

February 6th-7th

NIE
20/20 VISION

Oslo Spektrum



Moving from reactive to proactive security in
Azure
@samilaiho

Sami Laiho



Senior Technical Fellow

adminize.com / Sulava

- IT Admin since 1996, MCT since 2001
- MVP in Windows OS since 2011
- **"100 Most Influential people in IT in Finland"**
– TiVi'2019
- Specializes in and trains:
 - Troubleshooting
 - Windows Internals
 - Security, Social Engineering, Auditing
- Trophies:
 - **Ignite 2018 – Session #1 and #2 (out of 1708) !**
 - Best Speaker at NIC, Oslo 2016, 2017 and 2019
 - Best External Speaker at Ignite 2017
 - TechDays Sweden 2016, 2018 – Best Speaker



Slides and demos from the conference will be available at

<https://github.com/nordicinfrastructureconference/2020>

My other stuff: <https://win-fu.com/share/>



English VS Finnish



Land	MAA
Soil	MAA
Ground	MAA
World	MAA
Country	MAA
Area	MAA
Countryside	MAA
Dirt	MAA
Earth	MAA
Suit	MAA
Terrain	MAA



Finnish facial expressions

EXPLAINED



Happy



Sad



Excited



Irritated



Delighted



In love



Shocked



Depressed



Sorrowful



Romantic



Motivated



Perkele

“Make your security better than your neighbours”
- Mikko Hyppönen, F-Secure

Insider threats have increased 47%

<https://www.pandasecurity.com/mediacenter/security/cost-insider-threat-report/>

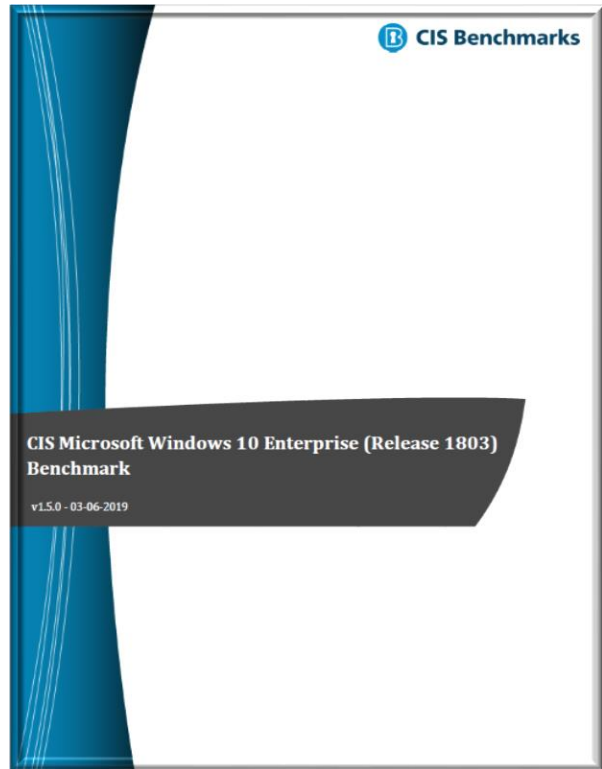
Last year, a Canadian bank suffered a data breach that affected some 2.7 million people and around 173,000 companies. The stolen information included names, addresses, dates of birth, social insurance numbers, email addresses and information on customers transaction habits. The culprit of this breach? A malicious insider.

What does the
Cloud change?



Implementing baselines

CIS?



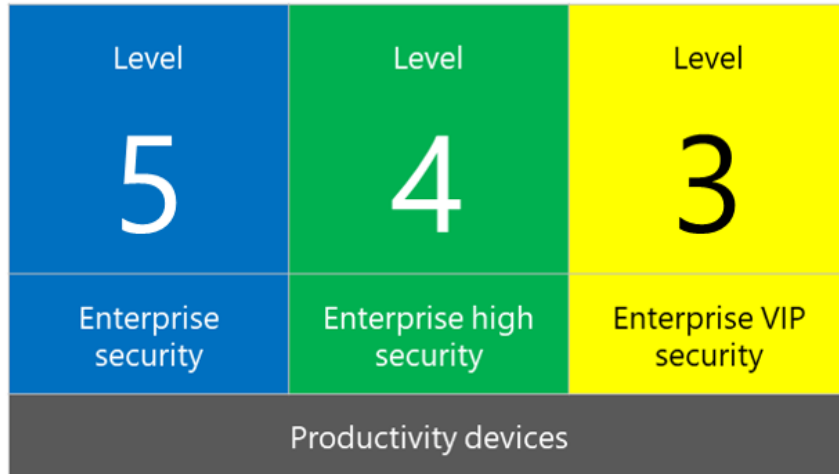
1262 | Page

NIC

Getting the baselines for 1809 and 2019

- More traditional way:
<https://blogs.technet.microsoft.com/secguide/2018/11/20/security-baseline-final-for-windows-10-v1809-and-windows-server-2019/>
- For Intune: <https://docs.microsoft.com/en-us/intune/security-baselines>

2019→



<https://docs.microsoft.com/en-us/windows/security/threat-protection/windows-security-configuration-framework/windows-security-configuration-framework>

NIC

Implementing Bitlocker

Create profile

×

*

Name

BitLocker Policy

✓

Description

Enter a description...

✓

*

Platform

Windows 10 and later

▼

*

Profile type

Endpoint protection

▼

Settings

Configure

>

Create

Windows encryption

Windows 10 and later

Windows Settings

Require devices to be encrypted (Desktop only)

Enable

Not configured

Require Storage Card to be encrypted (mobile only)

