

Intune Security Baselines – As-built asconfigured

March 2020



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Overview

Purpose

The purpose of this as-built as-configured (ABAC) document is to detail the Intune Security Baselines deployed within the solution. These baselines align to the design decisions captured within the associated blueprint document. All settings captured within this ABAC were captured as of the time of writing.

Associated Documentation

The following table lists the documents that were referenced during the creation of this ABAC.

Table 1 Associated Documentation

Name	Version	Date
DTA – Blueprint Solution Overview	March	03/2020
DTA – Platform Design	March	03/2020
DTA – Workstation Design	March	03/2020
DTA – Office 365 Design	March	03/2020
DTA - Office 365 - ABAC	March	03/2020
DTA – Platform – ABAC	March	03/2020
DTA – Software Updates – ABAC	March	03/2020
DTA – Intune Applications – ABAC	March	03/2020
DTA – Intune Enrolment – ABAC	March	03/2020
DTA - Conditional Access Policies - ABAC	March	03/2020
DTA – Intune Compliance – ABAC	March	03/2020
DTA – Intune Configuration – ABAC	March	03/2020

Device Security Baselines

The following tables lists the device security baseline profiles deployed within the tenant. Security baselines are utilised to maintain a device security level congruent to the standards determined in the design documents.

ACSC1709Guidance-DefenderATPSecurityBaseline_Settings

Table 2 ACSC1709Guidance-DefenderATPSecurityBaseline details

Profile name

ACSC1709Guidance-DefenderATPSecurityBaseline

Current Baseline

June 2019 v1

Yes

Table 3 ACSC1709Guidance-DefenderATPSecurityBaseline_Settings settings

Name	Value
Scan scripts loaded in Microsoft web browsers	True
Scan incoming mail messages	True
Office apps launch child process	block
Encrypt devices	True
Security association idle time before deletion	300
File Transfer Protocol	True
Defender sample submission consent	sendSafeSamplesAutomatically
Defender sample submission consent Network Inspection System (NIS)	sendSafeSamplesAutomatically True
·	·
Network Inspection System (NIS)	True
Network Inspection System (NIS) Signature update interval (in hours)	True 4 block
Network Inspection System (NIS) Signature update interval (in hours) Script downloaded payload execution	True 4 block

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Prevent credential stealing enable

Email content execution block

Packet queuing deviceDefault

Type of system scan to perform quick

Scan all downloads True

Adobe Reader launch in a child process enable

Block execution of unverified files True

Days before deleting quarantined malware 0

Network protection enable

Scheduled scan start time t2AM

Cloud-delivered protection True

Defender potentially unwanted app action block

Script obfuscated macro code block

Require SmartScreen for Microsoft Edge True

Enumeration of external devices incompatible

with Kernel DMA Protection

deviceDefault

Defender cloud extended timeout 50

Firewall profile domain

Firewall profile public

Scan archive files True

Firewall profile private

Application Guard False

Defender system scan schedule userDefined

Hardware device installation by device

identifiers

Block malicious site access True

Block user editing of exploit protection interface True

Behavior monitoring True

BitLocker removable drive policy

Block unverified file download True

Scan files opened from network folders True

Untrusted USB process block

Office apps other process injection block

Firewall pre shared key encoding method uTF8

Office macro code allow Win32 imports block

Configure Windows Hello for Business: False

Encrypt storage card (mobile only)

True

Expedite telemetry reporting frequency True

Block direct memory access True

Defender cloud block level high

BitLocker fixed drive policy

Certificate revocation list verification deviceDefault

Clipboard behavior notConfigured

BitLocker system drive policy

Sample sharing for all files True

Folder protection auditMode

Real-time monitoring True

CPU usage limit during a scan 50

Office communication apps launch in a child enable process Scan mapped network drives during a full scan True Lowercase letters in PIN: allowed Block end-user access to Defender True Special characters in PIN: allowed Hardware device installation by setup classes Quick scan start time t2AM Require SmartScreen for apps and files True Windows network isolation policy Uppercase letters in PIN: allowed Office apps executable content creation or block launch

