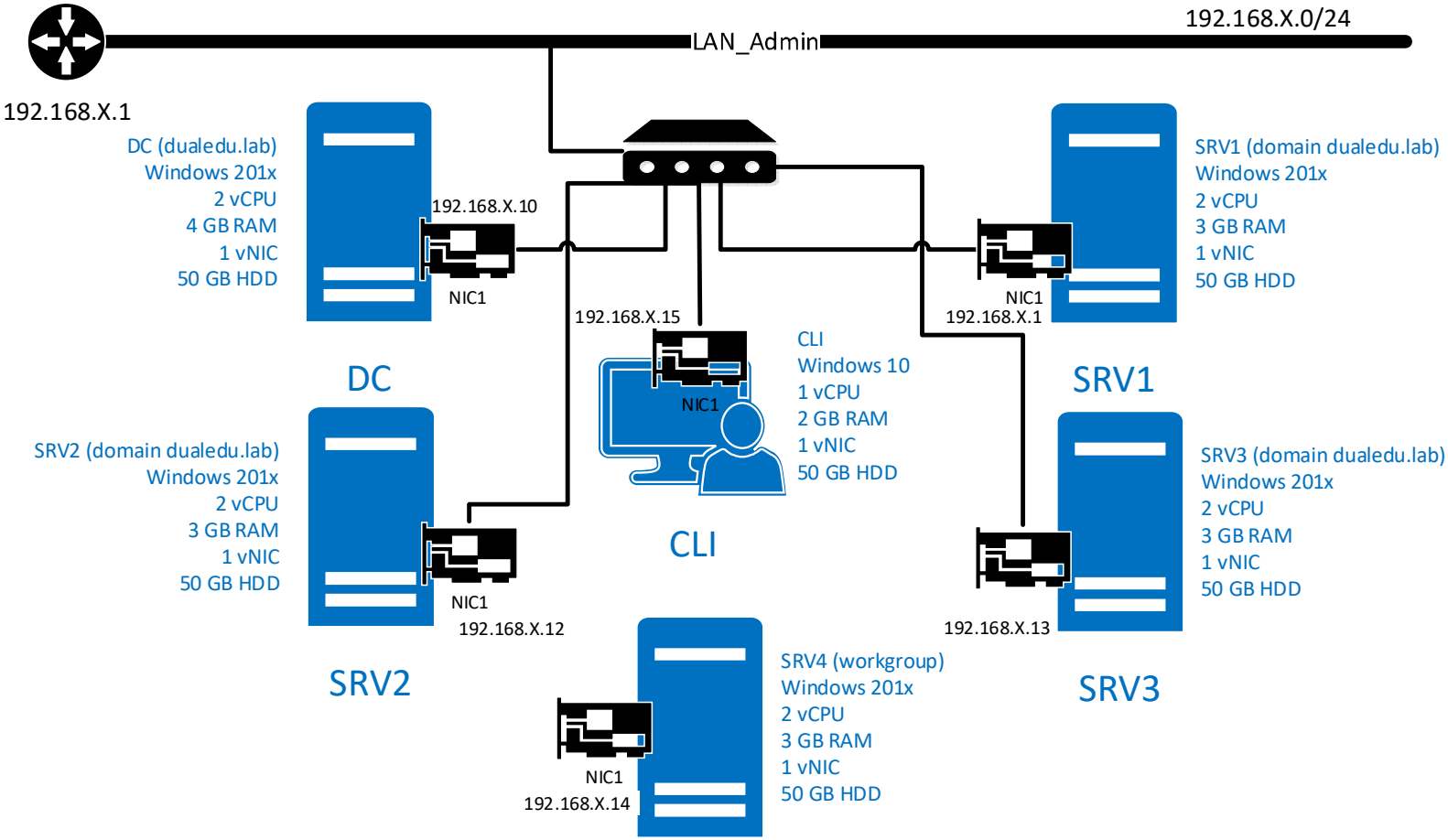
Úvodná konfigurácia LAB-u

Špecializované IKT systémy Windows

Ing. Stanislav Lukac, PhD.

Initial LAB setup



Po ukončení konfigurácie na každej VM vytvoriť SNAPSHOT !

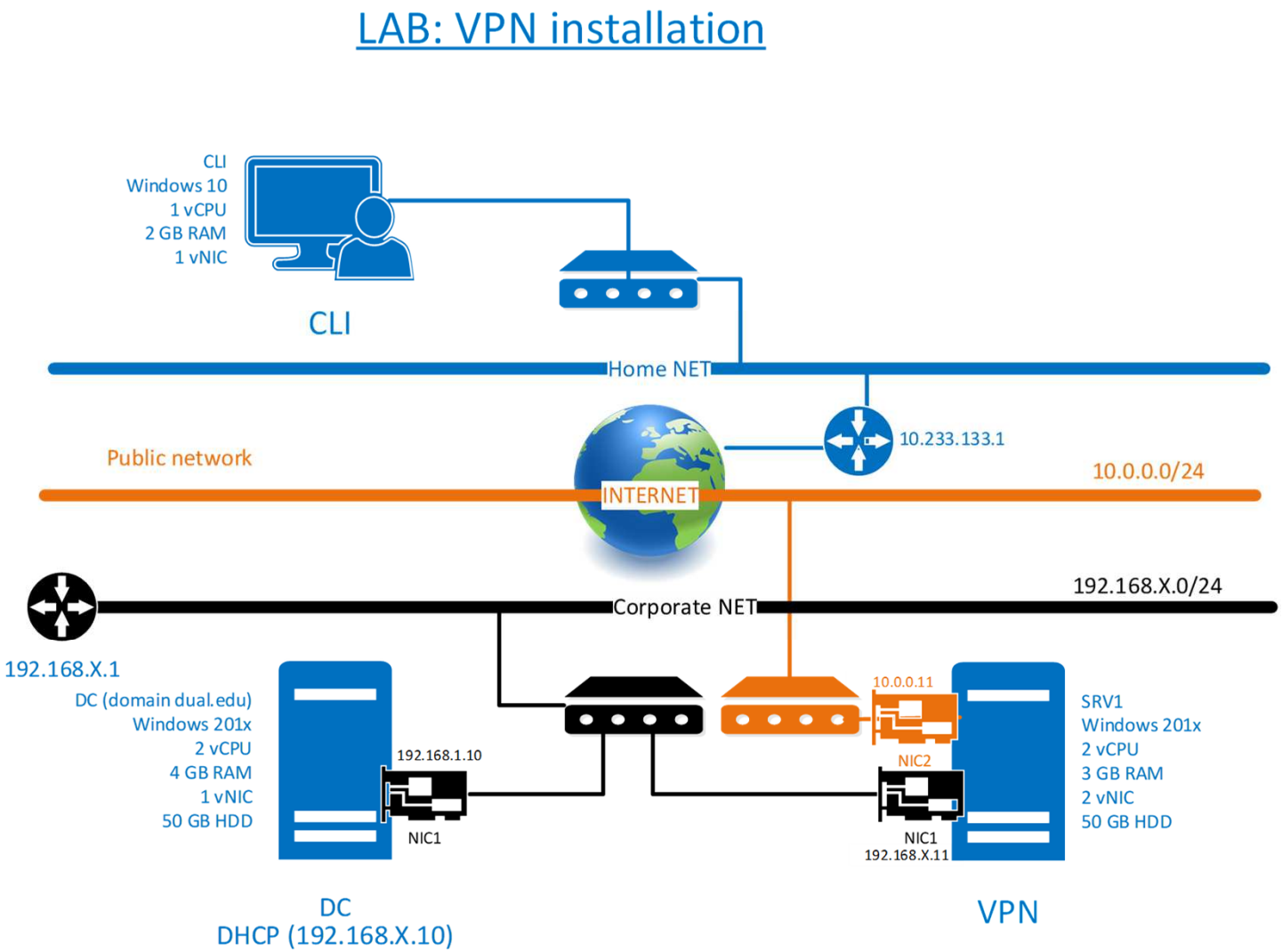
VPN inštalácia

Špecializované IKT systémy Windows

Ing. Stanislav Lukac, PhD.

Krok 1

::Inštalácia 3 VMs podľa schémy



Krok 2

::Premenovanie vNICs na SRV1 (VPN serveri)

```
PS C:\Users\Administrator> Get-NetAdapter

Name                      InterfaceDescription                    ifIndex Status       MacAddress             LinkSpeed
----                      --------------------                    ------- ------       ----------             ---------
Ethernet 6                Microsoft Hyper-V Network Adapter #6          8 Up           00-15-5D-9F-8A-0C       10 Gbps
Ethernet 5                Microsoft Hyper-V Network Adapter #5          9 Up           02-BF-0A-00-00-64       10 Gbps


PS C:\Users\Administrator> Rename-NetAdapter -Name 'Ethernet 6' -NewName NIC_External
PS C:\Users\Administrator> Rename-NetAdapter -Name 'Ethernet 5' -NewName NIC_Internal
PS C:\Users\Administrator> Get-NetAdapter

Name                      InterfaceDescription                    ifIndex Status       MacAddress             LinkSpeed
----                      --------------------                    ------- ------       ----------             ---------
NIC_External              Microsoft Hyper-V Network Adapter #6          8 Up           00-15-5D-9F-8A-0C       10 Gbps
NIC_Internal              Microsoft Hyper-V Network Adapter #5          9 Up           02-BF-0A-00-00-64       10 Gbps
```

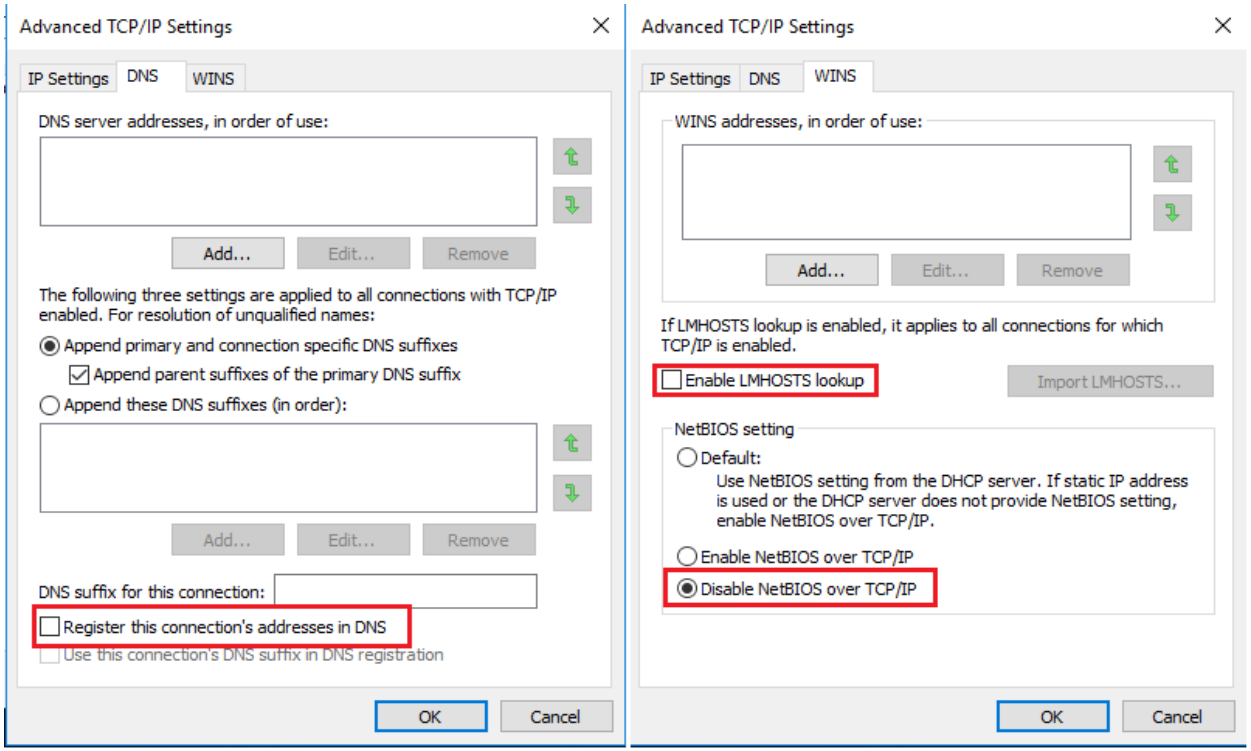
Krok 3

::Overenie sieťovej konfigurácie na SRV1 (VPN server)

	Network	GW	DNS	IPv6
NIC_Internal	192.168.X.0/24	none	10.0.0.10	Enabled
NIC_External	10.0.0.0/24 VLAN 5	10.233.133.1	none	Enabled