Enable

Not configured

BitLocker base settings

Configure encryption methods

Enable

Not configured

Encryption for operating system drives

XTS-AES 128-bit

Encryption for fixed data drives

XTS-AES 128-bit

Encryption for removable data drives

AES-CBC 128-bit

BitLocker OS drive settings

Require additional authentication at startup

Enable

Not configured

Block BitLocker on devices without a compatible TPM chip

Enable

Not configured

TPM startup

Allow TPM

TPM startup PINs

Allow startup PINs with TPM

TPM startup key

Allow startup key with TPM

TPM startup key and PINs

Allow startup key and PINs with TPM

Minimum PINs length

Enable

Not configured

* Minimum characters

Not configured

Enable OS drive recovery

Enable

Not configured

Allow certificate-based data recovery agent

Enable

Not configured

User creation of recovery password

Allow 48-digit recovery password

User creation of recovery key

Allow 256-bit recovery key

Hide recovery options in the BitLocker setup wizard

Enable

Not configured

Save BitLocker recovery information to AD DS

Enable

Not configured

Configure storage of BitLocker recovery information to AD DS

Backup recovery passwords and key packages

Require recovery information to be stored in AD DS before enabling BitLocker

Enable

Not configured

Enable pre-boot recovery message and URL

Enable

Not configured

The pre-boot recovery message

Use default recovery message and URL

BitLocker fixed data-drive settings

Only write access to fixed data-drive not protected by BitLocker

Enable

Not configured

Enable fixed drive recovery

Enable

Not configured

Allow data recovery agent

Enable

Not configured

User creation of recovery password

Allow 48-digit recovery password

User creation of recovery key

Allow 256-bit recovery key

Hide recovery options in the BitLocker setup wizard

Enable

Not configured

Save BitLocker recovery information to AD DS

Enable

Not configured

Configure storage of BitLocker recovery information to AD DS

Backup recovery passwords and key packages

Require recovery information to be stored in AD DS before enabling BitLocker

Enable

Not configured

BitLocker removable data-drive settings

Only write access to removable data-drive not protected by BitLocker

Enable

Not configured

Block write access to devices configured in another organization

Enable

Not configured

Are you ready to start encryption?

Disk encryption software other than BitLocker or Windows device encryption will prevent Windows from starting after you encrypt your device. If this happens, you'll need to reinstall Windows, and all data on your device will be lost.

☐ I don't have any other disk encryption software installed.

☐ Don't ask me again.

[Learn more](#)

Yes No

DIE

Windows 10 Device HealthAttestation - Properties

Device compliance policy

Search (Ctrl+I)

Overview

MANAGE

Properties

Assignments

MONITOR

Device status

User status

Per-setting status

Save Discard

Name

Windows 10 Device HealthAttestation

Description

Enter a description...

Platform

Windows 10 and later

Settings

2 configured

Windows 10 compliance pol...

Windows 10 and later

Select a category to configure settings.

Device Health

1 of 3 settings configured

Device Properties

4 settings available

System Security

1 of 9 settings configured

Device Health

Windows 10 and later

Windows Health Attestation Service evaluation rules

Require bitlocker

Require

Not configured

Require secure boot to be enabled on the device

Require

Not configured

Require code integrity

Require

Not configured

Device compliance - Policy compliance

Microsoft Intune

Search (Ctrl+I)

Overview

MANAGE

Policies

MONITOR

Device compliance

Setting compliance

Policy compliance

SETUP

Compliance policy settings

Mobile Threat Defense

HELP AND SUPPORT

Help and support

Export

Filter items...

POLICY	COMPLIANT DEVICES	NONCOMPLIANT DEVICES
Windows 10 Device HealthAttestation	0	0
BYOD Device Compliance Policy - iOS	10	0

Device status

Columns Export

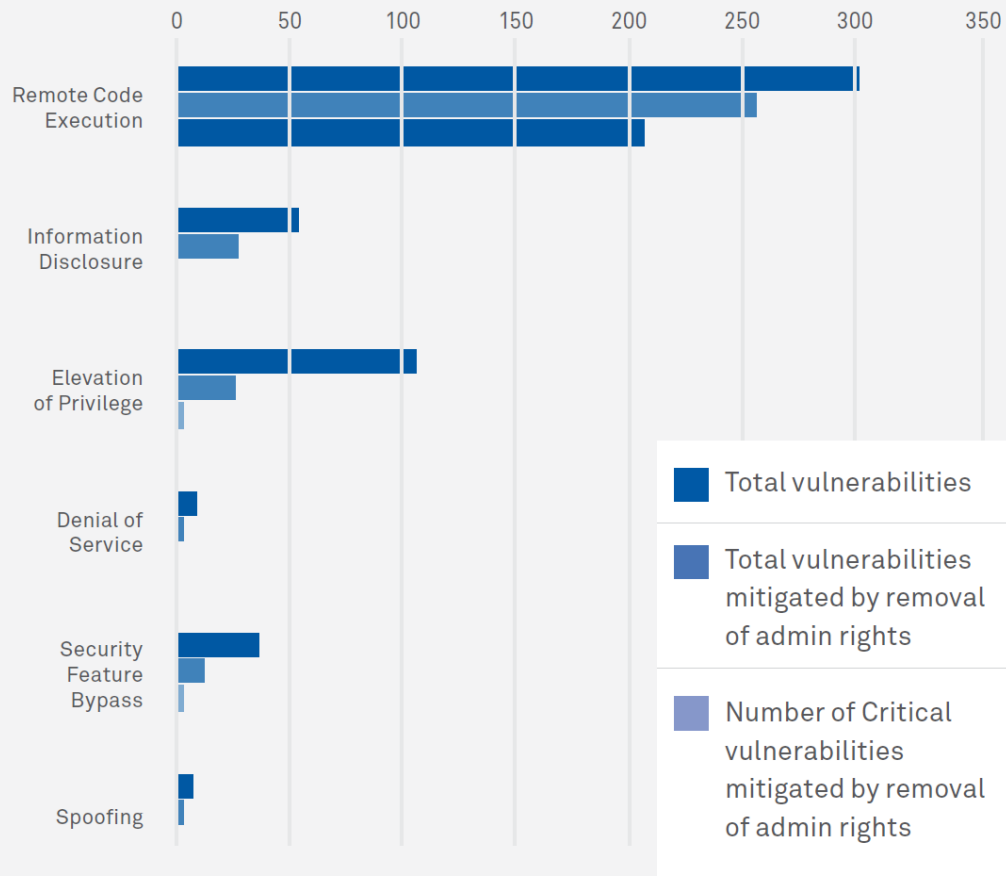
DEVICE	USER	COMPLIANCE STAT
DESKTOP-2D4V7PP	cbernier@CBEnterpriseMobility.o...	error
DESKTOP-VA455CC	jtest@CBEnterpriseMobility.onmi...	error

Implementing least privilege

2015

- Analysis of Microsoft “Patch Tuesday” Security Bulletins from 2015
 - 85% of Critical Microsoft vulnerabilities would be mitigated by removing admin rights
- Windows Server vulnerabilities
 - 85% were found to be mitigated by the removal of admin rights