ACSC1709Guidance-EdgeSecurityBaseline_Settings

Table 4 ACSC1709Guidance-EdgeSecurityBaseline_Settings details

Profile name	ACSC1709Guidance-EdgeSecurityBaseline
Current Baseline	October 2019 (Edge version 77 and later)
Assigned	Yes

Table 5 ACSC1709Guidance-EdgeSecurityBaseline_Settings settings

Name	Value
Prevent bypassing Microsoft Defender SmartScreen prompts for sites	enabled
Default Adobe Flash setting	2
Minimum SSL version enabled	tls1.2
Minimum SSL version enabled	enabled
Prevent bypassing of Microsoft Defender SmartScreen warnings about downloads	enabled
Allow users to proceed from the SSL warning page	disabled
Default Adobe Flash setting	enabled
Enable site isolation for every site	enabled

Supported authentication schemes	enabled
Enable saving passwords to the password manager	disabled
Control which extensions cannot be installed	enabled
Configure Microsoft Defender SmartScreen	enabled
Allow user-level native messaging hosts (installed without admin permissions)	disabled
Supported authentication schemes	
Extension IDs the user should be prevented from installing (or * for all)	

ACSC1709Guidance-MDMSecurity_Settings

Table 6 ACSC1709Guidance-MDMSecurity_Settings details

Profile name	ACSC1709Guidance-MDMSecurity
Current Baseline	May 2019
Assigned	Yes

Table 7 ACSC1709Guidance-MDMSecurity_Settings settings

Name	Value
RPC unauthenticated client options	authenticated
Password minimum character set count	3
Internet Explorer restricted zone updates to status bar via script	disabled
Internet Explorer internet zone drag and drop or copy and paste files	disable
Block user control over installations	True
Number of sign-in failures before wiping device	10
Internet Explorer restricted zone .NET Framework reliant components	disable
Scan incoming mail messages	True
Office apps launch child process	block
Internet Explorer local machine zone do not run antimalware against Active X controls	disabled

Internet Explorer internet zone access to data sources	disable
Internet Explorer restricted zone drag content from different domains within windows	disabled
Defender sample submission consent	sendSafeSamplesAutomatically
Restrict anonymous access to named pipes and shares	True
Minimum session security for NTLM SSP based servers	ntlmV2And128BitEncryption
Internet Explorer certificate address mismatch warning	enabled
Internet Explorer restricted zone less privileged sites	disable
Block display of toast notifications	True
Internet Explorer restricted zone automatic prompt for file downloads	disabled
Signature update interval (in hours)	4
Internet Explorer internet zone .NET Framework reliant components	disable
Block storing run as credentials	enabled
Internet Explorer internet zone allow only approved domains to use tdc ActiveX controls	enabled
Internet Explorer restricted zone script initiated windows	disabled
Apply UAC restrictions to local accounts on network logon	enabled
Internet Explorer internet zone include local path when uploading files to server	disabled
Internet Explorer disable processes in enhanced protected mode	enabled
Minutes of lock screen inactivity until screen saver activates	15
Internet Explorer ignore certificate errors	disabled
Prevent use of camera	enabled
Internet Explorer internet zone loading of XAML files	disable
Script downloaded payload execution	block

Internet Explorer internet zone automatic prompt for file downloads	disabled
Auto play default auto run behavior	doNotExecute
Internet Explorer restricted zone security warning for potentially unsafe files	disable
Require password on wake while plugged in	enabled
Internet Explorer internet zone cross site scripting filter	enabled
Network IP source routing protection level	highestProtection
Internet Explorer fallback to SSL3	noSites
Internet Explorer encryption support	
Require client to always digitally sign communications	True
Password expiration (days)	60