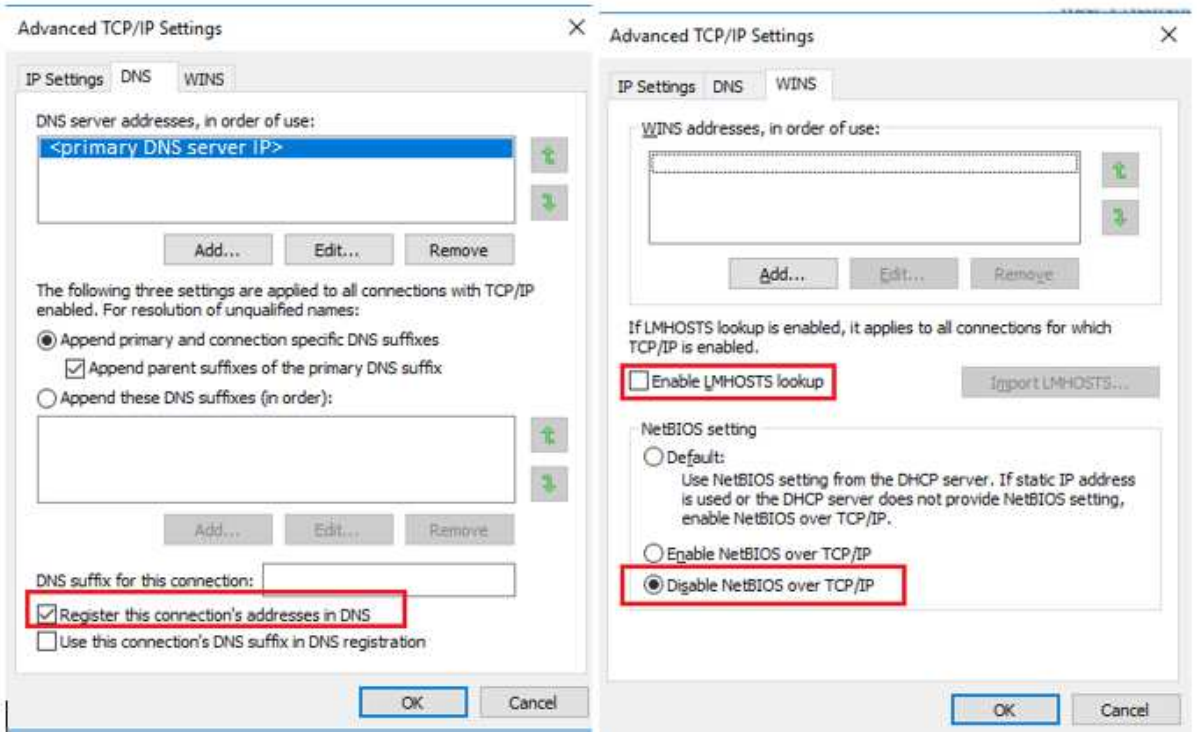
Krok 4

::Vypnutie registrácie DNS a NetBios na Externom NIC SRV1



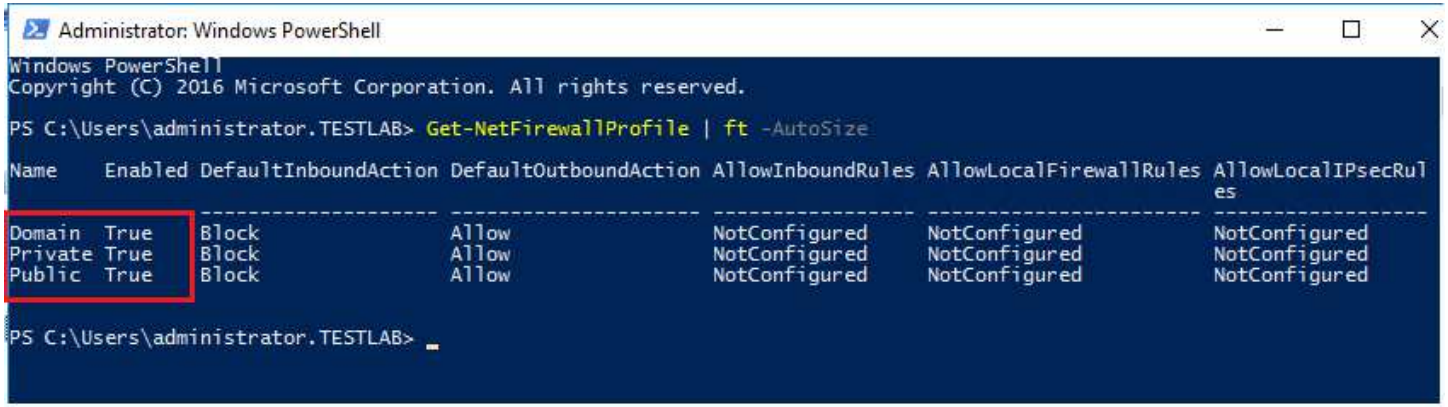
Krok 5

::Zapnutie registrácie DNS a NetBios na INTERNOM NIC SRV1



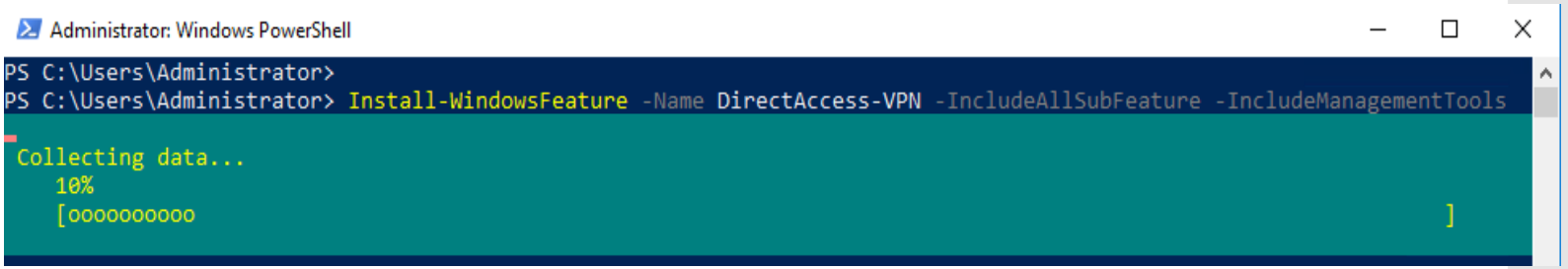
Krok 6

::Zapnutie FW na všetkých FW profiloch SRV1



Krok 7

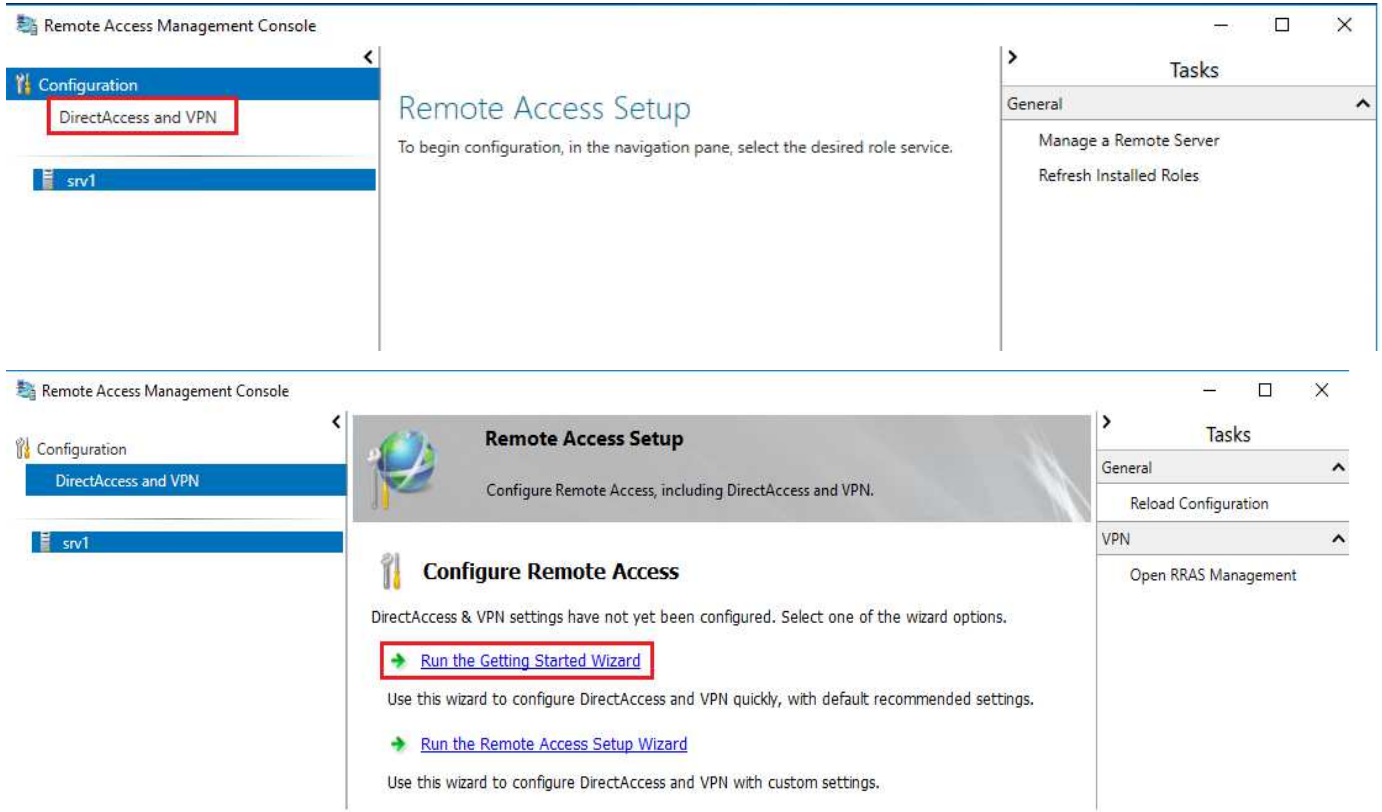
::Inštalácia role



Krok 8

::Konfigurácia role VPN

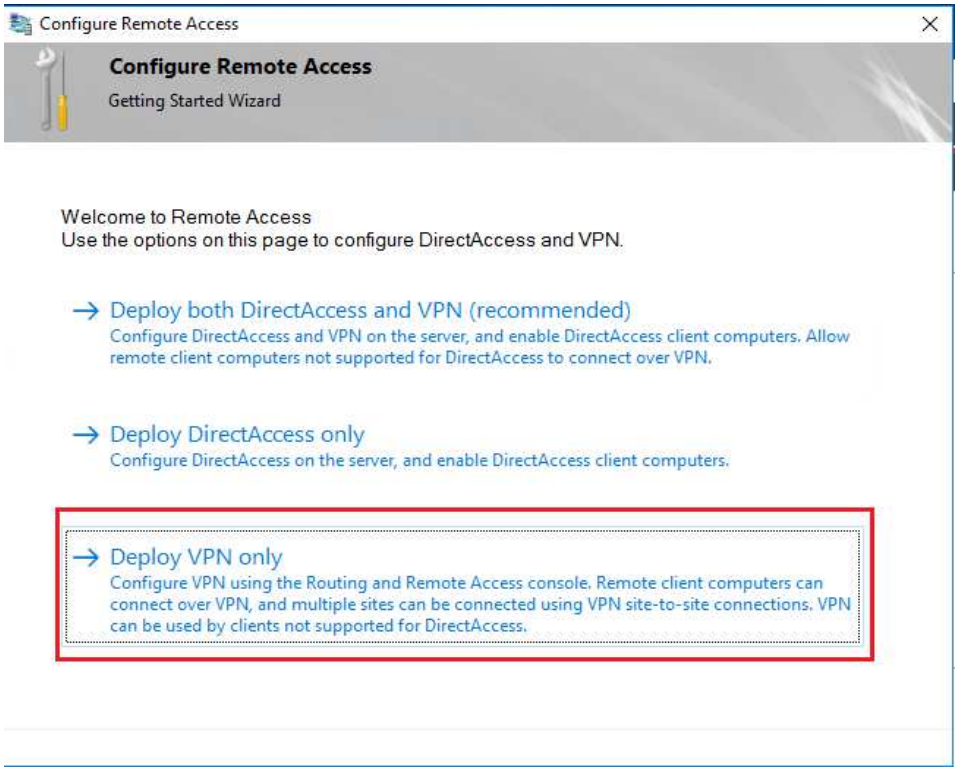
Administrative tools -> Remote Access Management console



Krok 8

::Konfigurácia role VPN

Administrative tools -> Remote Access Management console



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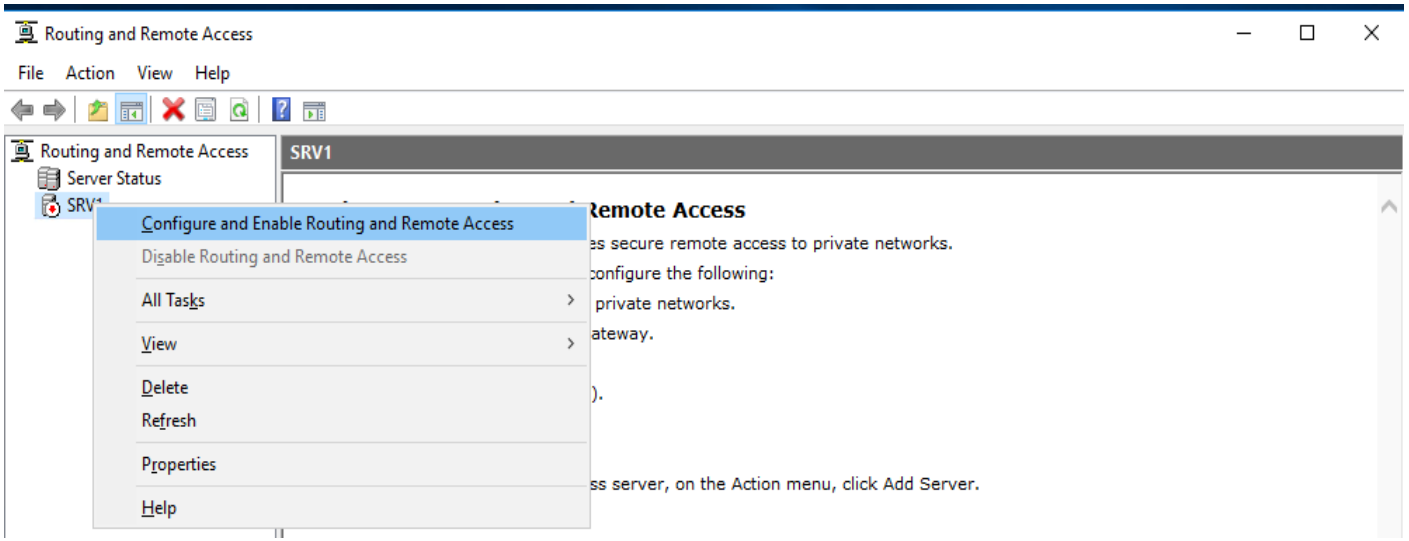
::Konfigurácia role VPN