Breakdown of Microsoft Vulnerability Categories in 2015



2016 Microsoft Vulnerabilities Study

Key findings

- Of the 189 vulnerabilities in 2016 with a Critical rating, 94% were concluded to be mitigated by removing administrator rights
- 66% of all Microsoft vulnerabilities reported in 2016 could be mitigated by removing admin rights
- 100% of vulnerabilities impacting Microsoft's latest browser Edge could be mitigated
- 100% of vulnerabilities in Internet Explorer and Chrome could be mitigated by removing admin rights
- 99% of vulnerabilities affecting Microsoft Office could be mitigated by removing admin rights
- 93% Critical vulnerabilities affecting Windows 10 could be mitigated by removing admin rights

Microsoft Vulnerabilities Report 2017

The 2017 report highlights the following key findings:

- Removing admin rights would mitigate 80% of all Critical Microsoft vulnerabilities in 2017.
- 95% of Critical vulnerabilities in Microsoft browsers can be mitigated by removing administrator rights.
- Almost two thirds of all Critical vulnerabilities in Microsoft Office products are mitigated by removing admin rights.
- **88% of all Critical vulnerabilities reported by Microsoft over the last five years would have been mitigated by removing admin rights.**

S*it 'o' meter

- DEMO

“75% reduction in tickets after
implementing Least Privilege”

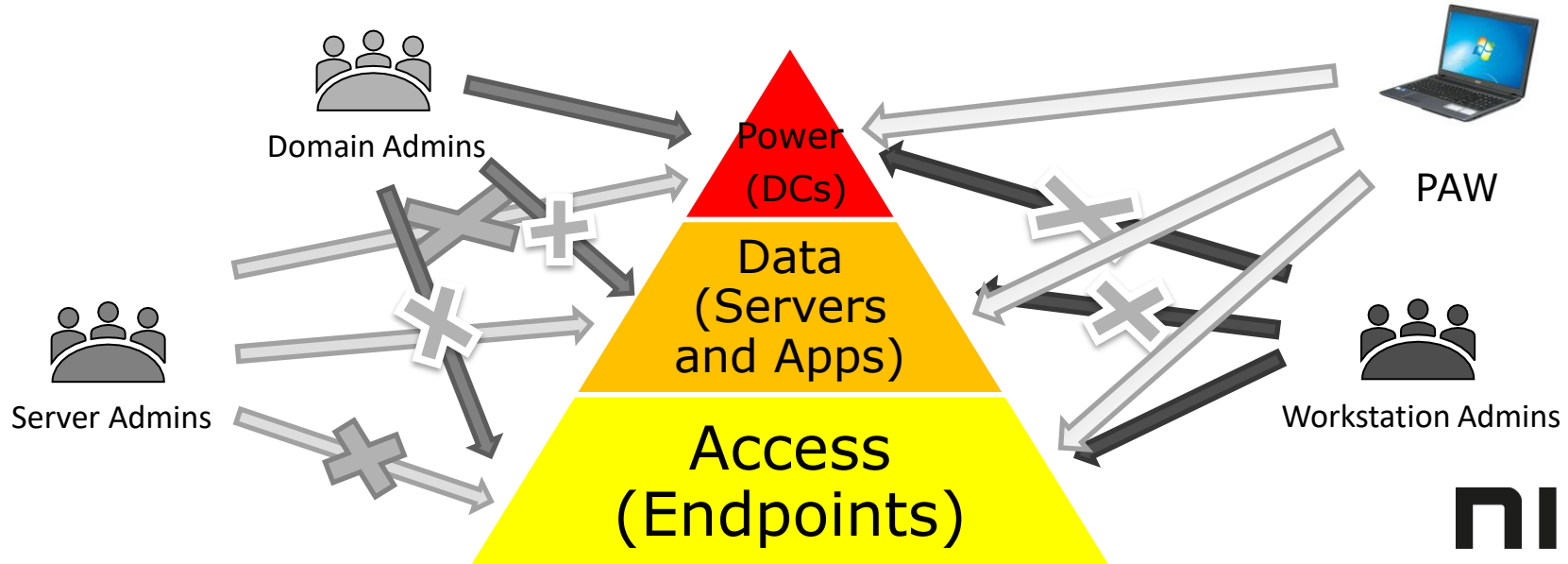
Same as for on-prem

- Centro Carillon
- PolicyPak
- BeyondTrust

Implementing the Tier Model

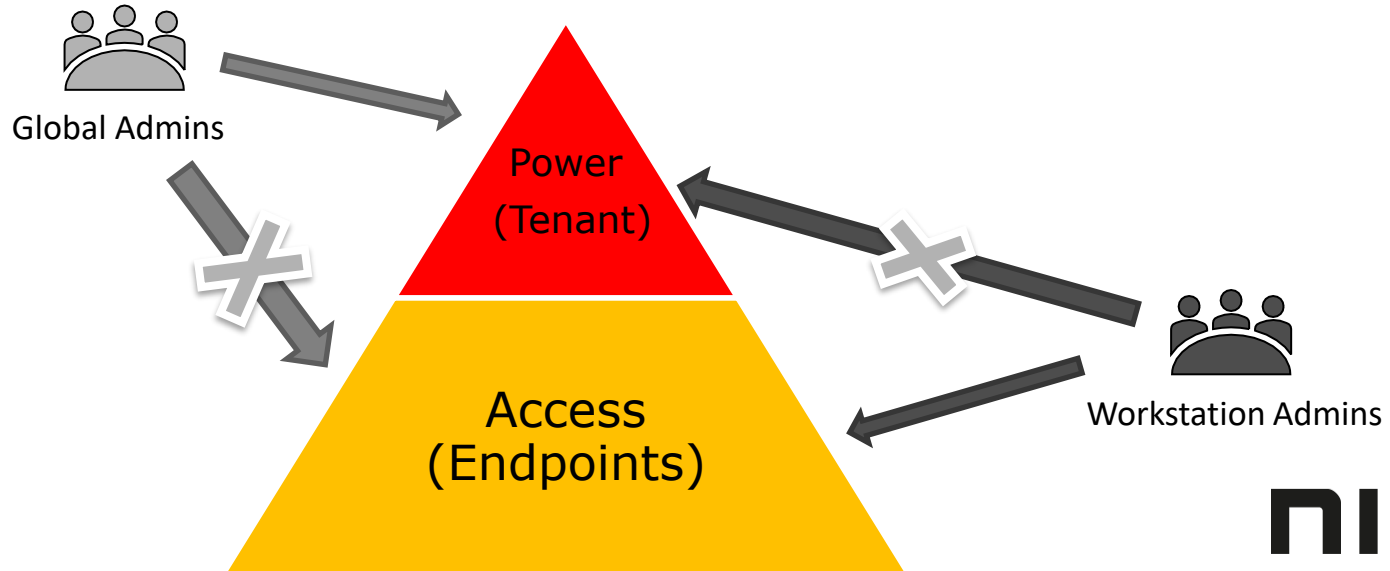
Mitigating PtH (IAAS)