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Internet Explorer locked down internet zone

smart screen

enabled

Block password saving enabled

ImNtImV2AndNotLmOrNtm Authentication level

Ink Workspace enabled

Internet Explorer restricted zone launch applications and files in an iFrame

disable

Disable indexing encrypted items True

System boot start driver initialization goodAndUnknown

Block Internet sharing True

Prevent clients from sending unencrypted passwords to third party SMB servers

True

Prevent credential stealing enable

Email content execution block

Internet Explorer bypass smart screen

warnings about uncommon files

disabled

Internet Explorer internet zone popup blocker

enable

Internet Explorer processes consistent MIME

handling

enabled

Microsoft accounts optional for Windows Store apps	enabled
Standby states when sleeping while on battery	disabled
Adobe Reader launch in a child process	enable
Secure RPC communication	enabled
Block execution of unverified files	True
Internet Explorer restricted zone java permissions	disableJava
Block connection to non-domain networks	enabled
Internet Explorer Active X controls in protected mode	disabled
Internet Explorer restricted zone loading of XAML files	disable
Internet Explorer processes scripted window security restrictions	enabled
Network protection	enable
Internet Explorer restricted zone run Active X controls and plugins	disable
Internet Explorer restricted zone script Active X controls marked safe for scripting	disable
Require server digitally signing communications always	True
Administrator elevation prompt behavior	promptForCredentialsOnTheSecureDesktop
SMB v1 client driver start configuration	disableDriver
Internet Explorer restricted zone logon options	anonymous
Block drive redirection	enabled
Defender schedule scan day	noScheduledScan
Block Internet download for web publishing and online ordering wizards	enabled
Block MSI app installations with elevated privileges	True
Internet Explorer trusted zone initialize and script Active X controls not marked as safe	disable
SMB v1 server	disabled
Cloud-delivered protection	True

Block Automatically connecting to Wi-Fi

hotspots

True

Auto play mode disabled

Defender potentially unwanted app action block

Credential Guard enableWithUEFILock

Internet Explorer check server certificate

revocation

enabled

Internet Explorer internet zone less privileged

sites

disable

Required password alphanumeric

Security log maximum file size in KB 196608

Internet Explorer restricted zone file downloads disable

Configure secure access to UNC paths

disabled Block data execution prevention

Internet Explorer internet zone run .NET Framework reliant components signed with

Authenticode

disable

Script obfuscated macro code block

Internet Explorer prevent per user installation of enabled

Active X controls

Scan removable drives during a full scan True

Require SmartScreen for Microsoft Edge True

Minimum session security for NTLM SSP

based clients

ntlmV2And128BitEncryption

Enumeration of external devices incompatible

with Kernel DMA Protection

blockAll

Internet Explorer prevent managing smart

screen filter

enable

Internet Explorer processes MIME sniffing

safety feature

enabled

Internet Explorer restricted zone download

signed Active X controls

disable

Virtualization based security withoutDMA

Internet Explorer auto complete disabled

Smart card removal behavior lockWorkstation

Block anonymous enumeration of SAM accounts and shares	True
Internet Explorer internet zone allow VBscript to run	disable
Internet Explorer restricted zone allow only approved domains to use tdc Active X controls	enabled
Internet Explorer trusted zone do not run antimalware against Active X controls	disabled
Firewall profile domain	
Firewall profile public	
Scan archive files	True
Internet Explorer local machine zone java permissions	disableJava
Internet Explorer intranet zone do not run antimalware against Active X controls	disabled
Firewall profile private	
Block third-party suggestions in Windows Spotlight	True
Internet Explorer restricted zone scriptlets	disabled
Use enhanced anti-spoofing, when available:	True
Standby states when sleeping while plugged in	disabled
System log maximum file size in KB	65536
Internet Explorer processes notification bar	enabled
Internet Explorer internet zone download signed ActiveX controls	disable
Internet Explorer restricted zone smart screen	enabled
Internet Explorer remove run this time button for outdated Active X controls	enabled
Internet Explorer internet zone launch applications and files in an iframe	disable
Prompt for password upon connection	enabled
Minimum password length	8
Block remote logon with blank password	True
Internet Explorer restricted zone navigate windows and frames across different domains	disable