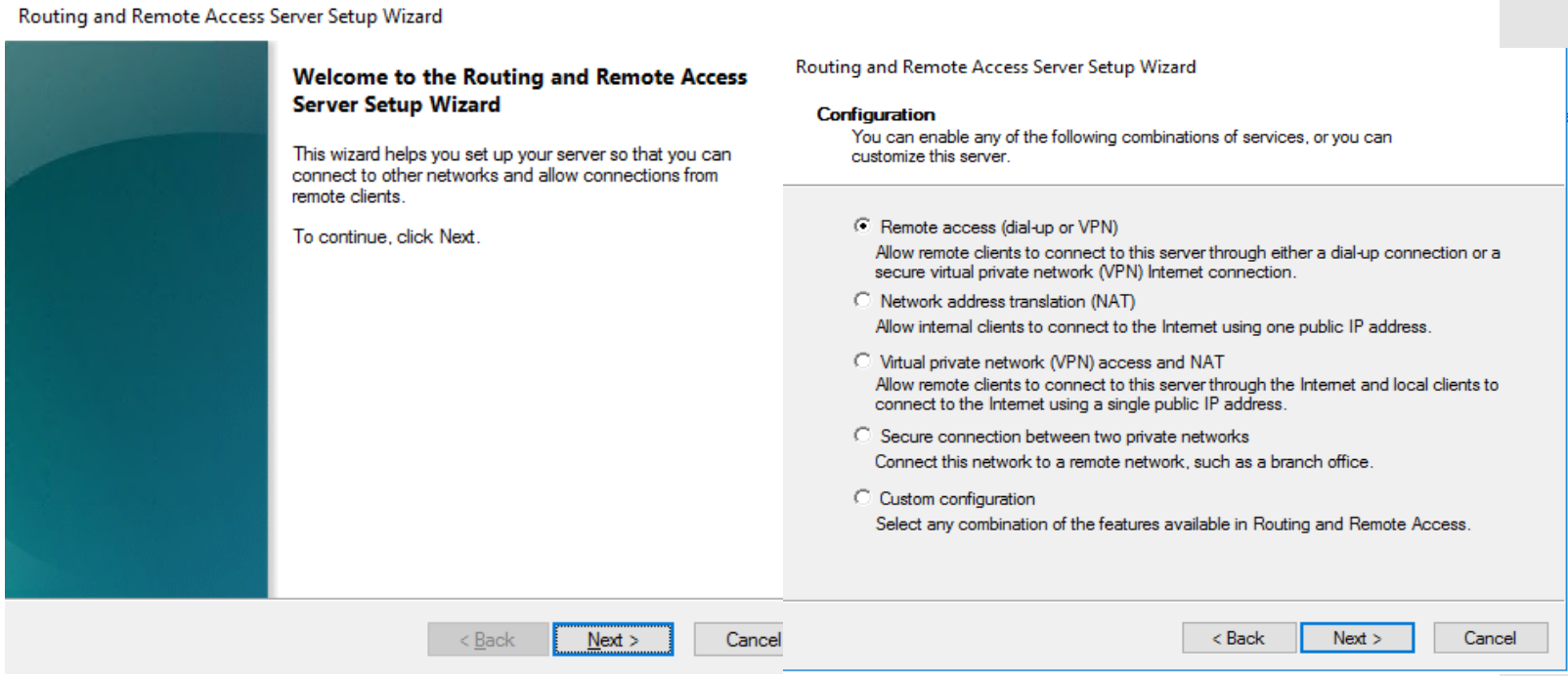
Administrative tools -> Remote Access Management console



Krok 8

::Konfigurácia role VPN

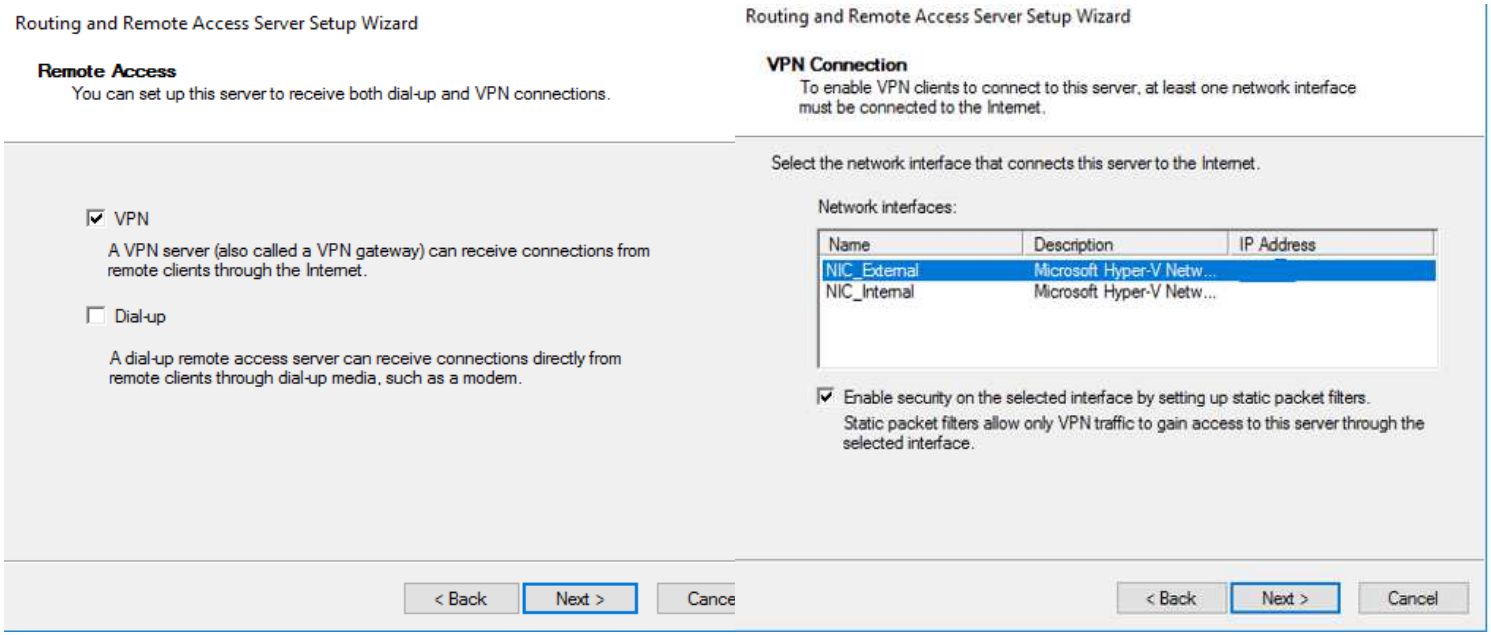
Administrative tools -> Remote Access Management console



Krok 8

::Konfigurácia role VPN

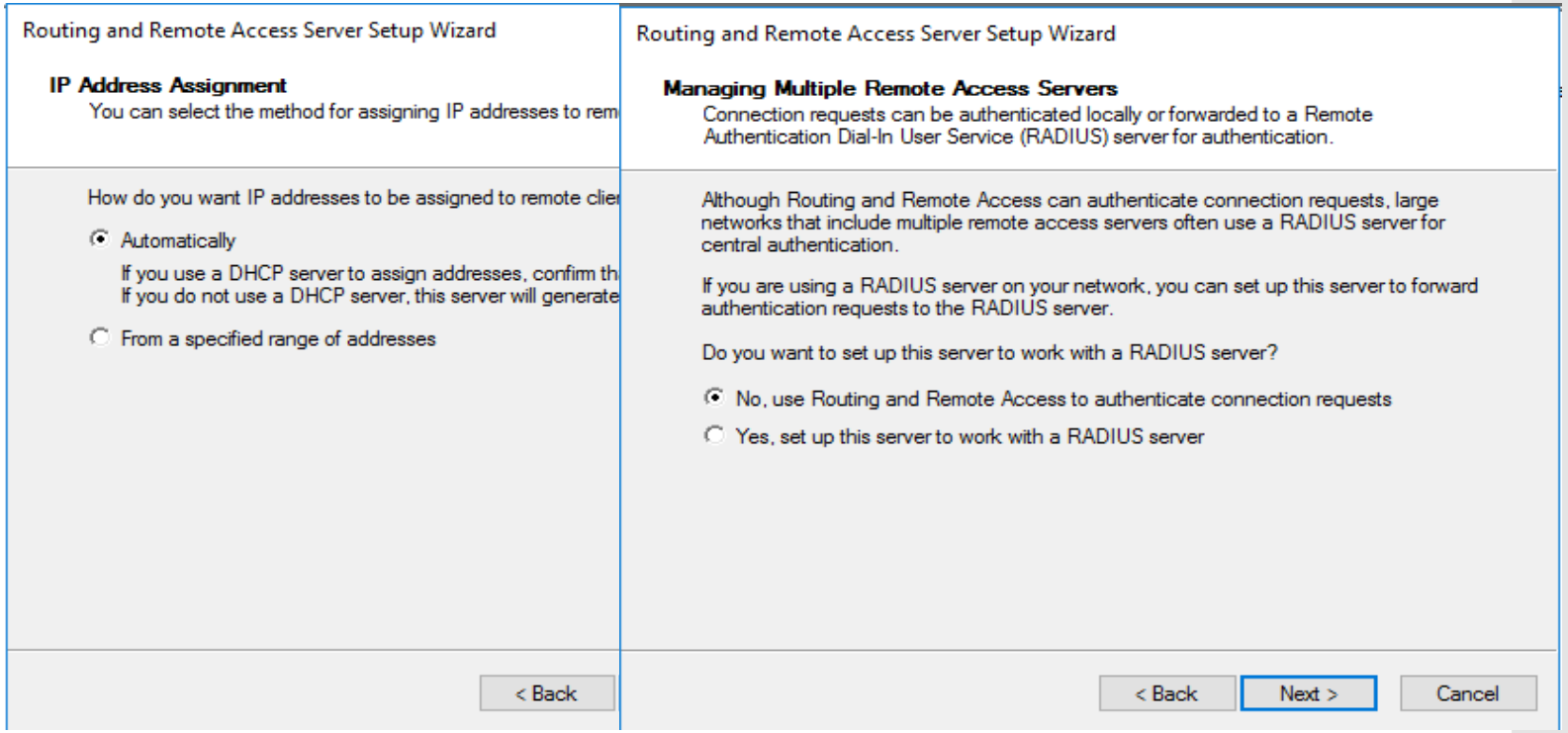
Administrative tools -> Remote Access Management console



Krok 8

::Konfigurácia role VPN

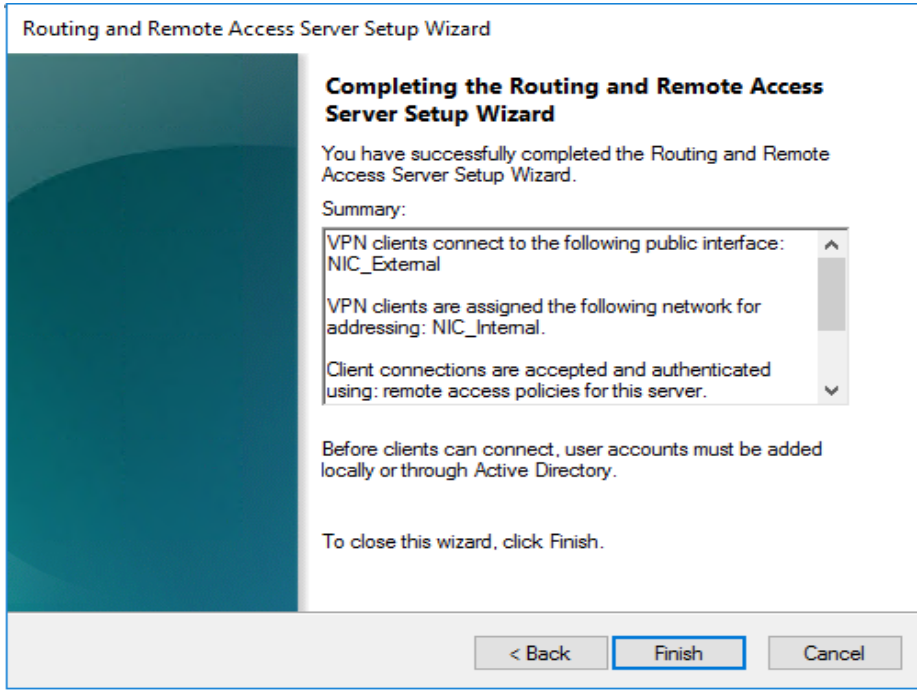
Administrative tools -> Remote Access Management console



Krok 8

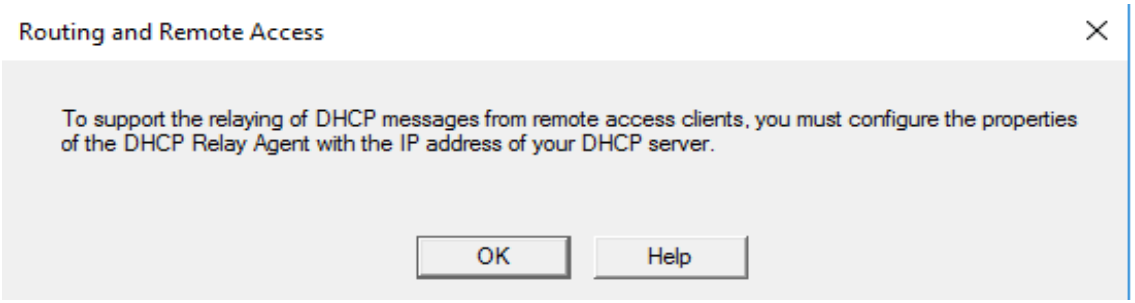
::Konfigurácia role VPN

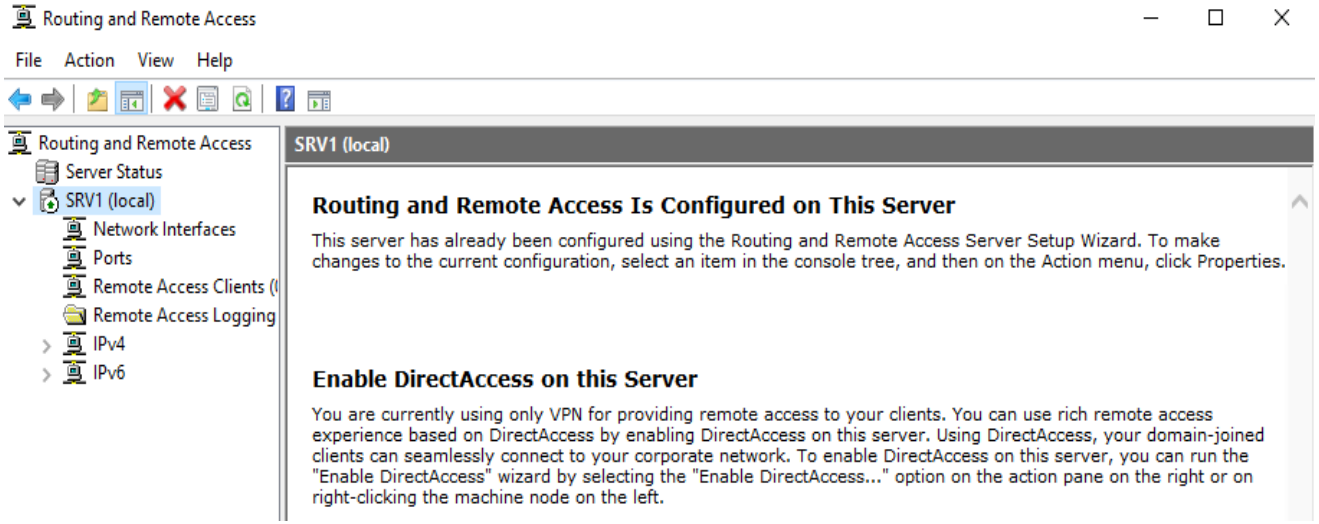
Administrative tools -> Remote Access Management console