- Split your environment into three layers (Azure minimum 2 layers)
- Never allow higher layer admins to logon to lower layers



Mitigating PtH (Native Cloud)

- Split your environment into two layers
- Never allow higher layer admins to logon to lower layers



Implementing

- Create a local group
 - New-LocalGroup -Name "BLOCK LOGON"
- Block logon from them

```
Administrator: Windows PowerShell
PS C:\Users\SamiLaiho\Downloads> Import-Module .\UserRights.ps1

Do you want to run software from this untrusted publisher?
File C:\Users\SamiLaiho\Downloads\UserRights.ps1 is published by E=serverteam@edictsyste.ms.com, CN="Edict Systems, Inc.", OU="Edict Systems, Inc.", O="Edict Systems, Inc.", L=Beavercreek, S=Ohio, C=US and is not trusted on your system. Only run scripts from trusted publishers.
[V] Never run [D] Do not run [R] Run once [A] Always run [?] Help (default is "D"): a
PS C:\Users\SamiLaiho\Downloads> Grant-UserRight -Account "BLOCK LOGON" -Right SeDenyInteractiveLogonRight
```

- <https://gallery.technet.microsoft.com/scriptcenter/Grant-Revoke-Query-user-26e259b0>
- Add the Global Admins to this group

Global Admins

- There should only be a very limited amount of them anyway
- Figure out their SIDs from the local machine and add to the group with PowerShell

```
C:\WINDOWS\system32>whoami /all  
  
USER INFORMATION  
-----  
  
User Name      SID  
=====
```

azuread\admin	S-1-12-1-2097157045-1280873170-2182225078-2682104764
---------------	--

- Add-LocalGroupMember -Group "BLOCK LOGON" -Member S-1-12-1-2097157045-1280873170-2182225078-2682104764

Global Reader

- <https://techcommunity.microsoft.com/t5/Azure-Active-Directory-Identity/16-new-built-in-roles-including-Global-reader-now-available-in/ba-p/900749>



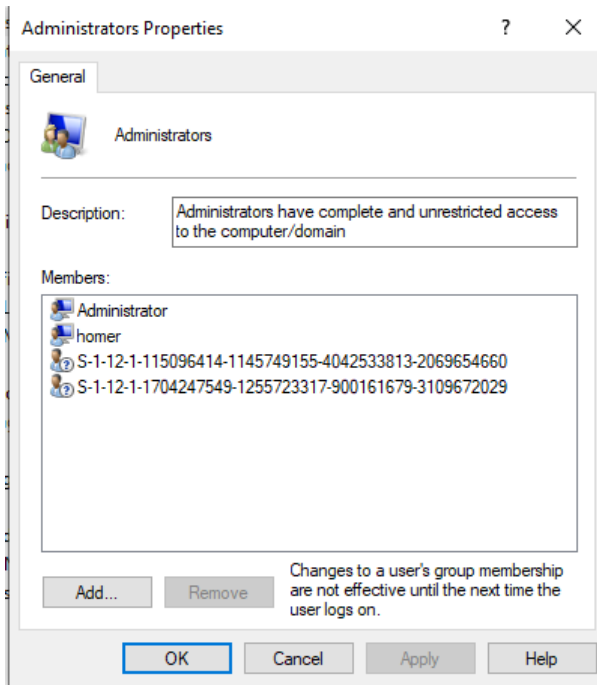
Alex Simons (AZURE) Microsoft

10-10-2019 09:00 AM ✓

16 new built-in roles—including Global reader—now available

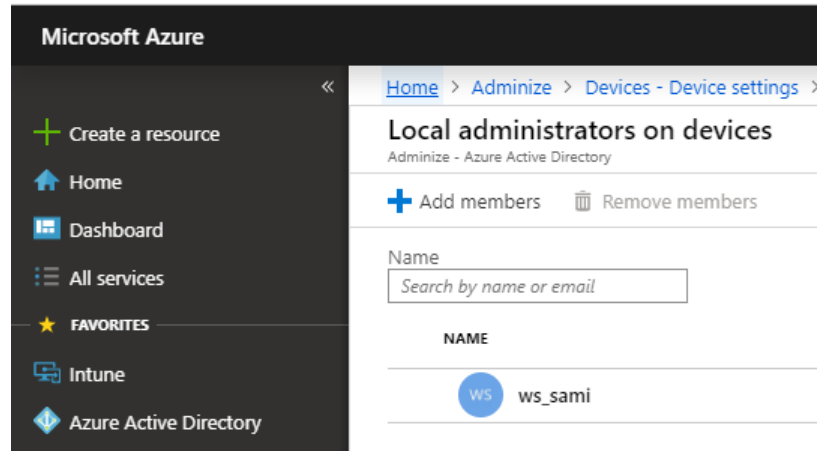
Don't remove these

Applies to all "Azure admins"
including "Device
Administrators"



Add Device Admins

- Hopefully soon via a group



Implementing PAWs

Concept of PAW

- You should do management from a PAW
- You can enforce by Firewall-rules, Proxies etc.



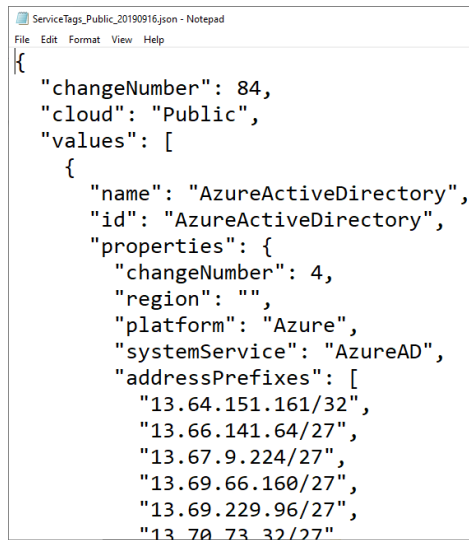
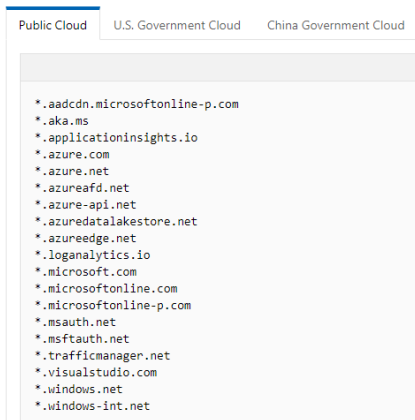
PAW

Safe addresses

- <https://docs.microsoft.com/en-us/azure/azure-portal/azure-portal-safelist-urls?tabs=public-cloud>

Azure portal URLs for proxy bypass

The URL endpoints to safelist for the Azure portal are specific to the cloud, then add the list of URLs to your proxy server or firewall to allow access.



