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Assignment 1

Part 1

Description

This part will result in creating two VMs, promoting one of the servers to a Directory Controller and creating a domain.

Screenshots

PROPERTIES For 8569394-A1DC			
Computer name	8569394-A1DC	Last installed updates	1/20/2019 9:59 PM
Domain	sbakhtihozin9394-8460A1.corp	Windows Update	Download updates only, using Windows Update
		Last checked for updates	1/20/2019 9:59 PM
Windows Firewall	Private: On	Windows Defender	Real-Time Protection: On
Remote management	Enabled	Feedback & Diagnostics	Settings
Remote Desktop	Enabled	IE Enhanced Security Configuration	On
NIC Teaming	Disabled	Time zone	(UTC-05:00) Eastern Time (US & Canada)
Ethernet0	10.174.1.20, IPv6 enabled	Product ID	00378-00000-00000-AA739 (activated)
Operating system version	Microsoft Windows Server 2016 Standard Evaluation	Processors	Intel(R) Xeon(R) Gold 6152 CPU @ 2.10GHz
Hardware information	VMware, Inc. VMware7,1	Installed memory (RAM)	4 GB
		Total disk space	39.45 GB

Figure 1.DC configuration

PROPERTIES For 8569394-A1MS			
Computer name	8569394-A1MS	Last installed updates	1/20/2019 9:59 PM
Domain	sbakhtihozin9394-8460A1.corp	Windows Update	Download updates only, using Windows Update
		Last checked for updates	Today at 2:16 PM
Windows Firewall	Domain: On	Windows Defender	Real-Time Protection: On
Remote management	Enabled	Feedback & Diagnostics	Settings
Remote Desktop	Enabled	IE Enhanced Security Configuration	On
NIC Teaming	Disabled	Time zone	(UTC-05:00) Eastern Time (US & Canada)
Ethernet0	10.174.1.21, IPv6 enabled	Product ID	00378-00000-00000-AA739 (activated)
Operating system version	Microsoft Windows Server 2016 Standard Evaluation	Processors	Intel(R) Xeon(R) Gold 6152 CPU @ 2.10GHz
Hardware information	VMware, Inc. VMware7,1	Installed memory (RAM)	4 GB
		Total disk space	39.45 GB

Figure 2. MS configuration

Part 2

Description

This part will result in creating required OUs, security groups and users.

Screenshots

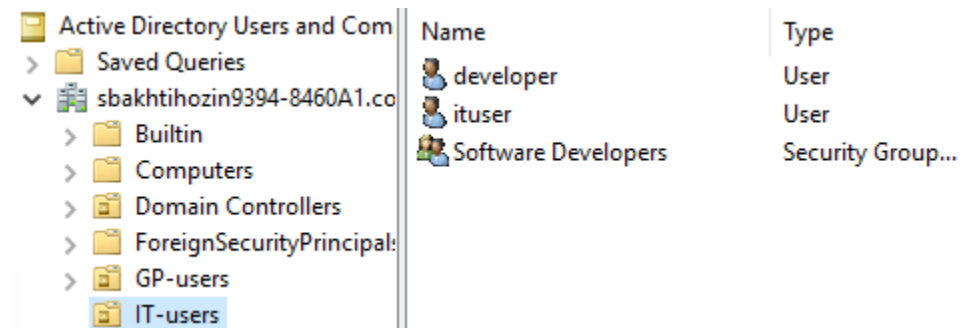


Figure 3. IT-users OU

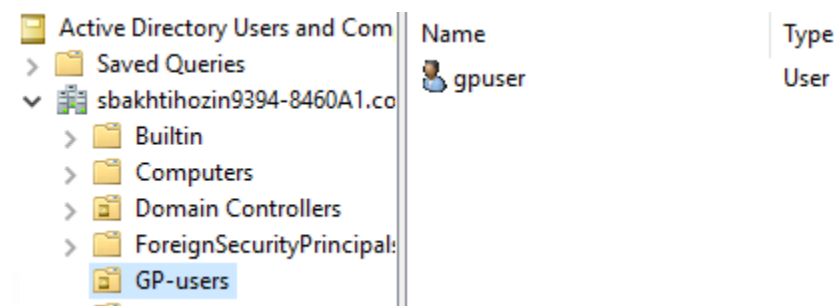


Figure 4. GP-users OU

Discussion

IT users usually require special privileges and permissions so separate IT-users OU was created. Software Developers security group was added to this OU since developers also usually require more permissions than plain users.

Common users have their own GP-users OU.

Part 3

Description

In this part we will create several GPOs and demonstrate their effect in Group Policy Modeling tool.