Krok 8

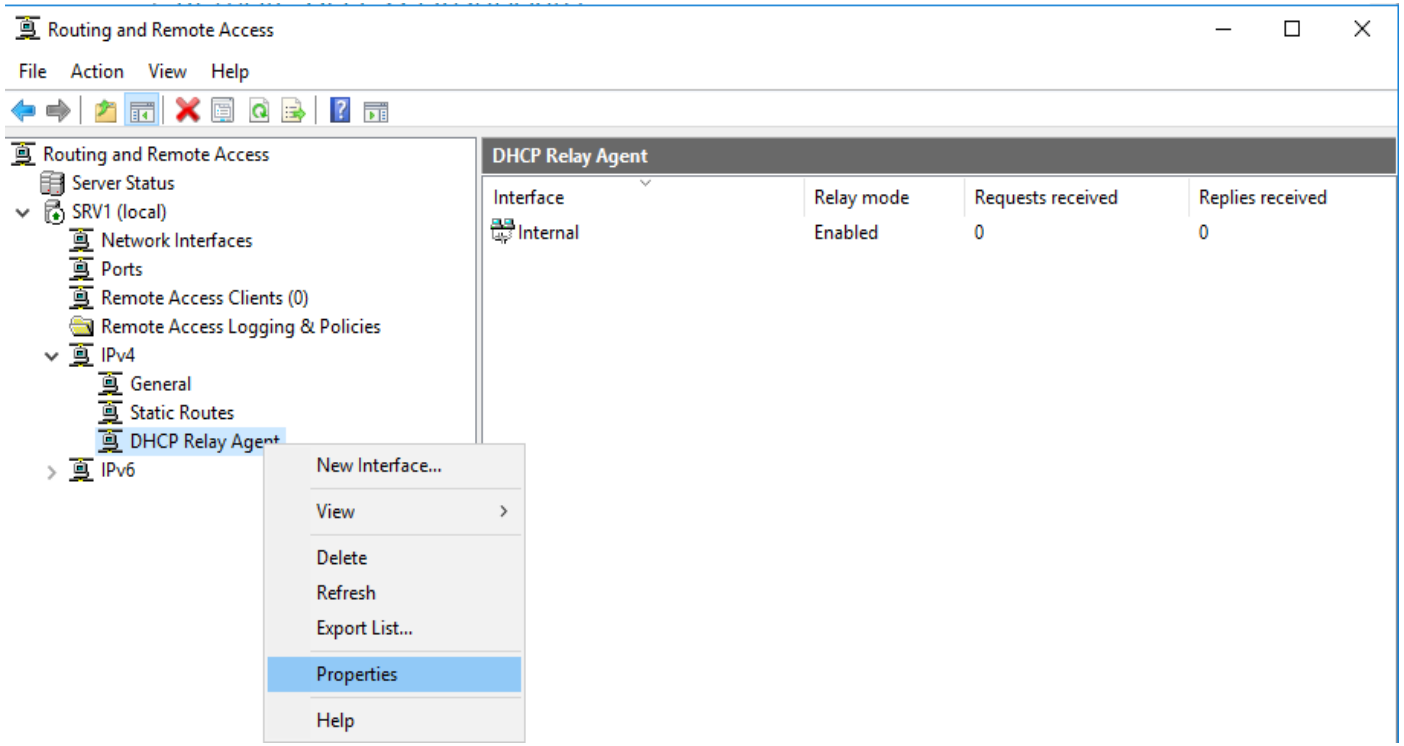
::Konfigurácia role VPN





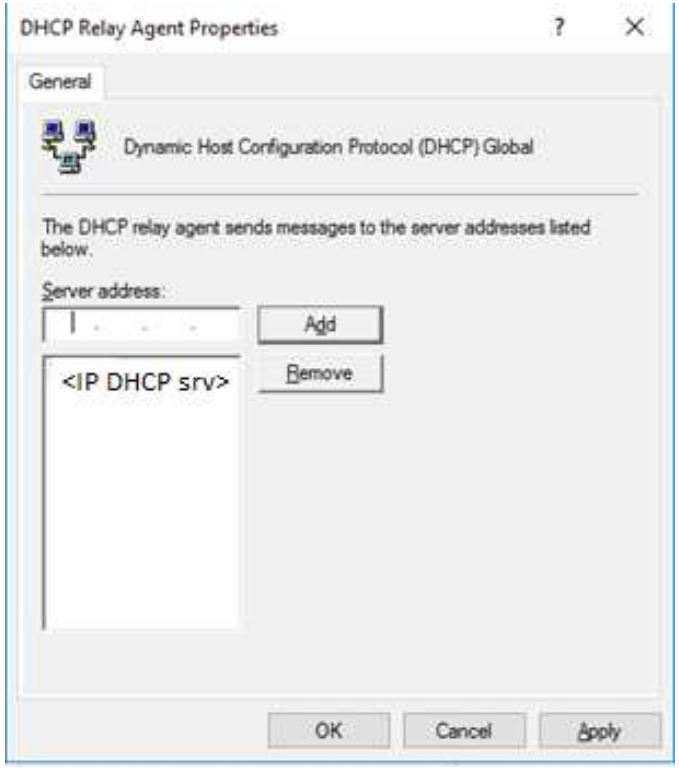
Krok 8

::Konfigurácia role VPN



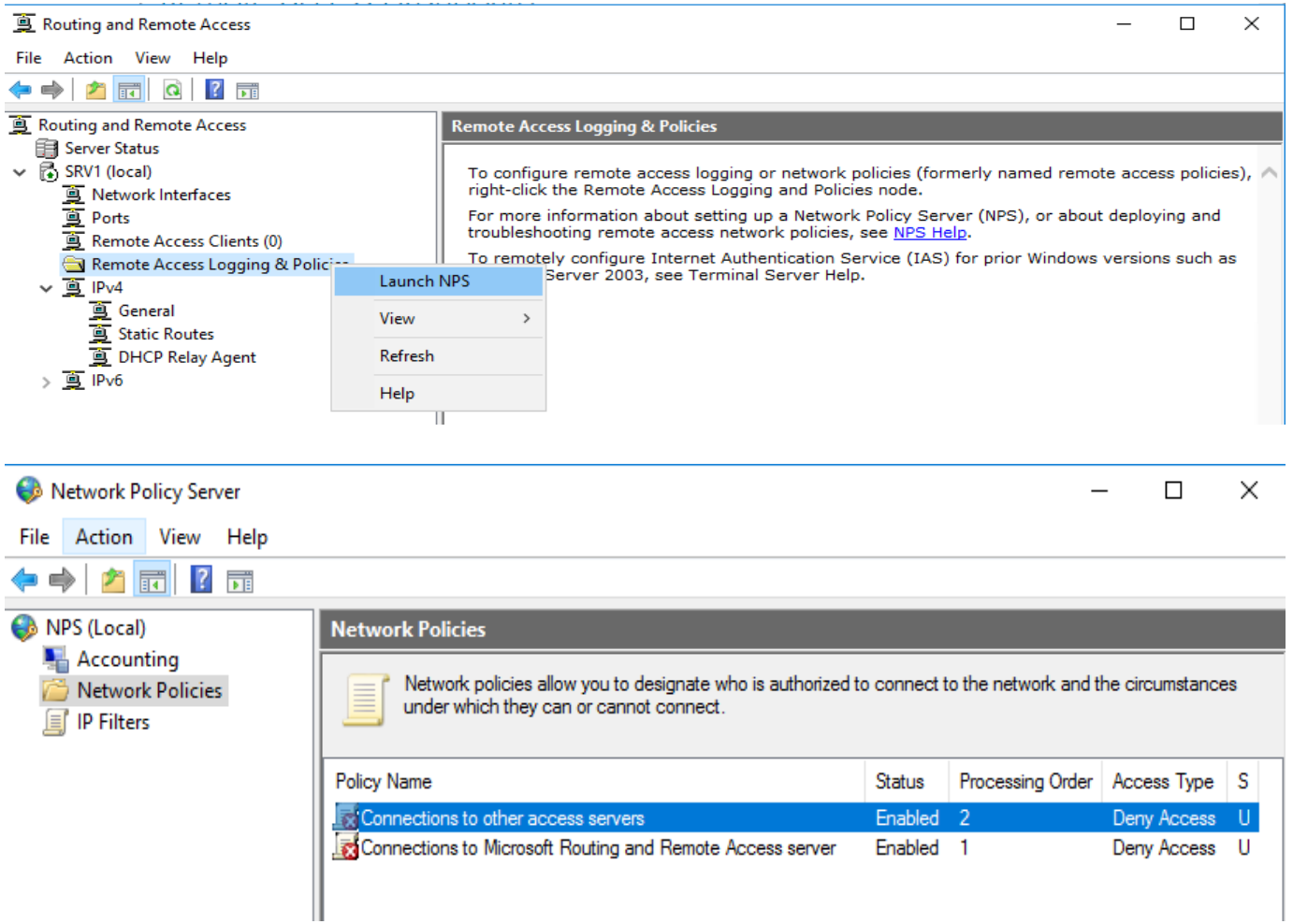
Krok 8

::Konfigurácia role VPN



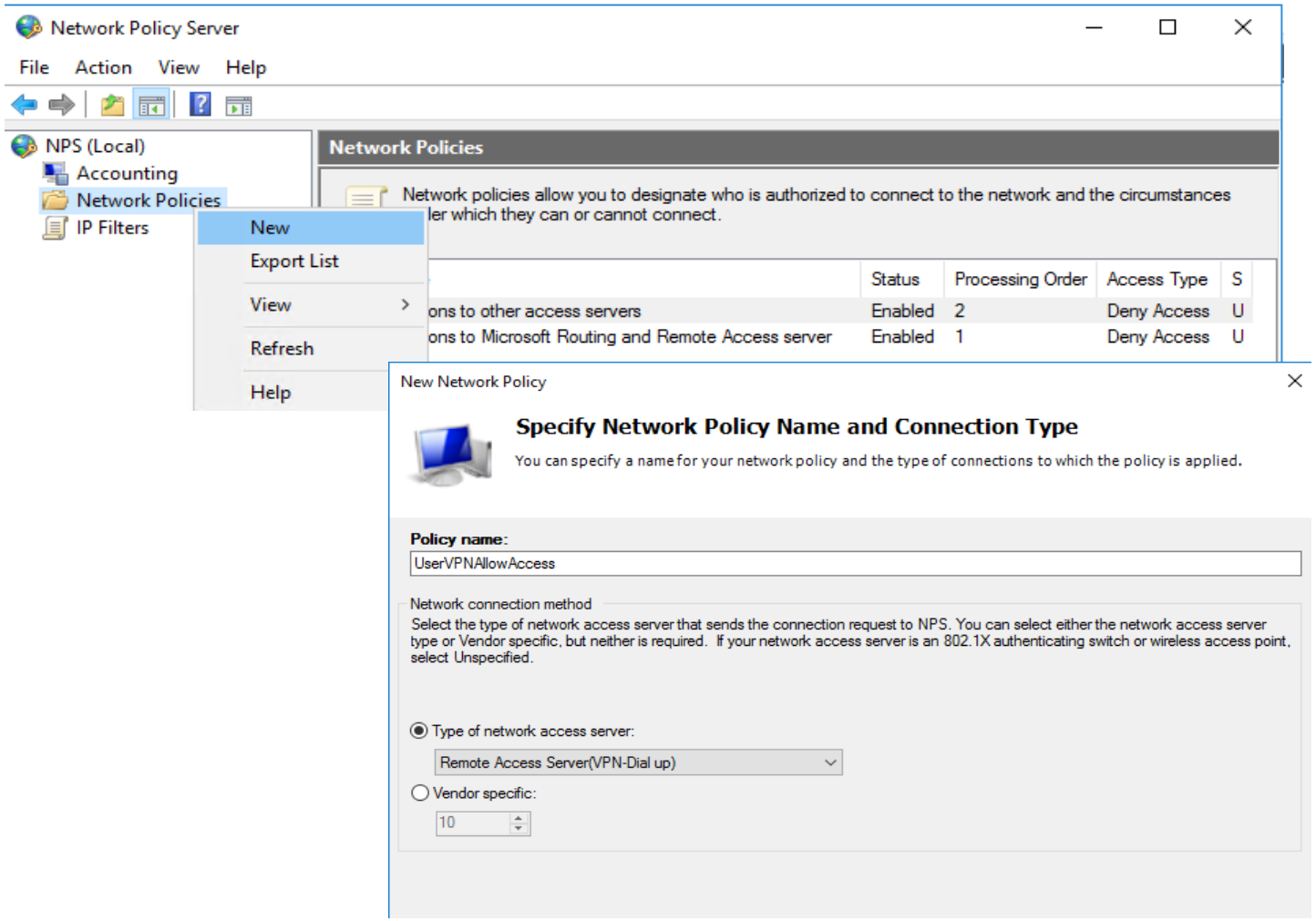
Krok 9

::Konfigurácia Access Policy cez NPS



Krok 9

::Konfigurácia Access Policy cez NPS