Digest authentication	disabled
Internet Explorer internet zone smart screen	enabled
Internet Explorer locked down trusted zone java permissions	disableJava
Internet Explorer check signatures on downloaded programs	enabled
Hardware device installation by device identifiers	
Block malicious site access	True
Internet Explorer restricted zone scripting of web browser controls	disabled
Internet Explorer restricted zone cross site scripting filter	enabled
Internet Explorer restricted zone binary and script behaviors	disable
Standard user elevation prompt behavior	promptForCredentialsOnTheSecureDesktop
Behavior monitoring	True
Require admin approval mode for administrators	True
BitLocker removable drive policy	
Remote desktop services client connection encryption level	high
Internet Explorer security settings check	enabled
Internet Explorer internet zone security warning for potentially unsafe files	prompt
Internet Explorer intranet zone java permissions	highSafety
Internet Explorer block outdated Active X controls	enabled
Internet Explorer restricted zone popup blocker	enable
Block unverified file download	True
Scan files opened from network folders	True
Untrusted USB process	block
Block Password Manager	True
Block consumer specific features	True

Application log maximum file size in KB	65536
Require password	True
Internet Explorer processes MK protocol security restriction	enabled
Remote host delegation of non-exportable credentials	enabled
Require password on wake while on battery	enabled
Prevent slide show	enabled
Block simple passwords	True
Office apps other process injection	block
Internet Explorer trusted zone java permissions	highSafety
Internet Explorer restricted zone scripting of java applets	disable
Internet Explorer locked down restricted zone java permissions	disableJava
Prevent anonymous enumeration of SAM accounts	True
Internet Explorer internet zone allow only approved domains to use ActiveX controls	enabled
Block Windows Spotlight	True
Internet Explorer include all network paths	disabled
Voice activate apps from locked screen	disabled
Allow remote calls to security accounts manager	O:BAG:BAD:(A;;RC;;;BA)
Internet Explorer internet zone protected mode	enable
Internet Explorer internet zone initialize and script Active X controls not marked as safe	disable
Basic authentication	disabled
Internet Explorer locked down restricted zone smart screen	enabled
Internet Explorer crash detection	disabled
Office macro code allow Win32 imports	block
Configure Windows Hello for Business:	False
Structured exception handling overwrite protection	enabled

Power shell shell script block logging	enabled
Internet Explorer internet zone java permissions	disableJava
Internet Explorer restricted zone active scripting	disable
Internet Explorer internet zone logon options	prompt
Internet Explorer restricted zone allow vbscript to run	disable
Network ignore NetBIOS name release requests except from WINS servers	enabled
Internet Explorer internet zone drag content from different domains across windows	disabled
Internet Explorer intranet zone initialize and script Active X controls not marked as safe	disable
Remote Assistance solicited	
Internet Explorer download enclosures	disabled
Internet Explorer restricted zone download unsigned Active X controls	disable
Internet Explorer internet zone drag content from different domains within windows	disabled
Internet Explorer processes restrict Active X install	enabled
Use admin approval mode	True
Password minimum age in days	1
Only allow UI access applications for secure locations	True
Block direct memory access	True
Defender cloud block level	notConfigured
Detect application installations and prompt for elevation	True
Internet Explorer internet zone scriptlets	disable
Internet Explorer restricted zone drag and drop or copy and paste files	disable
Internet Explorer software when signature is invalid	disabled
Block downloading of print drivers over HTTP	enabled

