, the default value will be applied. The default value is controlled by Microsoft security intelligence updates. Microsoft will enable Intel TDT if there is a known threat.
- 1 If you configure this setting to enabled, Intel TDT integration will turn on.
- 2 If you configure this setting to disabled, Intel TDT integration will turn off.

Туре:	UInt32
Aliases:	itdte
Accepted values:	0, 1 and 2
Position:	Named
Default value:	0
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -LowThreatDefaultAction

Specifies which automatic remediation action to take for a low level threat. The acceptable values for this parameter are:

- Quarantine
- Remove
- Ignore

Туре:	ThreatAction
Aliases:	Itdefac
Accepted values:	Clean, Quarantine, Remove, Allow, UserDefined, NoAction, Block
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False

Accept wildcard	False	
characters:		

#### -MAPSReporting

Specifies the type of membership in Microsoft Active Protection Service. Microsoft Active Protection Service is an online community that helps you choose how to respond to potential threats. The community also helps prevent the spread of new malicious software. The acceptable values for this parameter are:

- 0: Disabled. Send no information to Microsoft. This is the default value.
- 1: Basic membership. Send basic information to Microsoft about detected software, including where the software came from, the actions that you apply or that apply automatically, and whether the actions succeeded.
- 2: Advanced membership. In addition to basic information, send more information to Microsoft about malicious software, spyware, and potentially unwanted software, including the location of the software, file names, how the software operates, and how it affects your computer.

If you join this community, you can choose to automatically send basic or additional information about detected software. Additional information helps Microsoft create new definitions. In some instances, personal information might unintentionally be sent to Microsoft. However, Microsoft will not use this information to identify you or contact you.

Туре:	MAPSReportingType
Accepted values:	Disabled, Basic, Advanced
Position:	Named

Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# -MeteredConnectionUpdates

Specifies whether to update managed devices to update through metered connections. Data charges may apply.

**Expand table** 

Туре:	Boolean
Aliases:	mcupd
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -ModerateThreatDefaultAction

Specifies which automatic remediation action to take for a moderate level threat. The acceptable values for this parameter are:

- Quarantine
- Remove
- Ignore

Туре:	ThreatAction
Aliases:	mtdefac
Accepted values:	Clean, Quarantine, Remove, Allow, UserDefined, NoAction, Block
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -OobeEnableRtpAndSigUpdate

This setting allows you to configure whether real-time protection and Security Intelligence Updates are enabled during Out of Box experience (OOBE).

#### Valid values are:

- True If you enable this setting, real-time protection and Security Intelligence Updates are enabled during OOBE.
- False (Default) If you either disable or don't configure this setting, real-time protection and Security Intelligence Updates during OOBE aren't enabled.

Туре:	Boolean
Position:	Named
Default value:	False
Required:	False

Accept pipeline input:	False
Accept wildcard characters:	False

### -PlatformUpdatesChannel

Specifies when devices receive Microsoft Defender platform updates during the monthly gradual rollout.

#### Valid values are:

- NotConfigured. Devices stay up to date automatically during the gradual release cycle. This value is suitable for most devices.
- Beta. Devices are the first to receive new updates. Select Beta
  Channel to participate in identifying and reporting issues to
  Microsoft. Devices in the Windows Insider Program are
  subscribed to this channel by default. This value is for use in
  manual test environments only and a limited number of
  devices.
- Broad. Devices are offered updates only after the gradual release cycle completes. This value is suggested for a broad set of devices in your production population, from 10 to 100 percent.
- Preview. Devices are offered updates earliest during the monthly gradual release cycle. This value is suggested for preproduction or validation environments.
- Staged. Devices are offered updates after the monthly gradual release cycle. This value is suggested for a small, representative part of your production population, around 10 percent.

Туре:	UpdatesChannelType	
Aliases:	prelr	

Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# -ProxyBypass

Specifies proxy bypasses.

# **Expand table**

Туре:	String[]
Aliases:	proxbps
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -ProxyPacUrl

Specifies the Privilege Attribute Certificate (PAC) proxy.