Implementing Whitelisting





AppLocker HOW TO

- Keep to containers not items – Folders vs Files, Publishers vs Hashes
- Remember to audit your installation with AccessChk!
- Remember NO ADMIN RIGHTS!!

Simplest AppLocker

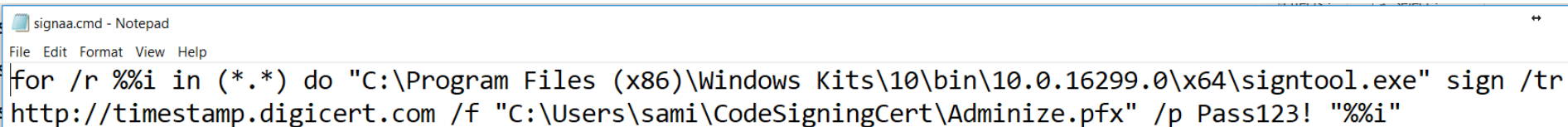
Action	User	Name	Condition	Exceptions
✓ Allow	Everyone	Signed by *	Publisher	
✓ Allow	Everyone	All files located in the Program Files folder	Path	Yes
✓ Allow	Everyone	All files located in the Windows folder	Path	Yes
✓ Allow	BUILTIN\Ad...	(Default Rule) All files	Path	

Simplest AppLocker for many

Action	User	Name	Condition	Exceptions
 Allow	Everyone	Signed by O=MATTI LAIHO OY, L=HELSINKI, C=FI	Publisher	
 Allow	BUILTIN\Ad...	All files	Path	
 Allow	Everyone	All files located in the Program Files folder	Path	
 Allow	Everyone	All files located in the Windows folder	Path	Yes

Signing

- 95% of Malware is not signed – just something to think about
- You can sign apps yourself
 - Use Timestamp if possible!
- If you have the cert on your computer installed:
 - **Signtool sign /v /s MY /n MyPrivateCert**
/t <http://timestamp.verisign.com/scripts/timestamp.dll> FileToSign.exe
- If not:



```
signaa.cmd - Notepad
File Edit Format View Help
for /r %%i in (*.*) do "C:\Program Files (x86)\Windows Kits\10\bin\10.0.16299.0\x64\signtool.exe" sign /tr
http://timestamp.digicert.com /f "C:\Users\sami\CodeSigningCert\Adminize.pfx" /p Pass123! "%%i"
```

- Guide: <https://blogs.msdn.microsoft.com/winsdk/2009/11/13/steps-to-sign-a-file-using-signtool-exe/>

AppLocker Example Policies

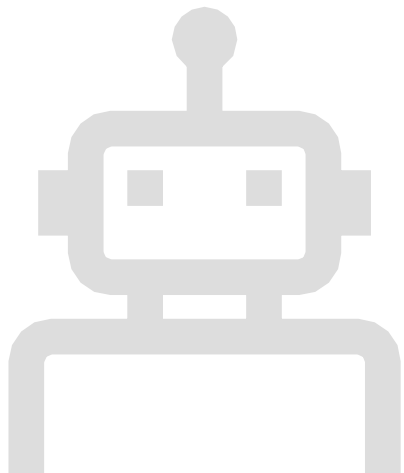
AppLocker example

- My current baseline
 - Replace Matti Laiho with you companies own cert
 - Replace HP with your UEFI provider
 - Add Block-rules for known weaknesses: <https://docs.microsoft.com/en-us/windows/security/threat-protection/windows-defender-application-control/microsoft-recommended-block-rules>

Action	User	Name	Condition	Exceptions
✓ Allow	Everyone	Signed by O=CISCO WEBEX LLC, L=SAN JOSE, S=CALIFORNIA, C=US	Publisher	
✓ Allow	Everyone	Signed by O=GOOGLE INC, L=MOUNTAIN VIEW, S=CALIFORNIA, C=US	Publisher	
✓ Allow	Everyone	Signed by O=MICROSOFT CORPORATION, L=REDMOND, S=WASHINGTON, ...	Publisher	Yes
✓ Allow	Everyone	Signed by O=SYSINTERNALS, L=REDMOND, S=WASHINGTON, C=US	Publisher	
✓ Allow	Everyone	Signed by O=TEAMVIEWER GMBH, L=GOEPPINGEN, S=BADEN-WUERTTEMB...	Publisher	
✓ Allow	Everyone	Signed by O=HP INC., L=PALO ALTO, S=CA, C=US	Publisher	
✓ Allow	Everyone	Signed by O=MATTI LAIHO OY, L=HELSINKI, C=FI	Publisher	
✓ Allow	Everyone	All files located in the Program Files folder	Path	Yes
✓ Allow	BUILTIN\Administrators	All files	Path	
✓ Allow	Everyone	All files located in the Windows folder	Path	Yes

My customer devices

- Basic rules + AccessChk revealed exceptions
- Use certificates if you can (and trust the company)
- **Then add required network locations with**
 - UNC
 - IP
 - FQDN
 - Sometimes also with the drive letter: P:, \\SVR\Share, \\SVR.dom.com\share, and \\192.1.1.2\Share
- Then add local applications outside of the default folders with Certs, Folders (if they can be blocked from writing to by limited users)
- Problematic ones
 - Self-updating, not signed and stored in users profile
 - TIP! File/Folder rules allow * at any point!
 - Use with caution – but usually need some! Try to use HASH rather if possible!