Internet Explorer restricted zone copy and paste via script	disable
Internet Explorer restricted zone drag content from different domains across windows	disabled
Internet Explorer users adding sites	disabled
Enable virtualization based security	True
Internet Explorer internet zone script initiated windows	disabled
Internet Explorer security zones use only machine settings	enabled
Prevent storing LAN manager hash value on next password change	True
Prevent certificate error overrides	True
Internet Explorer locked down local machine zone java permissions	disableJava
Internet Explorer restricted zone do not run antimalware against Active X controls	disabled
Internet Explorer restricted zone run .NET Framework reliant components signed with	disable
Authenticode	
•	disabled
Authenticode	
Authenticode Enumerate administrators Internet Explorer restricted zone access to data	
Authenticode Enumerate administrators Internet Explorer restricted zone access to data sources Internet Explorer internet zone do not run	disable
Authenticode Enumerate administrators Internet Explorer restricted zone access to data sources Internet Explorer internet zone do not run antimalware against ActiveX controls Internet Explorer internet zone copy and paste	disable disabled
Authenticode Enumerate administrators Internet Explorer restricted zone access to data sources Internet Explorer internet zone do not run antimalware against ActiveX controls Internet Explorer internet zone copy and paste via script	disable disabled disable
Authenticode Enumerate administrators Internet Explorer restricted zone access to data sources Internet Explorer internet zone do not run antimalware against ActiveX controls Internet Explorer internet zone copy and paste via script Internet Explorer use Active X installer service Internet Explorer processes protection from	disable disable disable enabled
Authenticode Enumerate administrators Internet Explorer restricted zone access to data sources Internet Explorer internet zone do not run antimalware against ActiveX controls Internet Explorer internet zone copy and paste via script Internet Explorer use Active X installer service Internet Explorer processes protection from zone elevation Internet Explorer internet zone download	disable disable disable enabled enabled
Authenticode Enumerate administrators Internet Explorer restricted zone access to data sources Internet Explorer internet zone do not run antimalware against ActiveX controls Internet Explorer internet zone copy and paste via script Internet Explorer use Active X installer service Internet Explorer processes protection from zone elevation Internet Explorer internet zone download unsigned ActiveX controls Internet Explorer internet zone navigate	disable disable disable enabled enabled disable
Authenticode Enumerate administrators Internet Explorer restricted zone access to data sources Internet Explorer internet zone do not run antimalware against ActiveX controls Internet Explorer internet zone copy and paste via script Internet Explorer use Active X installer service Internet Explorer processes protection from zone elevation Internet Explorer internet zone download unsigned ActiveX controls Internet Explorer internet zone navigate windows and frames across different domains Internet Explorer internet zone updates to	disable disable disable enabled enabled disable disable

Internet Explorer restricted zone include local path when uploading files to server	disabled
Block client digest authentication	enabled
Office communication apps launch in a child process	enable
Internet Explorer processes restrict file download	enabled
Network IPv6 source routing protection level	highestProtection
Internet Explorer restricted zone allow only approved domains to use Active X controls	enabled
Virtualize file and registry write failures to per user locations	True
Block auto play for non-volume devices	enabled
Internet Explorer restricted zone initialize and script Active X controls not marked as safe	disable
Lowercase letters in PIN:	allowed
Special characters in PIN:	allowed
Hardware device installation by setup classes	
Block game DVR (desktop only)	True
Unencrypted traffic	disabled
Internet Explorer users changing policies	disabled
Internet Explorer restricted zone protected mode	enable
Internet Explorer internet zone user data persistence	disabled
Internet Explorer internet zone scripting of web browser controls	disabled
Require SmartScreen for apps and files	True
Minimum PIN length:	6
Internet Explorer restricted zone user data persistence	disabled
Network ICMP redirects override OSPF generated routes	disabled
Client unencrypted traffic	disabled
Internet Explorer locked down intranet zone java permissions	disableJava

Internet Explorer enhanced protected mode	enabled
Uppercase letters in PIN:	allowed
Internet Explorer bypass smart screen warnings	disabled
Prevent reuse of previous passwords	24
Internet Explorer restricted zone meta refresh	disabled
Client basic authentication	disabled
Office apps executable content creation or launch	block
Block heap termination on corruption	disabled
Launch system guard	enabled