Oppsett av user-id med integrert agent

Oppskriften er basert på dokumentasjon fra Palo Alto Networks, men strippet ned til kun relevant informasjon.

Om oppsett

WinRM over HTTP with Kerberos brukes for å slippe å vedlikeholde sertifikat. Kerberos-protokollen gir alene høy nok sikkerhet.

Det er antagelig mulig å stramme inn enda litt til, men det krever mer labbing.

Merk at alt er forslag fra Palo Alto, og i enkelte miljø kan det hende lokale tilpasninger må gjøres av AD-administrator. Prinsippene bør likevel værel ike.

Opprett service-bruker

Gjøres av Windows-administrator

I Active Directory Users and Computers, lag ny user vha. New > User. Plasseres enten i Managed Service Accounts, eller i annen dedikert OU for slike kontoer. Sørg for at passord er never expire.

Fjern remote access

Åpne Properties på den opprettede kontoen, velg Dial-In og merk av Deny Access under Network Access Permission

Properties	;			? ×	
General Addr Remote Desk Dial-in	ess Account Profile top Services Profile Environment	Telephones 0 Personal Virtual Sessions	rganization Desktop Remote	Member Of COM+ e control	
Network Acc C Allow acc C Deny acc C Control ac	ess Permission ess <mark>ess</mark> ccess through NPS Net	work Policy			
 Verify Caller-ID: Callback Options No Callback Set by Caller (Routing and Remote Access Service only) Always Callback to: 					
Define IP ad Dial-in conn	atic IP Addresses ddresses to enable for th ection.	nisStatic IF	⁹ Addresses .		
Define route connection.	tic Routes	-in SI	tatic Routes		
	ОК	Cancel A	pply	Help	

Gruppemedlemskap

Systembrukeren må legges inn følgende to grupper under Bultin

- Event Log Reader
- Distributed COM Users
- Remote Management Users

Select Users, Contacts, Computers, Service Accounts, or Groups	×
Select this object type:	
Users, Service Accounts, Groups, Built-in security principals, or Other o	Object Types
From this location:	1
	Locations
Enter the object names to select (examples):	
	Check Names
Advanced OK	Cancel

Select Users, Contacts, Computers, Service Accounts, or Groups	×
Select this object type: Users, Service Accounts, Groups, Built-in security principals, or Other o	Object Types
From this location:	
	Locations
Enter the object names to select (<u>examples</u>):	
	Check Names
Advanced OK	Cancel

WMI Namespace

På en DC, utfør følgende

1. Åpne MMC-konsoll

wmimgmt.msc

- 1. Høyreklikk WMI Control og velg Properties
- 2. Velg Security tab
- 3. Merk CIMV2 i treet, og klikk på knappen Security
- 4. Legg til servicekonto
- 5. Servicekonto må gis følgende rettigheter
 - Enable Account
 - Remote Enable

Verifiser at endringen trår i kraft på samtlige DC-er som brukes til pålogging i domenet.

🔚 wmimgmt - [Console Root\WMI Control (Local)]				
🚠 File Action View Favorites Window Help			_ 8 ×	
here 🔿 🔁 🖬 📮 🔽 🗊				
Console Root		Actions		
Connect to another computer	agement on (WMI)	WMI Control (Local)		
View New Window from Here	e Windows tion (WMI) service.	More Actions	•	
New Taskpad View				
Properties				
Help		<u> </u>		
Opens the properties dialog box for the current selection.				

WMI Control (Local) Properties

General	Backup/Restore	Security	Advanced			
Namesp	ace navigation allo	ws you to s	et namespac	ce specif	fic security.	
B	Root					^
E E	AccessLoggir	ng				
	ADFS					
		ns				
	🗄 🕖 mdm					
	🗄 🖳 🔃 ms_409					
	Here in the second seco					
	E Securty	Convices				
	<mark>}</mark> n Ci	oel vices				
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±	Interop					~
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					<u>S</u> ecurity	
		OK		Cancel	A	ply

Security for ROOT\CIMV2

Х

NETWORK SERVIC	E)	
ζ ()	
Administrators ()	
<		> `
	Add	Remove
Permissions for pa	Allow	Deny
Provider Write		
Enable Account		
Remote Enable		
Read Security		
Edit Security		
For special permissions or click Advanced.	advanced settings,	Advanced

Stripp unødvendige rettigheter

Ved hjelp av Group Policy Management Editor, legg servicekonto inn i følgende deny-policies.

- Deny log on as a batch job
- Deny log on locally
- Deny log on through Remote Desktop Services

For hver policy

- Høyreklikk
- Velg Properties
- Velg Define these policy settings
- Add User or Group.

Som default ligger disse under **Default Domain Policy** > **Computer Configuration** > **Policies** > **Windows Settings** > **Security Settings** > **User Rights Assignment**

File Action View Help		
🔶 🔿 🗾 🗰 💥 🗟 📔 🎫		
 Policy Policy Computer Configuration Policies Software Settings Windows Settings Windows Settings Windows Settings Soripts (Startup/Shutdown) Scripts (Startup/Shutdown) Security Settings Local Policies Local Policies Local Policy Security Options Event Log Event Log Restricted Groups 	Policy Create permanent shared objects Create symbolic links Debug programs Deny access to this computer from the network Deny log on as a batch job Deny log on as a service Deny log on locally Deny log on through Remote Desktop Services Enable computer and user accounts to be trusted for delegation Force shutdown from a remote system Generate security audits Impersonate a client after authentication Increase a process working set	Policy Setting Not Defined Not Defined
 System Services Registry File System Wired Network (IEEE 802.3) P Windows Firewall with Advanc Network List Manager Policies Wireless Network (IEEE 802.1) Public Key Policies Software Restriction Policies Network Access Protection Application Control Policies IP Security Policies on Active I Advanced Audit Policy Configure 	 Increase scheduling priority Load and unload device drivers Lock pages in memory Log on as a batch job Log on as a service Manage auditing and security log Modify an object label Modify firmware environment values Perform volume maintenance tasks Profile single process Profile system performance Remove computer from docking station Penlace a process level taken 	Not Defined Not Defined

Verifiser at WinRM kjører på domenekontrollere

Logg inn med administrator-konto.

- For å starte WinRM og åpne lokal brannmur, kjør kommandoen winrm quickconfig
 - Om WinRM allerede kjørte, bekreft og gå videre

- For å sette opp transport over HTTP, kjør kommandoen winrm enumerate winrm/config/listener
 - Verifiser at den viser Transport = HTTP
- Kjør winrm get winrm/config/service/Auth
 - Verifiser at Kerberos = True

Sett opp server monitor på brannmur

Konfigurer User-ID

- Verifiser at NTP er konfigurert og fungerer både på domenekontrollere og brannmurer. Korrekt klokke er kritisk for Kerberos.
- Sett opp Kerberos-profiler mot alle domenekontrollere som brukes til autentisering
- Åpne Device > User Identification > User Mapping > Palo Alto Networks User-ID Agent Setup > Server Monitor Account
- Fyll inn brukernavn, domenets DNS-navn (ikke det samme som NETBIOS-navnet), passord og velg Kerberos-profil

Legg til domenekontrollere

Alle domenekontrollere som brukes til autentisering legges inn.

- Type: Active Directory
- Transport Protocol: WinRM-HTTP
- Network Address: <Fully Qualified Domain Name (FQDN)> til domenekontroller

Kjør commit

Referanser

- Create a Dedicated Service Account for the User-ID Agent
- Configure Server Monitoring Using WinRM