Screenshots

dev IT-users on IT-users

Summary Details Query

Windows Firewall with Advanced Security		
Global Settings		
Inbound Rules		
Name	Description	Winning GPO
Windows Management Instrumentation (WMI-In)	Inbound rule to allow WMI traffic for remote Windows Management Instrumentation. [TCP]	Default Domain Policy
This rule might contain some elements that cannot be interpreted by the current version of GPMC reporting module		
Enabled	True	
Remote Event Log Management (NP-In)	Inbound rule for the local Event Log service to be remotely managed over Named Pipes.	Default Domain Policy
This rule might contain some elements that cannot be interpreted by the current version of GPMC reporting module		
Enabled	True	
Remote Event Log Management (RPC)	Inbound rule for the local Event Log service to be remotely managed via RPC/TCP.	Default Domain Policy
This rule might contain some elements that cannot be interpreted by the current version of GPMC reporting module		
Enabled	True	
Remote Event Log Management (RPC-EPMAP)	Inbound rule for the RPCSS service to allow RPC/TCP traffic for the local Event Log Service.	Default Domain Policy
This rule might contain some elements that cannot be interpreted by the current version of GPMC reporting module		
Enabled	True	

Figure 5. Firewall configuration

Windows Components/Windows Installer		
Policy	Setting	Winning GPO
Turn off Windows Installer	Enabled	IT-users Workstation Policy
Disable Windows Installer	Never	

Figure 6. IT-users software installation permission

Windows Settings	
Folder Redirection	
Desktop	
Winning GPO	IT-users Policy
Setting: Basic (Redirect everyone's folder to the same location)	
Path: \\8569394-A1MS\redirection\%USERNAME%\Desktop	
Options	
Documents	
Winning GPO	IT-users Policy
Setting: Basic (Redirect everyone's folder to the same location)	
Path: \\8569394-A1MS\redirection\%USERNAME%\Documents	

Figure 7. IT-users folder redirection

Administrative Templates		
Policy definitions (ADMX files) retrieved from the local computer.		
System		
Policy	Setting	Winning GPO
Prevent access to registry editing tools	Enabled	Developers Policy
Disable regedit from running silently?	Yes	

Figure 8. Developers cannot use registry editing tools

Administrative Templates			
Policy definitions (ADMX files) retrieved from the local computer.			
System			
Policy	Setting	Winning GPO	
Prevent access to registry editing tools	Disabled	IT-users Policy	

Figure 9. IT-users have permission to edit registry

Administrative Templates			
Policy definitions (ADMX files) retrieved from the local computer.			
System			
Policy	Setting	Winning GPO	
Prevent access to registry editing tools	Enabled	Domain User Policy	
Disable regedit from running silently?	Yes		

Figure 10. GP-users cannot edit registry

Windows Settings	
Folder Redirection	
Desktop	
Winning GPO	GP-users Policy
Setting: Basic (Redirect everyone's folder to the same location)	
Path: \\8569394-A1MS\redirection\%USERNAME%\Desktop	
Options	
Documents	
Winning GPO	GP-users Policy
Setting: Basic (Redirect everyone's folder to the same location)	
Path: \\8569394-A1MS\redirection\%USERNAME%\Documents	
Options	

Figure 11. GP-users folder redirection

Administrative Templates			
Policy definitions (ADMX files) retrieved from the local computer.			
Windows Components/Windows Installer			
Policy	Setting	Winning GPO	
Turn off Windows Installer	Enabled	Default Domain Policy	
Disable Windows Installer	Always		

Figure 12. GP-users cannot install software

IT-users					
Linked Group Policy Objects Group Policy Inheritance Delegation					
This list does not include any GPOs linked to sites. For more details, see Help.					
Precedence	GPO	Location	GPO Status	WMI Filter	
1	Developers Policy	IT-users	Computer configuration settings disabled	None	
2	IT-users Policy	IT-users	Computer configuration settings disabled	None	
3	IT-users Workstatio...	IT-users	User configuration settings disabled	None	
4	Default Domain Policy	sbakhtihozin9394...	User configuration settings disabled	None	
5	Domain User Policy	sbakhtihozin9394...	Computer configuration settings disabled	None	

Figure 13. IT-users policy load order
Assignment, INF08460

GP-users

Linked Group Policy Objects

Group Policy Inheritance

Delegation

This list does not include any GPOs linked to sites. For more details, see Help.




Precedence	GPO	Location	GPO Status	WMI Filter
 1	GP-users Policy	GP-users	Enabled	None
 2	Default Domain Policy	sbakhtihozin9394...	User configuration settings disabled	None
 3	Domain User Policy	sbakhtihozin9394...	Computer configuration settings disabled	None

Figure 14. GP-users policy load order

Discussion

Default Domain Policy has User Configurations disabled. It contains Firewall configurations and disables Windows Installer. Domain User Policy has Computer Configurations disabled. It turns off registry editing tools. Both mentioned GPOs are linked to the whole domain.

GP-users Policy configures folder redirection. It is linked to GP-users OU.

IT-users Policy configures folder redirection and turns on Windows Installer. IT-users Workstation Policy enables registry editing tools. Both IT-users policies are linked to IT-users OU however first one has only User configurations and second one only Computer configurations.

Developers Policy disables registry editing tools. Last GPO is linked to IT-users OU but only applied to Software Developers security group. In the future other configurations can be added to this GPO.

References

Morimoto, R., Shapirro, J., Yardeni, G., Droubi, O., Noel, M., Abbate, A. & Amaris, C. (2017). *Windows Server 2016 Unleashed*. USA: Pearson Education

Retrieved Feb 18, 2019, from <https://medium.com/tech-jobs-academy/configuring-folder-redirection-through-group-policy-b38d1faeb833>