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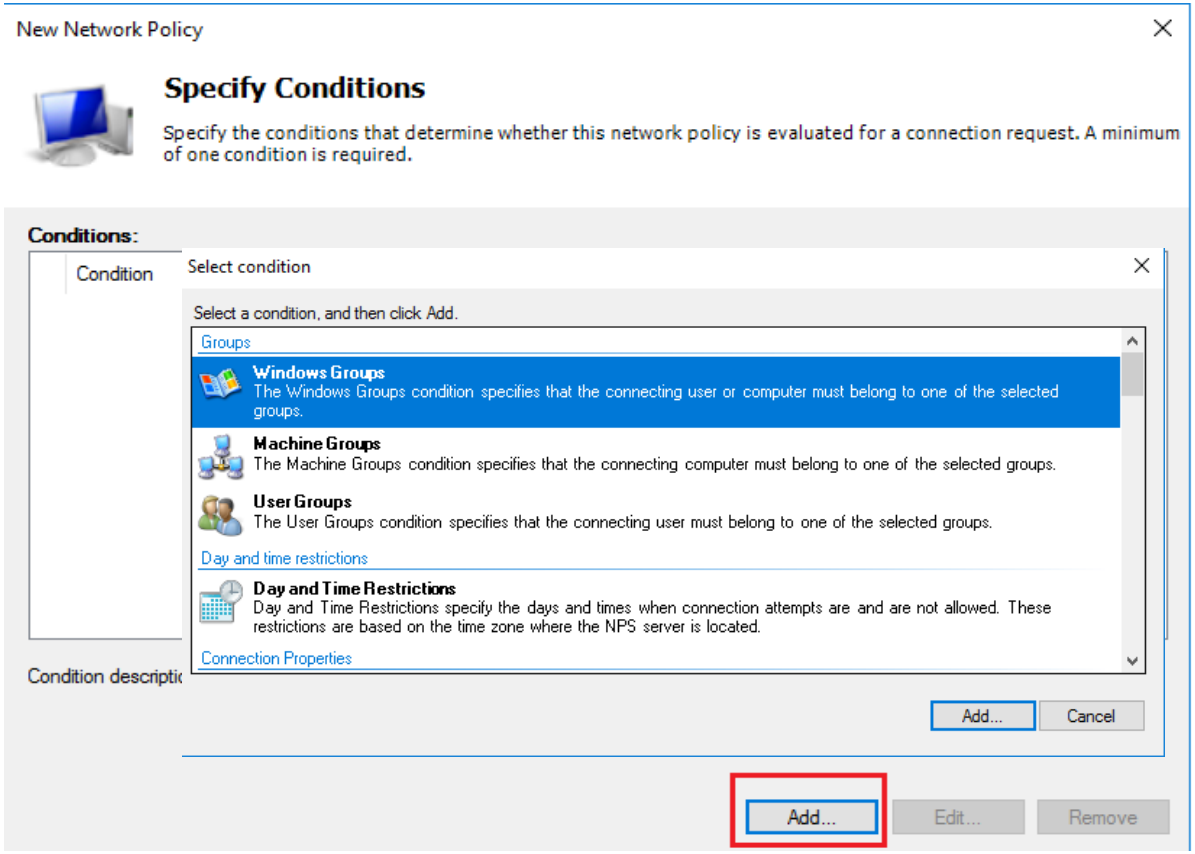

Krok 9

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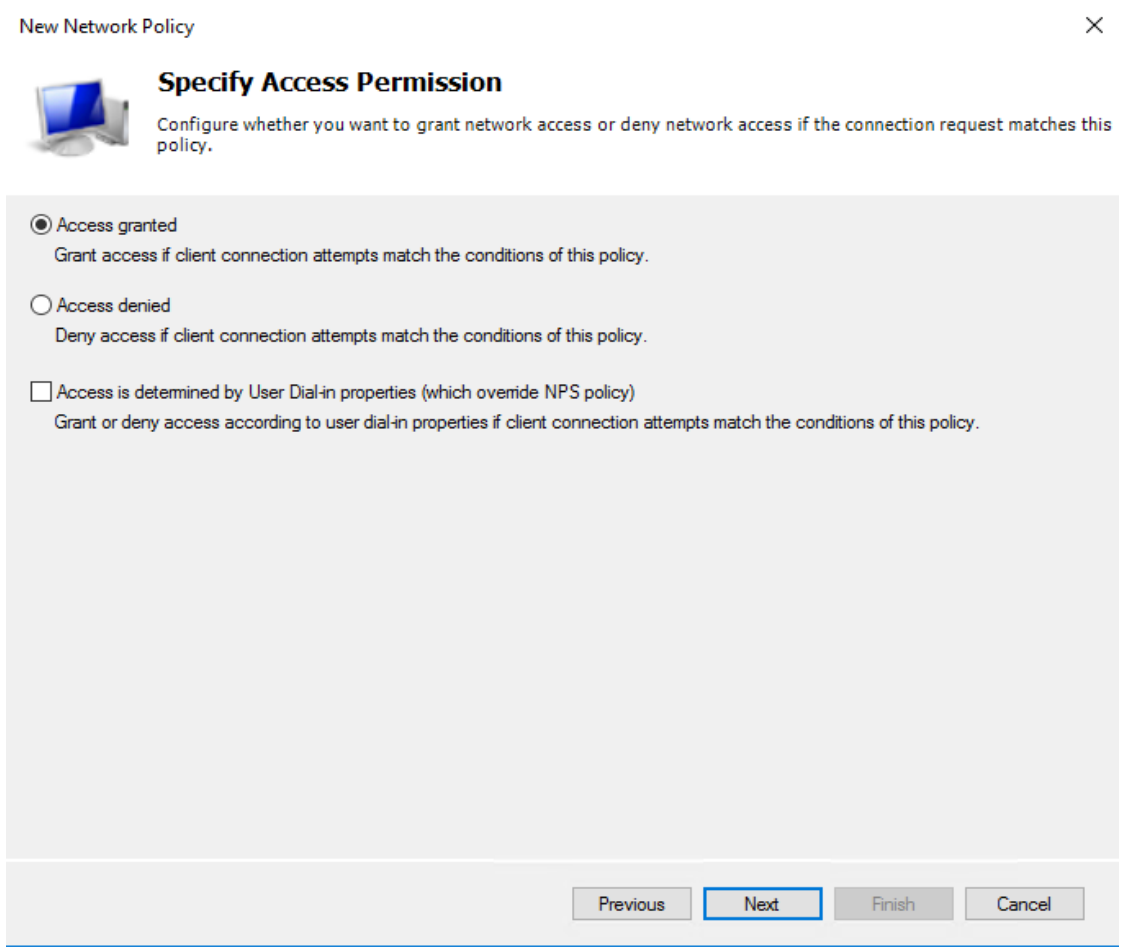

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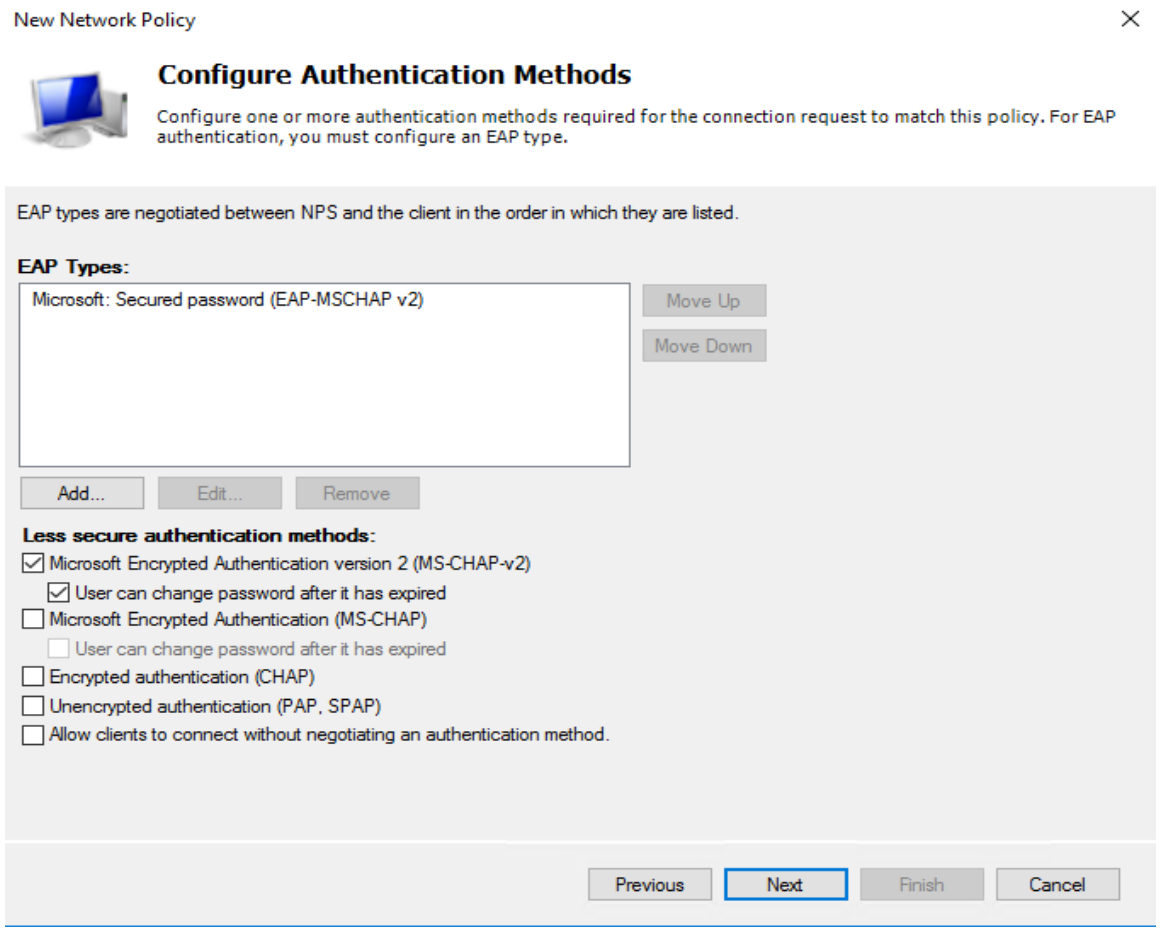
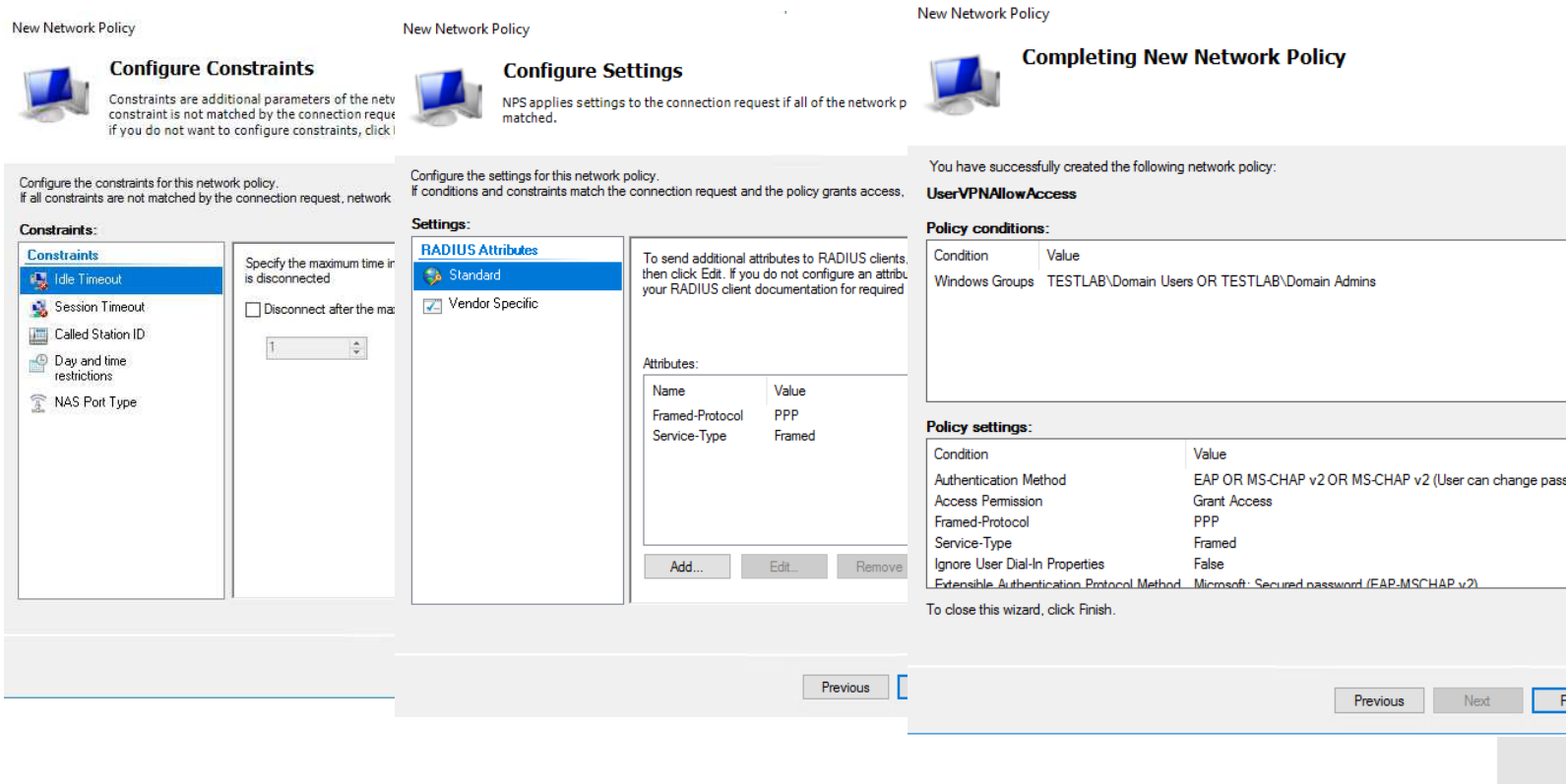