Туре:	String
Aliases:	ppurl
Position:	Named

Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -ProxyServer

Specifies the proxy server.

# **Expand table**

Туре:	String
Aliases:	proxsrv
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -PUAProtection

Specifies the level of detection for potentially unwanted applications. When potentially unwanted software is downloaded or attempts to install itself on your computer, you are warned.

Туре:	PUAProtectionType
Accepted values:	Disabled, Enabled, AuditMode
Position:	Named

Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -QuarantinePurgeItemsAfterDelay

Specifies the number of days to keep items in the Quarantine folder. If you specify a value of zero or do not specify a value for this parameter, items stay in the Quarantine folder indefinitely.

**Expand table** 

Туре:	UInt32
Aliases:	qpiad
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -RandomizeScheduleTaskTimes

Indicates whether to select a random time for the scheduled start and scheduled update for definitions. If you specify a value of \$True or do not specify a value, scheduled tasks begin within 30 minutes, before or after, the scheduled time. If you randomize the start times, it can distribute the impact of scanning. For example, if several virtual machines share the same host, randomized start times prevents all the hosts from starting the scheduled tasks at the same time.

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Type:	Boolean
Aliases:	rstt
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -RealTimeScanDirection

Specifies scanning configuration for incoming and outgoing files on NTFS volumes. The acceptable values for this parameter are:

- 0: Scan both incoming and outgoing files. This is the default.
- 1: Scan incoming files only.
- 2: Scan outgoing files only.

Specify a value for this parameter to enhance performance on servers which have a large number of file transfers, but need scanning for either incoming or outgoing files. Evaluate this configuration based on the server role. For non-NTFS volumes, Windows Defender performs full monitoring of file and program activity.

Туре:	ScanDirection
Aliases:	rtsd
Accepted values:	Both, Incoming, Outcoming
Position:	Named

Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -RemediationScheduleDay

Specifies the day of the week on which to perform a scheduled full scan in order to complete remediation. Alternatively, specify everyday for this full scan or never. The acceptable values for this parameter are:

- 0: Everyday
- 1: Sunday
- 2: Monday
- 3: Tuesday
- 4: Wednesday
- 5: Thursday
- 6: Friday
- 7: Saturday
- 8: Never

The default value is 8, never. If you specify a value of 8 or do not specify a value, Windows Defender performs a scheduled full scan to complete remediation by using a default frequency.

Туре:	Day
Aliases:	rsd
Accepted values:	Everyday, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Never
Position:	Named

Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -RemediationScheduleTime

Specifies the time of day, as the number of minutes after midnight, to perform a scheduled scan. The time refers to the local time on the computer. If you do not specify a value for this parameter, a scheduled scan runs at the default time of two hours after midnight.

**Expand table** 

Туре:	DateTime
Aliases:	rst
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# -ReportingAdditionalActionTimeOut

Specifies the number of minutes before a detection in the additional action state changes to the cleared state.

Туре:	UInt32
Aliases:	raat
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# -ReportingCriticalFailureTimeOut

Specifies the number of minutes before a detection in the critically failed state changes to either the additional action state or the cleared state.

# **Expand table**

Туре:	UInt32
Aliases:	rcto
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -ReportingNonCriticalTimeOut

Specifies the number of minutes before a detection in the non-critically failed state changes to the cleared state.

Туре:	UInt32
Aliases:	rncto
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

Expand table

#### -ScanAvgCPULoadFactor

Specifies the maximum percentage CPU usage for a scan. The acceptable values for this parameter are: integers from 5 through 100, and the value 0, which disables CPU throttling. Windows Defender does not exceed the percentage of CPU usage that you specify. The default value is 50.

Note: This is not a hard limit but rather a guidance for the scanning engine to not exceed this maximum on average. If ScanOnlylfldleEnabled (instructing the product to scan only when the computer is not in use) and DisableCpuThrottleOnldleScans (instructing the product to disable CPU throttling on idle scans) are both enabled, then the value of ScanAvgCPULoadFactor is ignored.