Tip for Companies (why not consumers)

- Block PowerShell from limited users – not a single ransomware would have worked so far 😊

Hardening Applocker

Twitter

- @Oddvarmoe
- @subTee
- @mattifestation
- @enigma0x3
- @aionescu
- @tifkin_
- @bohops
- @PhilipTsukerman
- @samilaiho ;)

Hardening Whitelisting

Make sure your containers don't leak (this is one batch file) – CHECK THE LATEST FROM GITHUB!

```
AccessChk.bat

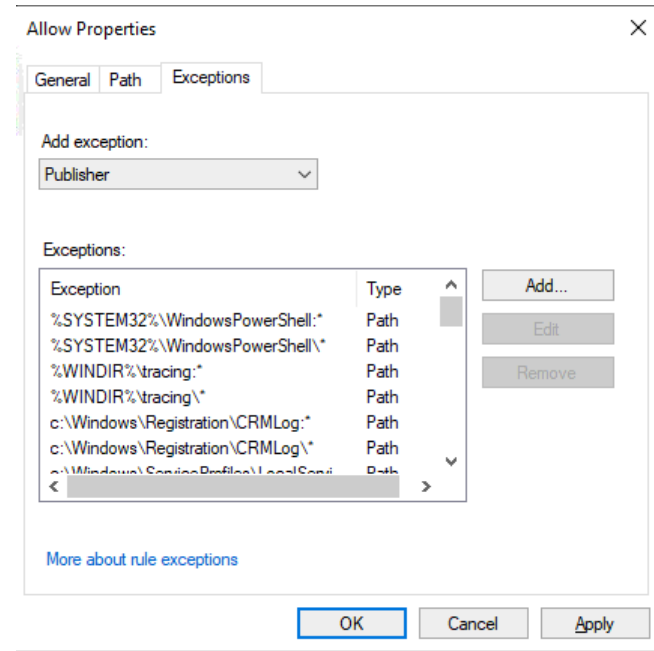
1 accesschk -w -s -q -u Users "C:\Program Files" >> programfiles.txt
2 accesschk -w -s -q -u Everyone "C:\Program Files" >> programfiles.txt
3 accesschk -w -s -q -u "Authenticated Users" "C:\Program Files" >> programfiles.txt
4 accesschk -w -s -q -u Interactive "C:\Program Files" >> programfiles.txt
5 accesschk -w -s -q -u "This Organization" "C:\Program Files" >> programfiles.txt
6 accesschk -w -s -q -u "Authentication authority asserted identity" "C:\Program Files" >> programfiles.txt
7 accesschk -w -s -q -u "Mandatory Label\Medium Mandatory Level" "C:\Program Files" >> programfiles.txt
8 accesschk -w -s -q -u %Username% "C:\Program Files" >> programfiles.txt
9
10 accesschk -w -s -q -u Users "C:\Program Files (x86)" >> programfilesx86.txt
11 accesschk -w -s -q -u Everyone "C:\Program Files (x86)" >> programfilesx86.txt
12 accesschk -w -s -q -u "Authenticated Users" "C:\Program Files (x86)" >> programfilesx86.txt
13 accesschk -w -s -q -u Interactive "C:\Program Files (x86)" >> programfilesx86.txt
14 accesschk -w -s -q -u "This Organization" "C:\Program Files (x86)" >> programfilesx86.txt
15 accesschk -w -s -q -u "Authentication authority asserted identity" "C:\Program Files (x86)" >> programfilesx86.txt
16 accesschk -w -s -q -u "Mandatory Label\Medium Mandatory Level" "C:\Program Files (x86)" >> programfilesx86.txt
17 accesschk -w -s -q -u %Username% "C:\Program Files (x86)" >> programfilesx86.txt
18
19 accesschk -w -s -q -u Users "C:\Windows" >> windows.txt
20 accesschk -w -s -q -u Everyone "C:\Windows" >> windows.txt
21 accesschk -w -s -q -u "Authenticated Users" "C:\Windows" >> windows.txt
22 accesschk -w -s -q -u Interactive "C:\Windows" >> windows.txt
23 accesschk -w -s -q -u "This Organization" "C:\Windows" >> windows.txt
24 accesschk -w -s -q -u "Authentication authority asserted identity" "C:\Windows" >> windows.txt
25 accesschk -w -s -q -u "Mandatory Label\Medium Mandatory Level" "C:\Windows" >> windows.txt
26 accesschk -w -s -q -u %Username% "C:\Windows" >> windows.txt
```

<https://gist.github.com/api0cradle/95cd51fa1aa735d9331186f934df4df9#file-accesschk-bat>



Add always the ADS-version of a folder as well

- %WINDIR%\tracing*
- %WINDIR%\tracing:*



Hardening Whitelisting

- Remember to repeat the previous for every Folder-Rule you have...

Tools to help

- Oddvar Moe's
 - **Ultimate AppLocker ByPass List**
 - <https://github.com/api0cradle/UltimateAppLockerByPassList>
 - PowerAL
 - <https://github.com/api0cradle/PowerAL>
- AaronLocker
 - https://blogs.msdn.microsoft.com/aaron_margosis/2019/01/28/aaronlocker-moved-to-github/
- Microsoft's list of what to block: <https://docs.microsoft.com/en-us/windows/security/threat-protection/windows-defender-application-control/microsoft-recommended-block-rules>

InTune + AppLocker

- https://blogs.technet.microsoft.com/matt_hinsons_manageability_blog/2018/08/21/blocking-apps-with-intune-and-applocker-csp/

from the dropdown menu. Click **OK** to close the window.

11. In the left pane, right-click on the **AppLocker** node and select **Export Policy**

12. **File Explorer** will open. Save the XML to a location on the test device and copy it to your primary machine

Working with the XML

So we've got our XML and earlier we mentioned we need the XML as it will be the Policy string value for our OMA-URI. If only it were that easy. What our docs don't tell you is if you were to copy and paste all of the XML file contents to the Policy string value for our OMA-URI and deploy it, it will fail. What we have to do is copy only a subset of the XML and use that as our Policy string value. Not sure why, but there is zero mention of this on the AppLocker CSP docs page. It took some trial and error and discussing with some colleagues to understand why this was failing for me at first because I was following the docs. Hence the reason for this blog, so you don't waste 8 hours wondering what the heck is going on. Let's take a look at the XML and I'll explain what subset is required for the policy to work properly.

```
<AppLockerPolicy Version="1">
<RuleCollection Type="Appx" EnforcementMode="NotConfigured" />
<RuleCollection Type="Dll" EnforcementMode="NotConfigured" />
<RuleCollection Type="Exe" EnforcementMode="Enabled">
<FilePathRule Id="921cc481-6e17-4653-8f75-050b80acca20" Name="(Default Rule) All files located in the Program Files folder"
Description="Allows members of the Everyone group to run applications that are located in the Program Files folder."
UserOrGroupSid="S-1-1-0" Action="Allow">
<Conditions>
<FilePathCondition Path="%PROGRAMFILES%\*" />
</Conditions>
```



Endpoint protection

Windows 10 and later






Windows Defender Application Control

Windows 10 and later



+ New

 Dashboard All resources Intune Azure Active Directory Resource groups App Services Function Apps SQL databases Azure Cosmos DB Virtual machines Load balancers Storage accounts Virtual networks Monitor

More services >

Select a category to configure settings.