Krok 9

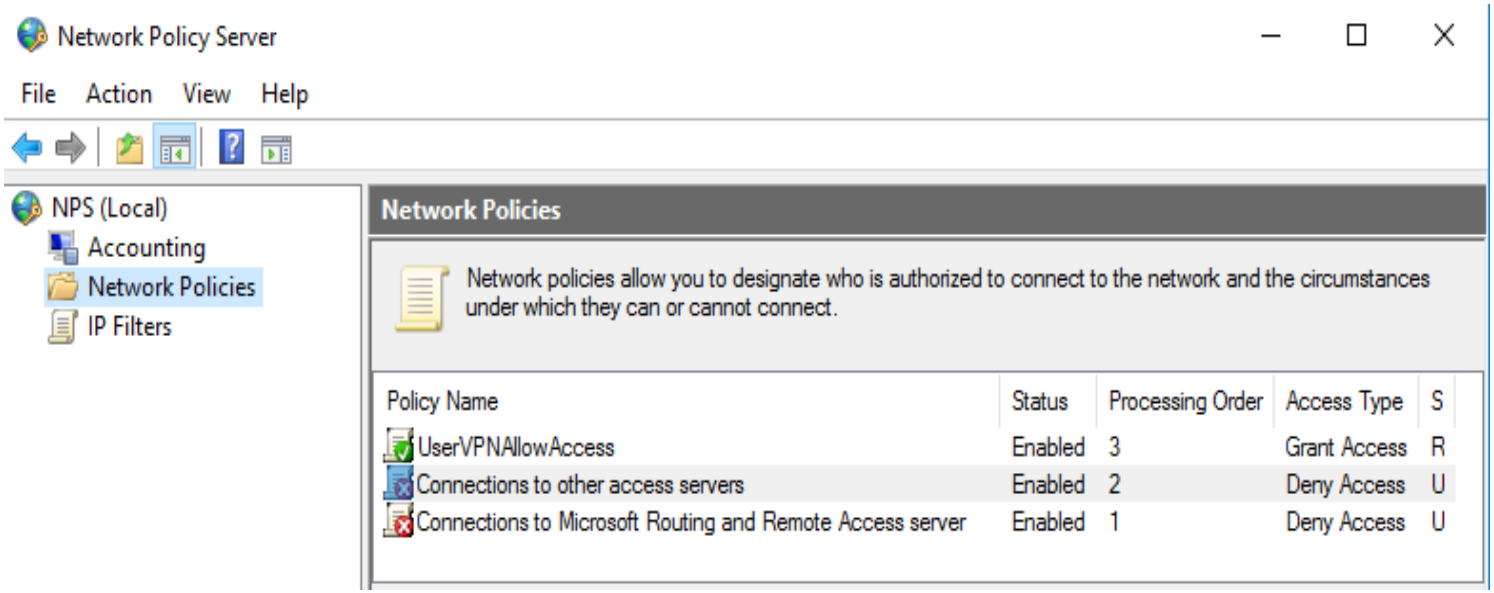
::Konfigurácia Access Policy cez NPS

Všetky ďalšie nastavenie nechajte default



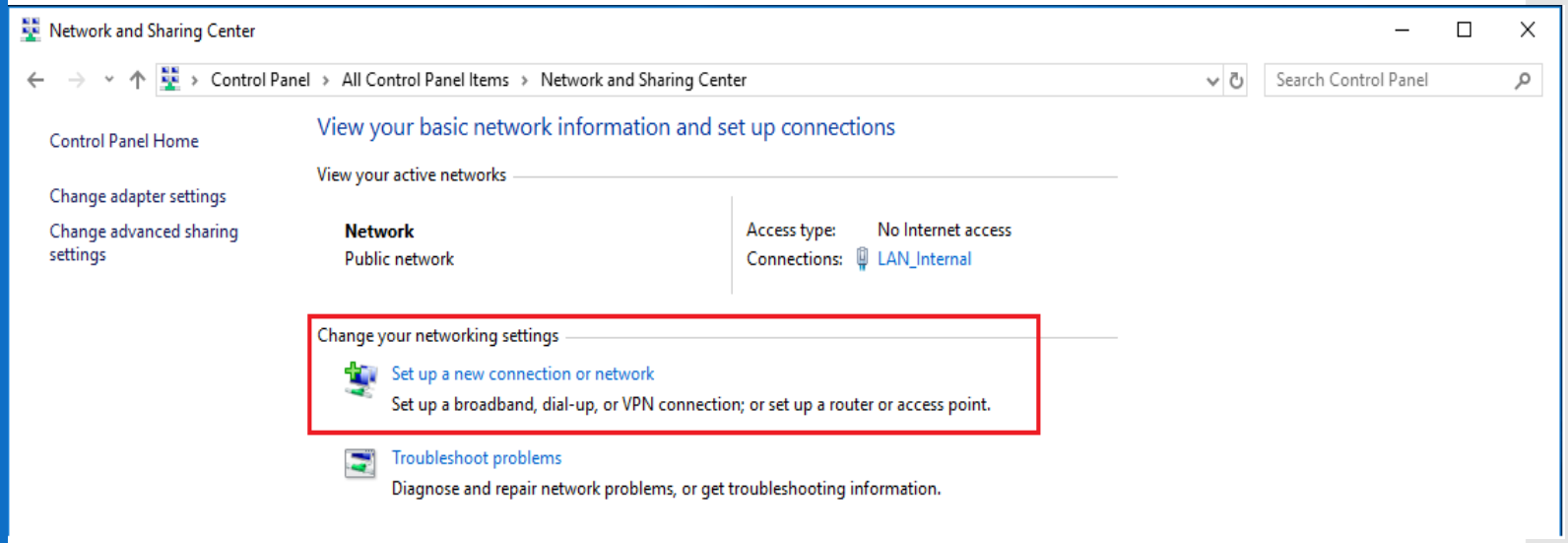
Krok 9

::Konfigurácia Access Policy cez NPS



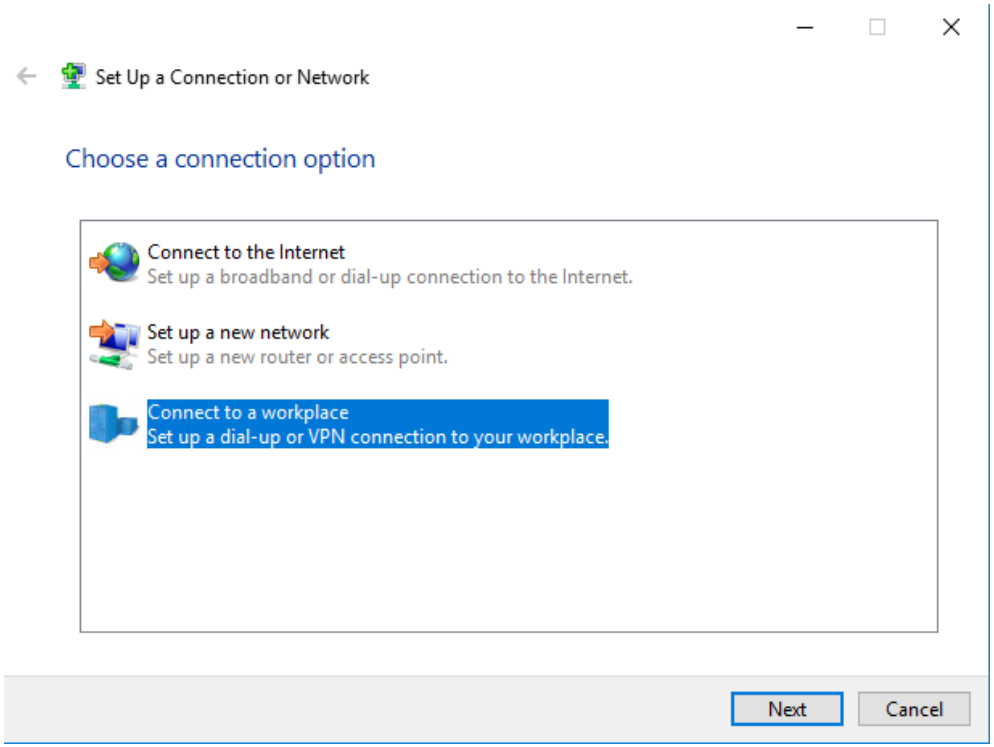
Krok 10

::Klient nastavenie (CLI vm)



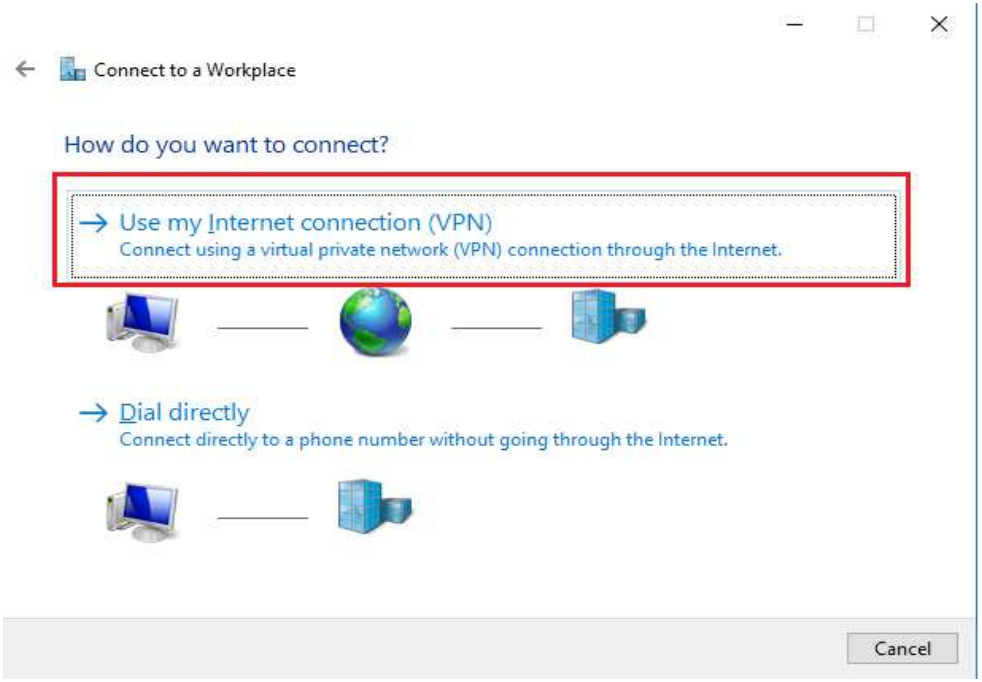
Krok 10

::Klient nastavenie (CLI vm)



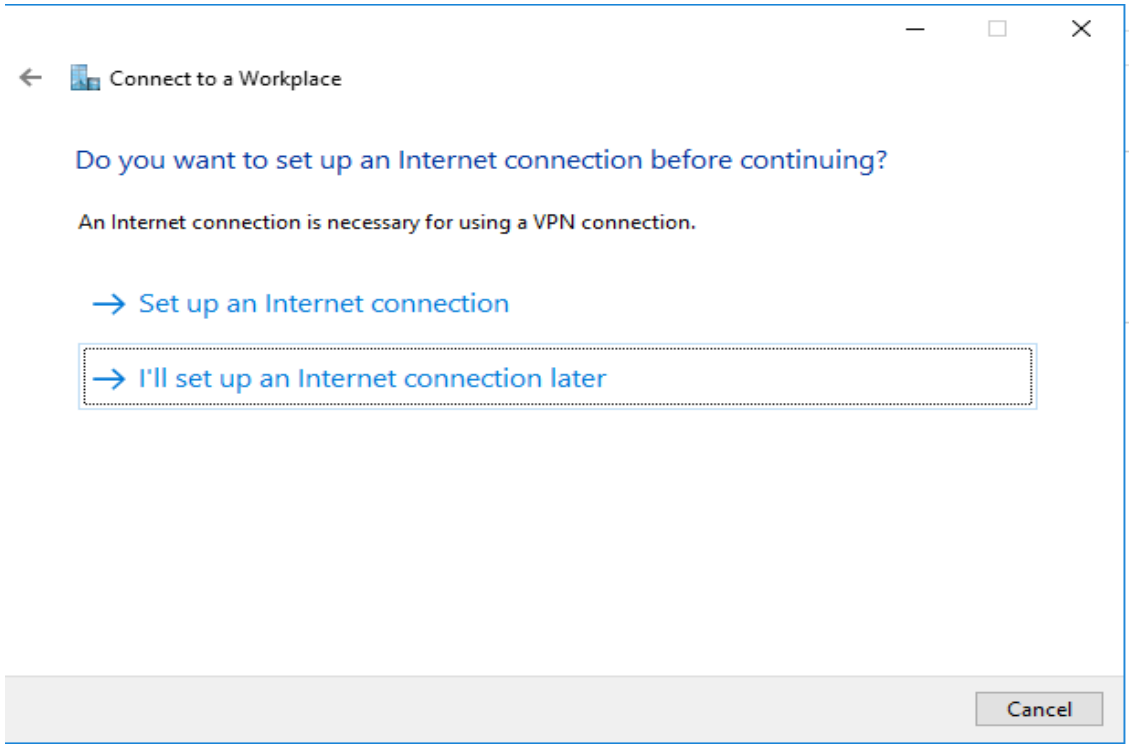
Krok 10

::Klient nastavenie (CLI vm)



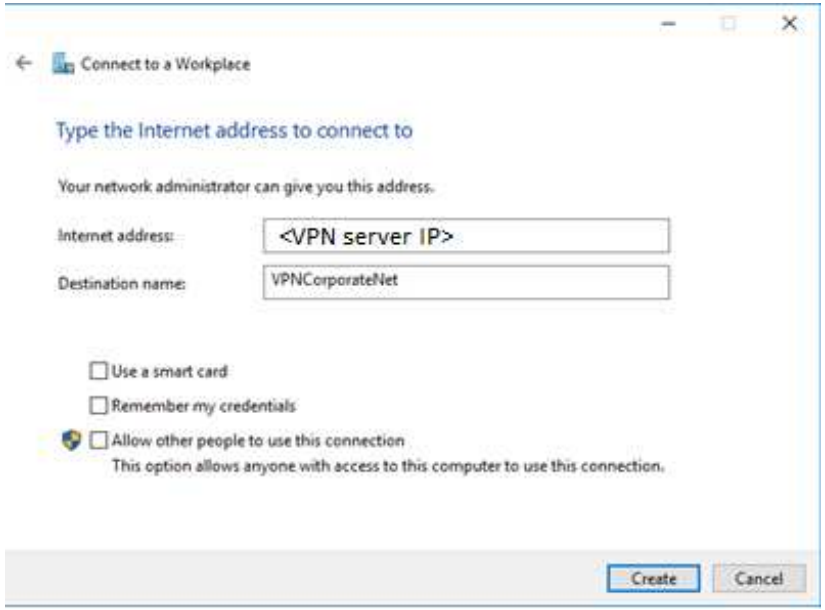
Krok 10

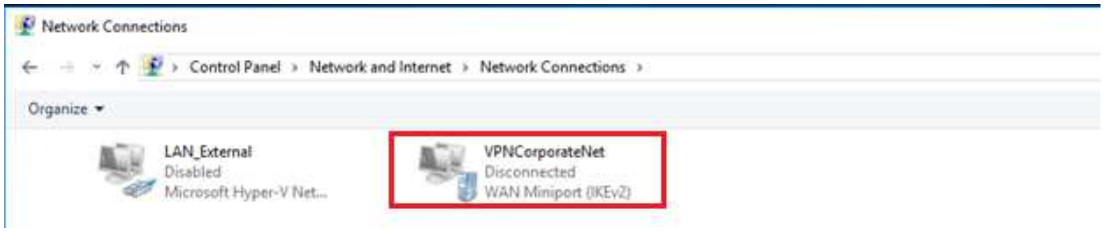
::Klient nastavenie (CLI vm)