	C Expand table
Туре:	Byte
Aliases:	saclf
Position:	Named
Default value:	None

Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -ScanOnlyIfIdleEnabled

Indicates whether to start scheduled scans only when the computer is not in use. If you specify a value of \$True or do not specify a value, Windows Defender runs schedules scans when the computer is on, but not in use.

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Туре:	Boolean
Aliases:	soiie
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -ScanParameters

Specifies the scan type to use during a scheduled scan. The acceptable values for this parameter are:

- 1: Quick scan
- 2: Full scan

If you do not specify this parameter, Windows Defender uses the default value of quick scan.

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Туре:	ScanType
Accepted values:	QuickScan, FullScan
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -ScanPurgeItemsAfterDelay

Specifies the number of days to keep items in the scan history folder. After this time, Windows Defender removes the items. If you specify a value of zero, Windows Defender does not remove items. If you do not specify a value, Windows Defender removes items from the scan history folder after the default length of time, which is 15 days.

## Expand table

Туре:	UInt32
Aliases:	spiad
Position:	Named
Default value:	15
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -ScanScheduleDay

Specifies the day of the week on which to perform a scheduled scan. Alternatively, specify everyday for a scheduled scan or never. The acceptable values for this parameter are:

- 0: Everyday
- 1: Sunday
- 2: Monday
- 3: Tuesday
- 4: Wednesday
- 5: Thursday
- 6: Friday
- 7: Saturday
- 8: Never

The default value is 8, never. If you specify a value of 8 or do not specify a value, Windows Defender does not perform scheduled scans.

Expand table

Туре:	Day
Aliases:	scsd
Accepted values:	Everyday, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Never
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -ScanScheduleOffset

Configures the number of minutes after midnight to perform a scheduled scan. The time on the endpoint is used to determine the local time. If you enable this setting, a scheduled scan will run at the time specified. If you disable or don't enable this setting, a scheduled scan runs at the default time of two hours (120 minutes) after midnight.

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Туре:	UInt32
Aliases:	scso
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -ScanScheduleQuickScanTime

Specifies the time of day, as the number of minutes after midnight, to perform a scheduled quick scan. The time refers to the local time on the computer. If you do not specify a value for this parameter, a scheduled quick scan runs at the time specified by the **ScanScheduleOffset** parameter. That parameter has a default time of two hours after midnight.

Туре:	DateTime
Aliases:	scsqst
Position:	Named

Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -ScanScheduleTime

Specifies the time of day to run a scheduled scan. The time refers to the local time on the computer. Specify the number of minutes after midnight (for example, enter 60 for 1 a.m.). This parameter has a default time of two hours after midnight (2 a.m.).

**Expand table** 

Туре:	DateTime
Aliases:	scsqst
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -SchedulerRandomizationTime

Specifies the randomization time for the scheduler.

Туре:	UInt32
Aliases:	srt

Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -ServiceHealthReportInterval

This policy setting configures the time interval (in minutes) for the service health reports to be sent from endpoints. These are for Microsoft Defender Antivirus events 1150 and 1151. For more information, see Microsoft Defender Antivirus event IDs.

If you do not configure this setting, the default value will be applied. The default value is set at 60 minutes (one hour). If you configure this setting to 0, no service health reports will be sent. The maximum value allowed to be set is 14400 minutes (ten days).

## **Expand table**

Туре:	UInt32
Aliases:	shri
Accepted values:	0-14400
Position:	Named
Default value:	60
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -SevereThreatDefaultAction

Specifies which automatic remediation action to take for a severe level threat. The acceptable values for this parameter are:

- Quarantine
- Remove
- Ignore

## **Expand table**

Туре:	ThreatAction
Aliases:	stdefac
Accepted values:	Clean, Quarantine, Remove, Allow, UserDefined, NoAction, Block
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# $\hbox{-} \textbf{SharedSignaturesPath}$

Specifies the shared signatures path.

Туре:	String
Aliases:	ssp, SecurityIntelligenceLocation, ssl
Position:	Named
Default value:	None
Required:	False

Accept pipeline input:	False
Accept wildcard characters:	False

# -SignatureAuGracePeriod

Specifies a grace period, in minutes, for the definition. If a definition successfully updates within this period, Windows Defender abandons any service initiated updates.