Application Guard
7 settings available >Windows Defender Firewall
43 settings available >Windows Defender SmartScreen
2 settings available >Windows Encryption
10 settings available >Windows Defender Exploit Guard
14 settings available >Windows Defender Application Co...
1 setting available >

OK

Choose additional apps that either need to be audited by, or can be trusted to run by application control code integrity policies. Windows components, all apps from Windows store are automatically trusted to run.

Applications will not be blocked when running in "audit only" mode. "Audit only" mode logs all events in local client logs. [Learn more about Device Guard deployment.](#)

Application control code integrity policies: ⓘ

Enforce ▼

Trust apps with good reputation: ⓘ

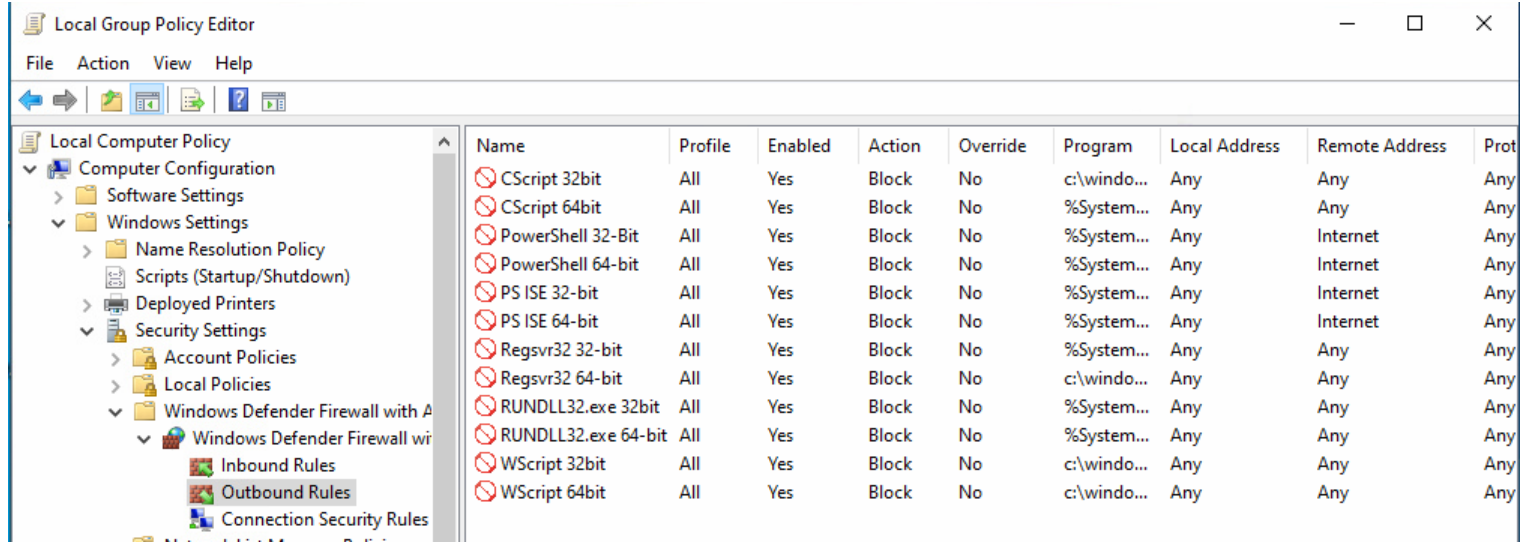
Enable ▼

Only Windows components, Microsoft store apps, and reputable apps as defined by the Intelligent Security Graph will be allowed to run.

OK

Implementing Firewall and IPsec

Firewall



How I use IPsec

- Require Inbound, Request Outbound
- Kerberos for users and computers
- Exclude DC's and hard cases – You don't need to get to 100%!
- Buy printers (etc) that can have a certificate if possible

Implementing Group Policy

InTune and AppLocker/Firewall

GPO2INTUNE ☺

```
#Makes a PowerShell script of a local GPO for distributing as a PS script via InTune - Sami Laiho'2019
New-Item -ItemType directory -Path $env:temp\GPO
Compress-Archive -Path C:\Windows\System32\GroupPolicy\ -DestinationPath $env:temp\GPO\gpo.zip -Compress

$Content = Get-Content -Path $env:temp\GPO\GPO.zip -Encoding Byte
$Base64 = [System.Convert]::ToBase64String($Content)

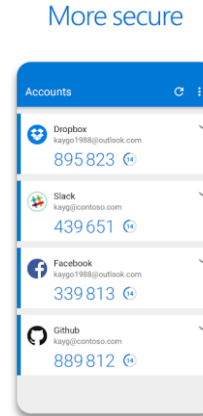
Write-Output 'New-Item -ItemType directory -Path c:\temp\GPO -Force' | Out-File "$env:temp\GPO\test-$(get-date -f yyyy-MM-dd).ps1" -Append
Write-Output '$Base64 = "'$Base64'"' | Out-File "$env:temp\GPO\test-$(get-date -f yyyy-MM-dd).ps1" -Append
Write-Output '$Content = [System.Convert]::FromBase64String($Base64)' | Out-File "$env:temp\GPO\test-$(get-date -f yyyy-MM-dd).ps1" -Append
Write-Output 'Set-Content -Path C:\temp\GPO\GPO.zip -Value $Content -Encoding Byte' | Out-File "$env:temp\GPO\test-$(get-date -f yyyy-MM-dd).ps1" -Append
Write-Output 'Expand-Archive -Path C:\temp\GPO\gpo.zip -DestinationPath C:\Windows\System32\GroupPolicy' | Out-File "$env:temp\GPO\test-$(get-date -f yyyy-MM-dd).ps1" -Append
Write-Output 'Remove-Item c:\temp\gpo\gpo.zip' | Out-File "$env:temp\GPO\test-$(get-date -f yyyy-MM-dd).ps1" -Append

Remove-Item $env:temp\GPO\gpo.zip
Write-Host "Your file to upload to InTune is in $env:temp\GPO"

# SIG # Begin signature block
# MIIb7AYJKoZIhvcNAQcCoIIb3TCCG9kCAQEXCzAJBgUrDgMCGGUAMGkGCisGAQQB
```

Setup MFA where ever possible

- Setup Multi-Factor Authentication (MFA) service settings and enable MFA for all possible accounts
 - <https://docs.microsoft.com/en-us/azure/active-directory/authentication/howto-mfa-mfasettings#mfa-service-settings>



2 Factor Authentication!

Smart Cards are difficult,
Virtual Smart Cards will be
deprecated... So let me
introduce the Future of
2FA.....