Krok 10

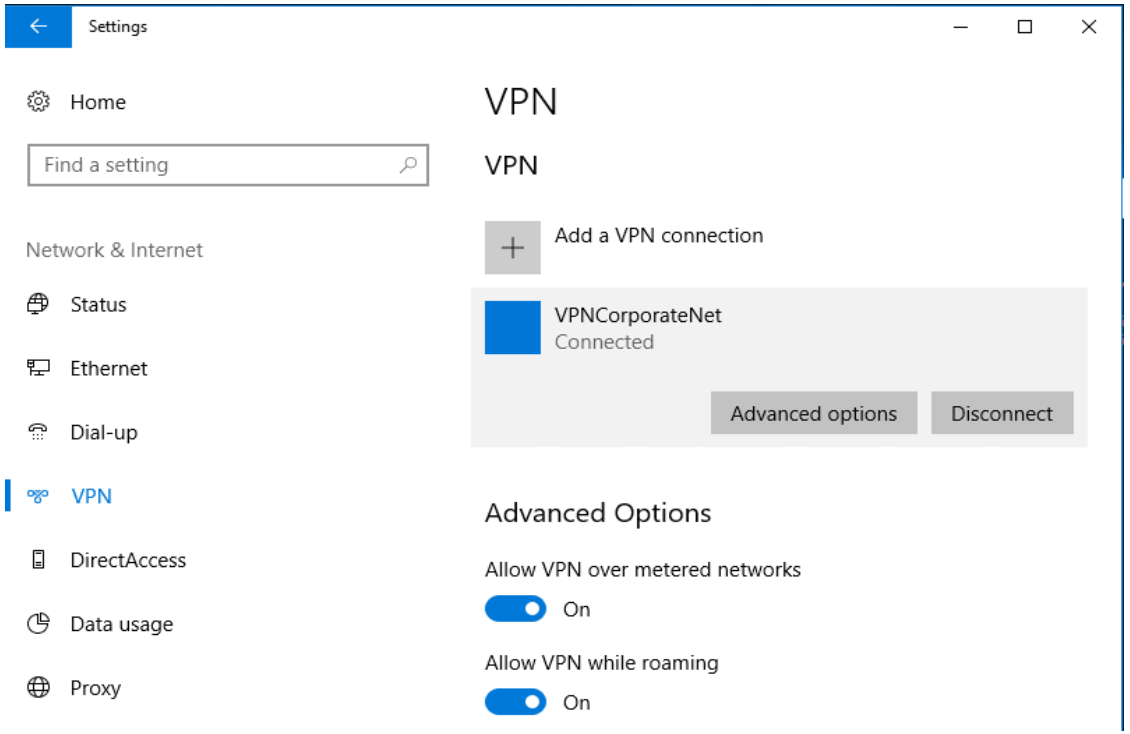
::Klient nastavenie (CLI vm)





TEST VPN pripojenia

::Pripojiť sa z CLI do korporátnej siete cez externý adaptér



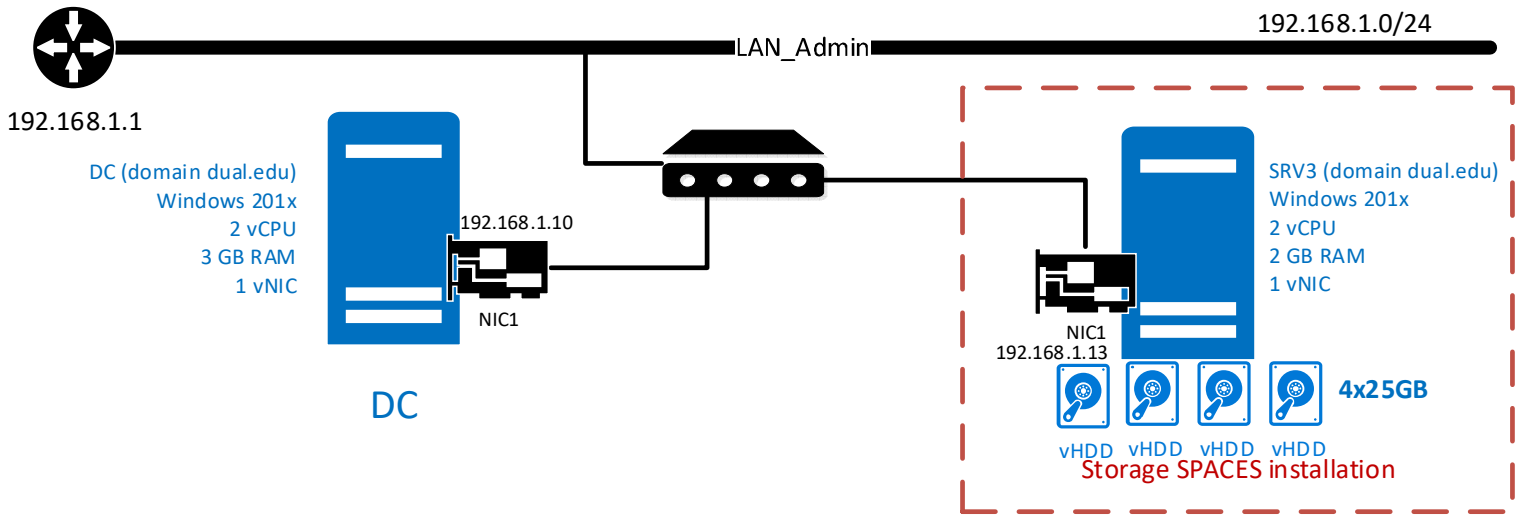
Akú máte pridelenú IP po úspešnom pripojení ?

Storage spaces

Špecializované IKT systémy Windows

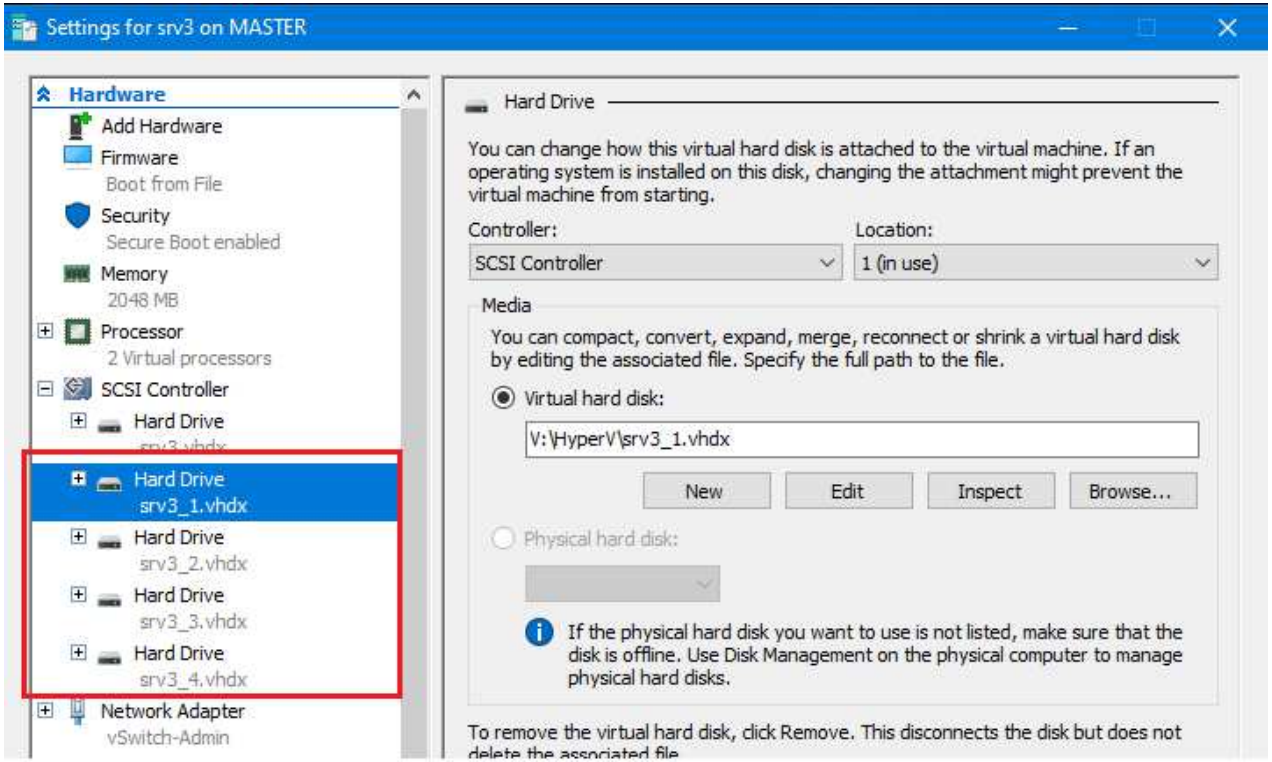
Ing. Stanislav Lukac, PhD.