## **Expand table**

Туре:	UInt32
Aliases:	sigagp
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# -SignatureBlobFileSharesSources

Specifies the file shares sources for signatures.

Туре:	String
Aliases:	sigbfs
Position:	Named
Default value:	None
Required:	False

Accept pipeline input:	False
Accept wildcard characters:	False

### -SignatureBlobUpdateInterval

Specifies the signature update interval.

	Expand table
Туре:	UInt32
Aliases:	sigbui
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -SignatureDefinitionUpdateFileSharesSources

Specifies file-share sources for definition updates. Specify sources as a bracketed sequence of Universal Naming Convention (UNC) locations, separated by the pipeline symbol; for example, { \\Server01\Share01 | \\Server02\Share02 | \\Server03\Share03}. If you specify a value for this parameter, Windows Defender attempts to connect to the shares in the order that you specify. After Windows Defender updates a definition, it stops attempting to connect to shares on the list. If you do not specify a value for this parameter, the list is empty.

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Aliases:	sigdufss
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -SignatureDisableUpdateOnStartupWithoutEngine

Indicates whether to initiate definition updates even if no antimalware engine is present. If you specify a value of \$True or do not specify a value, Windows Defender does not initiate definition updates on startup. If you specify a value of \$False, and if no antimalware engine is present, Windows Defender initiates definition updates on startup.

## **Expand table**

Туре:	Boolean
Aliases:	sigduoswo
Position:	Named
Default value:	False
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -SignatureFallbackOrder

Specifies the order in which to contact different definition update sources. Specify the types of update sources in the order in which

you want Windows Defender to contact them, enclosed in braces and separated by the pipeline symbol; for example, { InternalDefinitionUpdateServer | MicrosoftUpdateServer | MMPC }. The values that you can specify in the string are:

- InternalDefinitionUpdateServer
- MicrosoftUpdateServer
- MMPC
- FileShares

MMPC refers to Microsoft Malware Protection Center.

If you specify a value for this parameter, Windows Defender contacts the definition update sources in the specified order. After Windows Defender downloads definition updates from a source, it stops attempting to connect to other sources. If you do not specify a value for this parameter, Windows Defender contacts sources in the default order of { MicrosoftUpdateServer | MMPC }.

# **Expand table**

Туре:	String
Aliases:	sfo
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -SignatureFirstAuGracePeriod

Specifies a grace period, in minutes, for the definition. If a definition successfully updates within this period, Windows Defender abandons any service initiated updates. This parameter overrides

the value of the **CheckForSignaturesBeforeRunningScan** parameter.

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Туре:	UInt32
Aliases:	sigfagp
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -SignatureScheduleDay

Specifies the day of the week on which to check for definition updates. Alternatively, specify everyday for a scheduled scan or never. The acceptable values for this parameter are:

- 0: Everyday
- 1: Sunday
- 2: Monday
- 3: Tuesday
- 4: Wednesday
- 5: Thursday
- 6: Friday
- 7: Saturday
- 8: Never

The default value is 8, never. If you specify a value of 8 or do not specify a value, Windows Defender checks for definition updates by using a default frequency.

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Туре:	Day
Aliases:	sigsd
Accepted values:	Everyday, Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Never
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -SignatureScheduleTime

Specifies the time of day, as the number of minutes after midnight, to check for definition updates. The time refers to the local time on the computer. If you do not specify a value for this parameter, Windows Defender checks for definition updates at the default time of 15 minutes before the scheduled scan time.

Туре:	DateTime
Aliases:	sigst
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False

Accept wildcard characters: False
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#### -SignaturesUpdatesChannel

Specifies when devices receive daily Microsoft Defender definition updates during the monthly gradual rollout.

Valid values are:

- NotConfigured. Devices stay up to date automatically during the gradual release cycle. This value is suitable for most devices.
- Broad. Devices are offered updates only after the gradual release cycle completes. This value is suggested for a broad set of devices in your production population, from 10 to 100 percent.
- Staged. Devices are offered updates after the monthly gradual release cycle. This value is suggested for a small, representative part of your production population, around 10 percent.