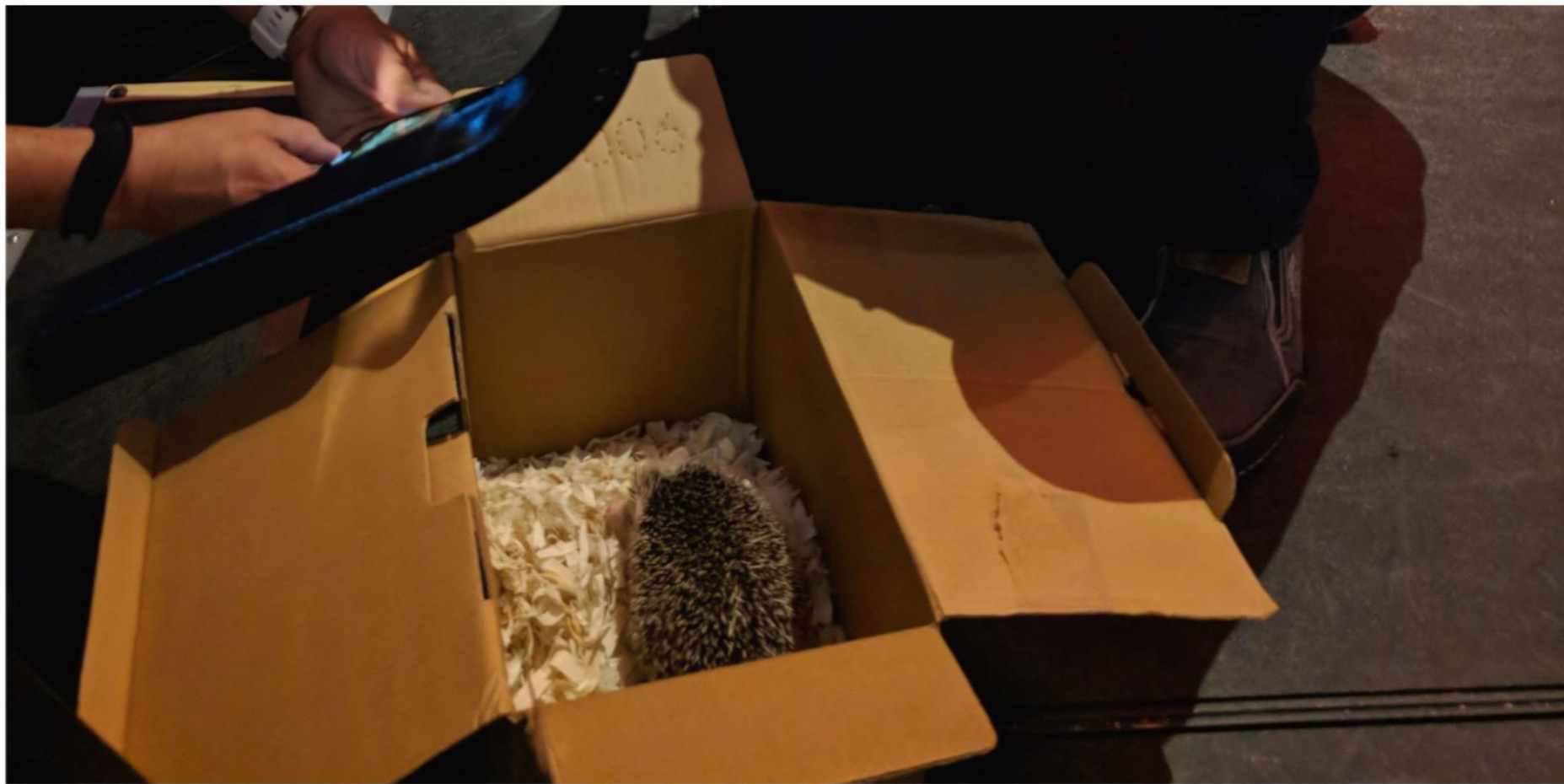
Name: Token

Token Type: Live, Hedgehog

Token lifetime: 5-8 years

Tamper Protection: Yes



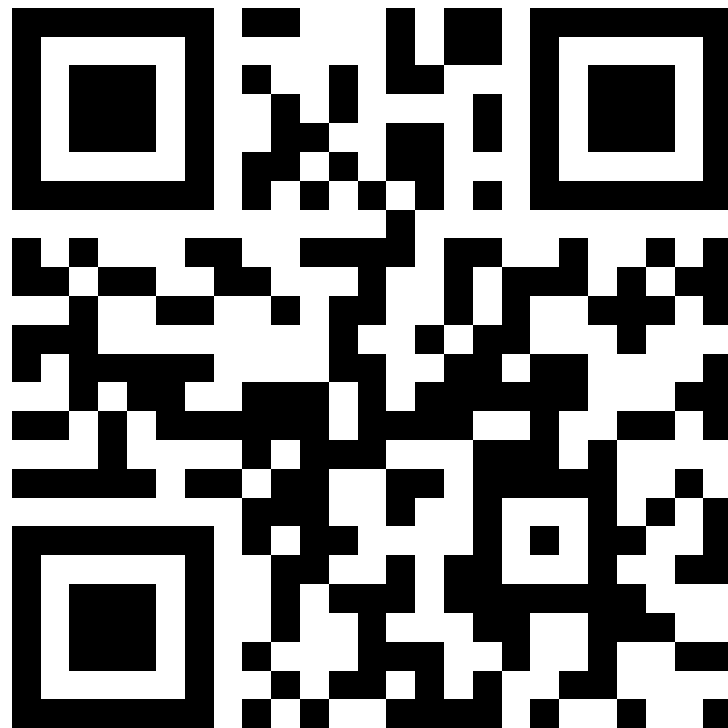


Checklist for Security

- <https://www.itpromentor.com/azure-ad-checklist/>

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- Free newsletter: <http://eepurl.com/F-GOj>
- My trainings:
 - <https://win-fu.com/events>
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 - Free for one month!!
Code: "Trial2018"
 - PluralSight: If you need a code email me!



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