This parameter name will be updated to **DefinitionUpdatesChannel** in a future release.

Туре:	UpdatesChannelType
Aliases:	srelr
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -SignatureUpdateCatchupInterval

Specifies the number of days after which Windows Defender requires a catch-up definition update. If you do not specify a value for this parameter, Windows Defender requires a catch-up definition update after the default value of one day.

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Туре:	UInt32
Aliases:	siguci
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -SignatureUpdateInterval

Specifies the interval, in hours, at which to check for definition updates. The acceptable values for this parameter are: integers from 1 through 24. If you do not specify a value for this parameter, Windows Defender checks at the default interval. You can use this parameter instead of the SignatureScheduleDay parameter and SignatureScheduleTime parameter.

Туре:	UInt32
Aliases:	sigui
Position:	Named
Default value:	None

Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -SubmitSamplesConsent

Specifies how Windows Defender checks for user consent for certain samples. If consent has previously been granted, Windows Defender submits the samples. Otherwise, if the MAPSReporting parameter does not have a value of Disabled, Windows Defender prompts the user for consent. The acceptable values for this parameter are:

- 0: Always prompt
- 1: Send safe samples automatically
- 2: Never send
- 3: Send all samples automatically

#### Expand table

Туре:	SubmitSamplesConsentType
Accepted values:	AlwaysPrompt, SendSafeSamples, NeverSend, SendAllSamples
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -ThreatIDDefaultAction\_Actions

Specifies an array of the actions to take for the IDs specified by using the **ThreatIDDefaultAction\_Ids** parameter. The acceptable values for this parameter are:

- 1: Clean
- 2: Quarantine
- 3: Remove
- 6: Allow
- 8: UserDefined
- 9: NoAction
- 10: Block

## ① Note

A value of 0 (NULL) applies an action based on the Security Intelligence Update (SIU). This is the default value.

## **Expand table**

Туре:	ThreatAction[]
Aliases:	tiddefaca
Accepted values:	Clean, Quarantine, Remove, Allow, UserDefined, NoAction, Block
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -ThreatIDDefaultAction\_Ids

Specifies an array of threat IDs. This cmdlet modifies the default action for the threat IDs that you specify.

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Туре:	Int64[]
Aliases:	tiddefaci
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

## -ThrottleForScheduledScanOnly

A CPU usage limit can be applied to scheduled scans only, or to scheduled and custom scans. The default value applies a CPU usage limit to scheduled scans only. The acceptable values for this parameter are:

- 1 (Default) If you enable this setting, CPU throttling will apply only to scheduled scans.
- 0 If you disable this setting, CPU throttling will apply to scheduled and custom scans.

Туре:	Boolean
Position:	Named
Default value:	1
Required:	False

Accept pipeline input:	False
Accept wildcard characters:	False

#### -ThrottleLimit

Specifies the maximum number of concurrent operations that can be established to run the cmdlet. If this parameter is omitted or a value of ø is entered, then Windows PowerShell® calculates an optimum throttle limit for the cmdlet based on the number of CIM cmdlets that are running on the computer. The throttle limit applies only to the current cmdlet, not to the session or to the computer.

**Expand table** 

Туре:	Int32
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -UILockdown

Indicates whether to disable UI lockdown mode. If you specify a value of \$True, Windows Defender disables UI lockdown mode. If you specify \$False or do not specify a value, UI lockdown mode is enabled.

Туре:	Boolean
Position:	Named

Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

#### -UnknownThreatDefaultAction

Specifies which automatic remediation action to take for an unknown level threat. The acceptable values for this parameter are:

- Quarantine
- Remove
- Ignore

**Expand table** 

Туре:	ThreatAction
Aliases:	unktdefac
Accepted values:	Clean, Quarantine, Remove, Allow, UserDefined, NoAction, Block
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

# **Related Links**

- Add-MpPreference
- Get-MpPreference

• Remove-MpPreference

# **Feedback**

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