LAB: Storage Spaces installation



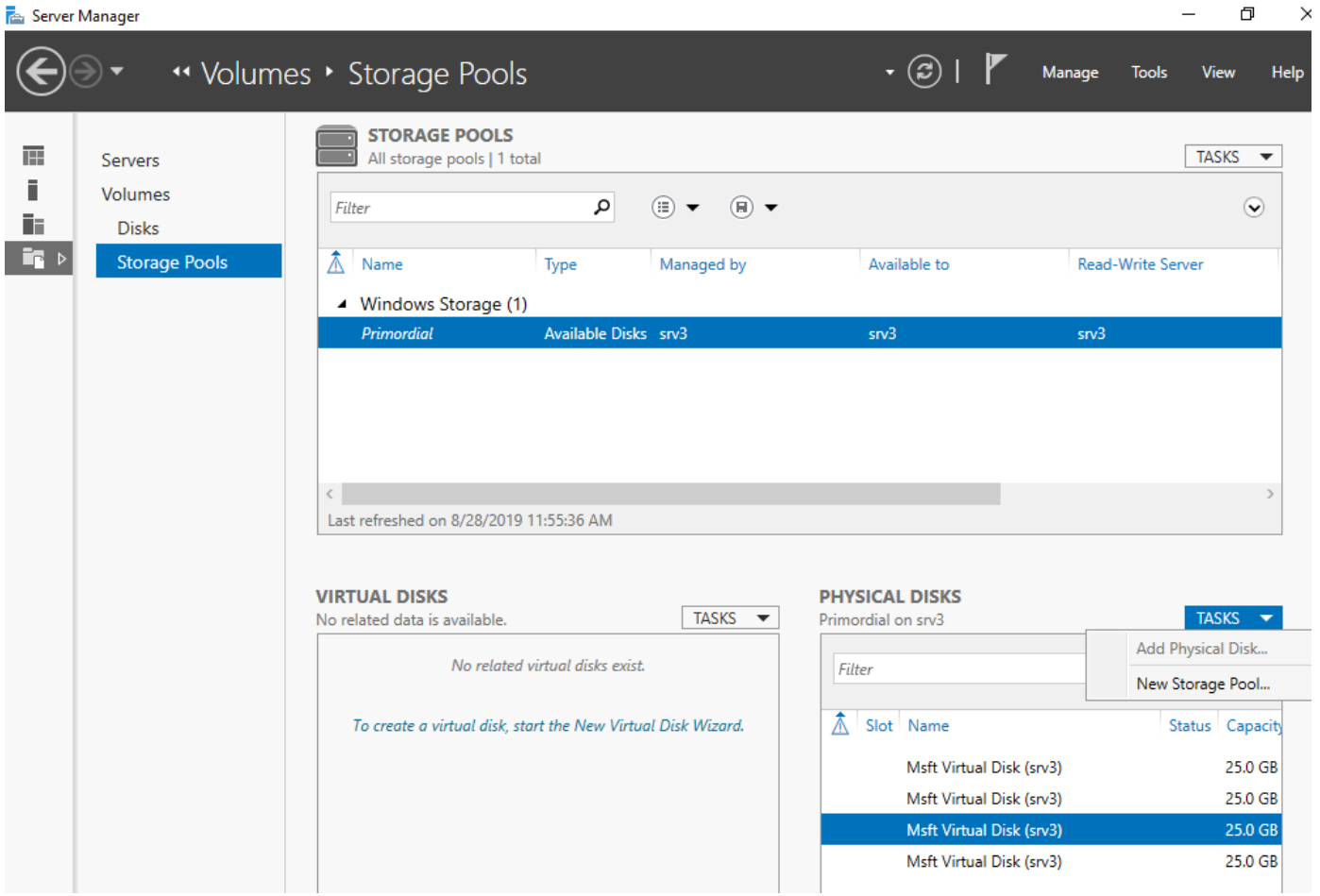
Krok 1

::Inštalácia dodatočných pevných diskov na SRV3



Krok 2

::Vytvorenie Storage POOL na SRV3



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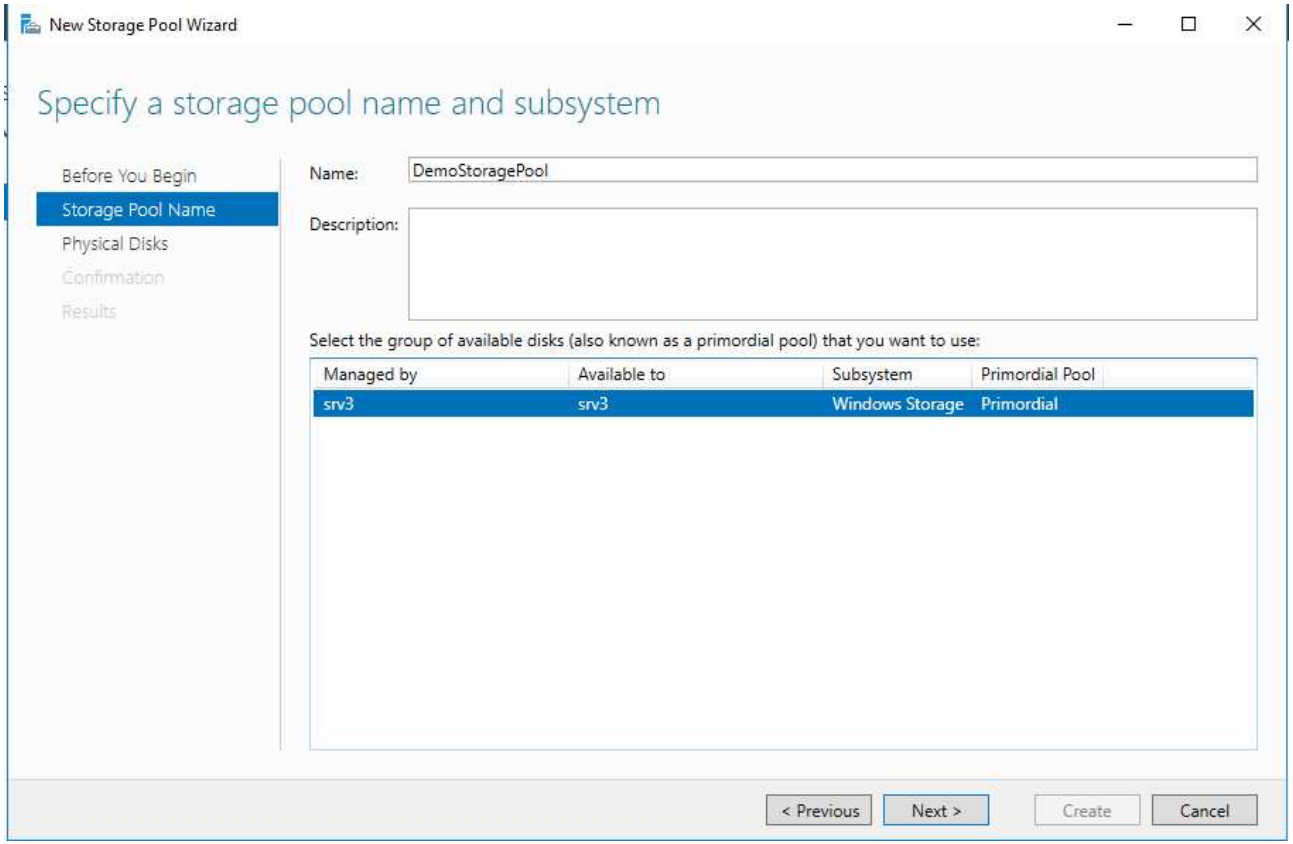
::Vytvorenie Storage POOL na SRV3



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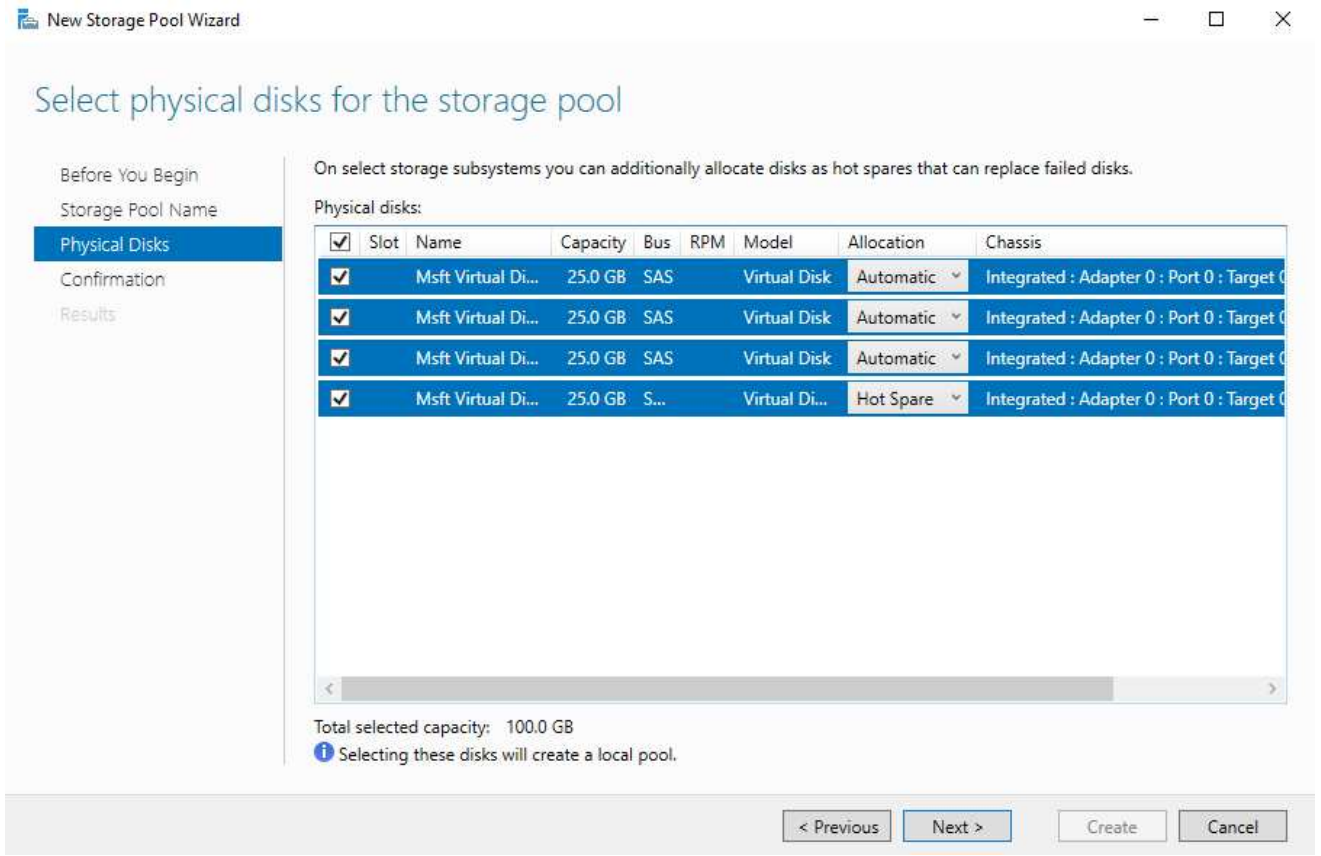

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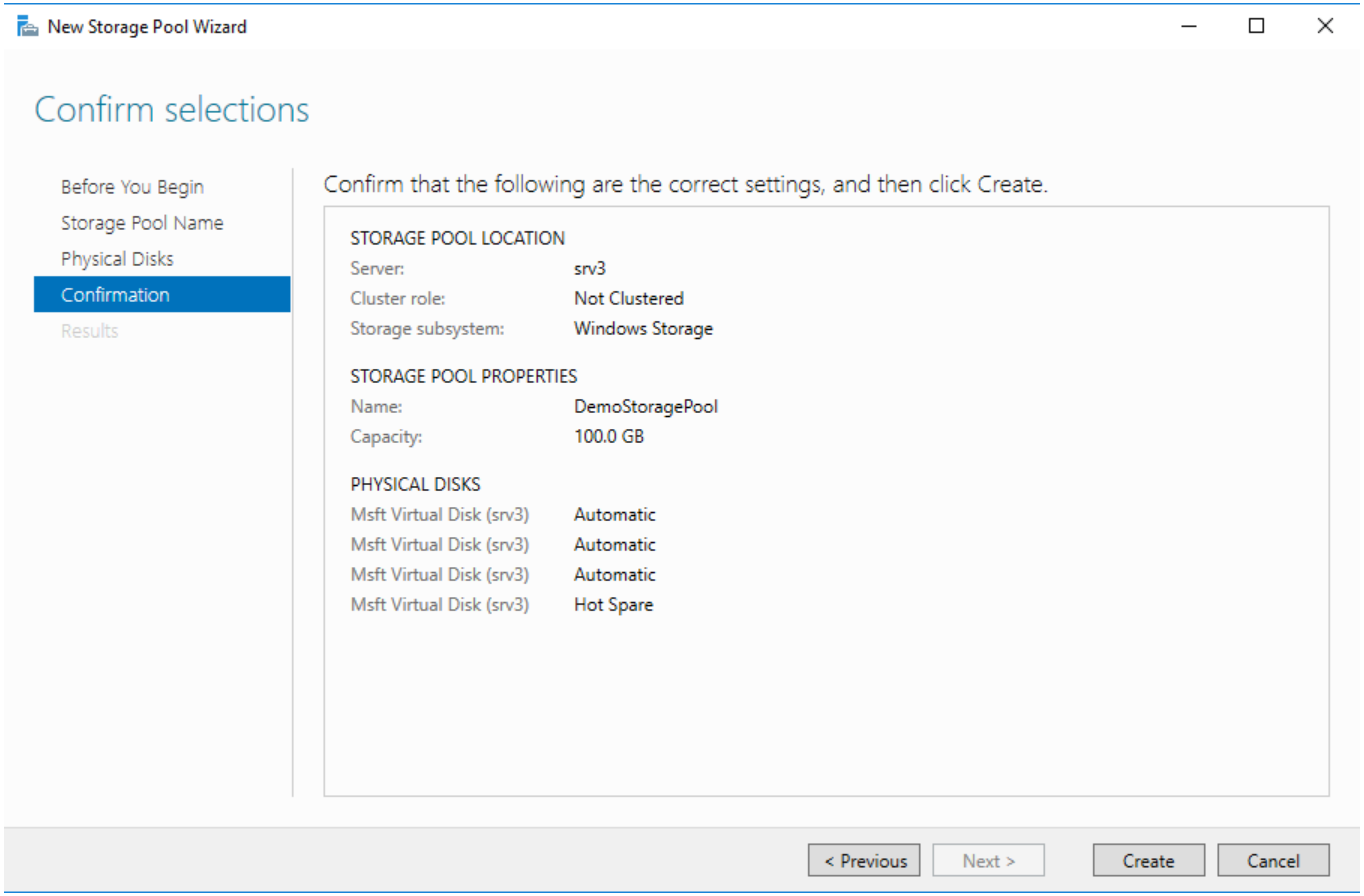

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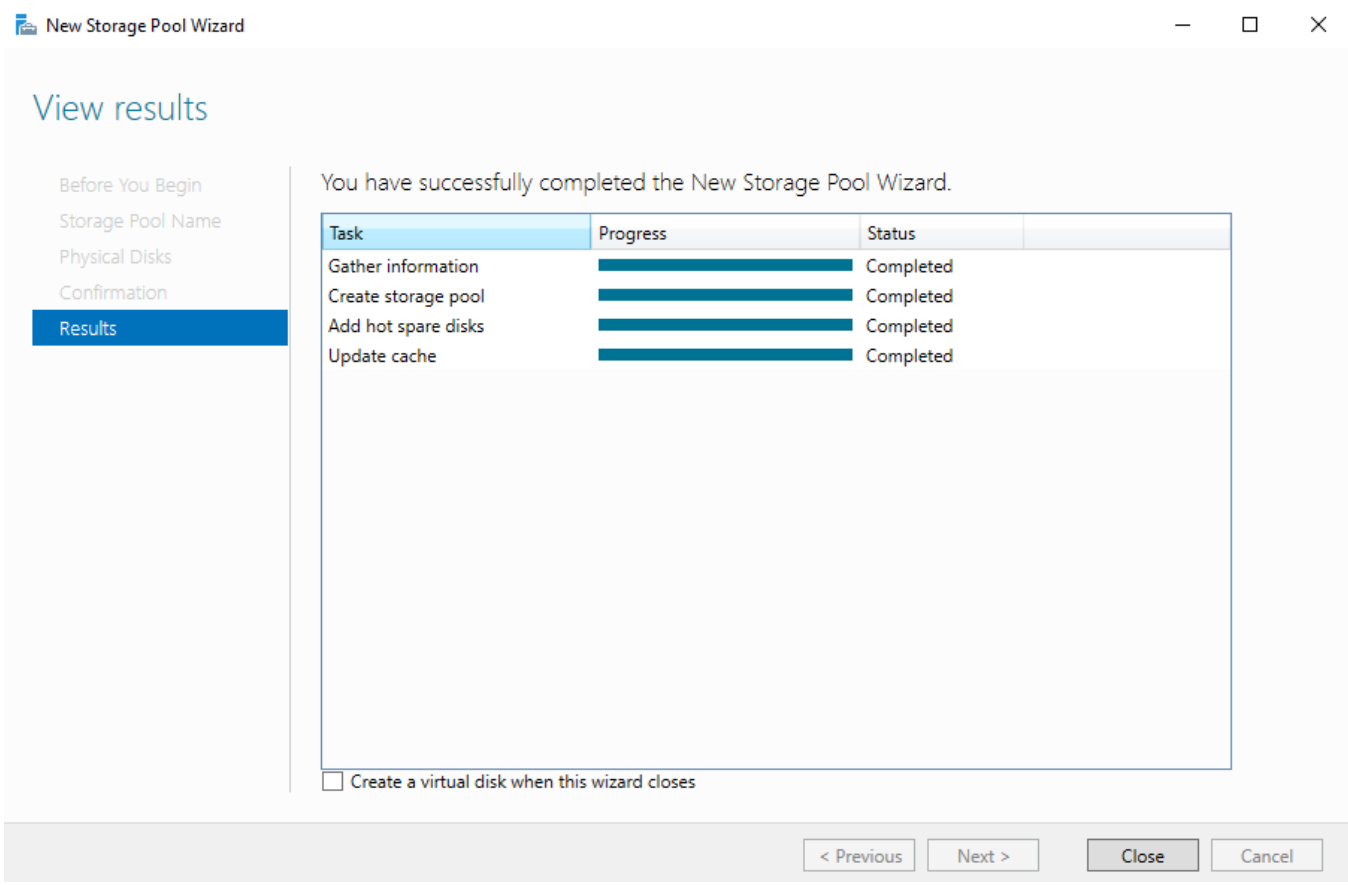
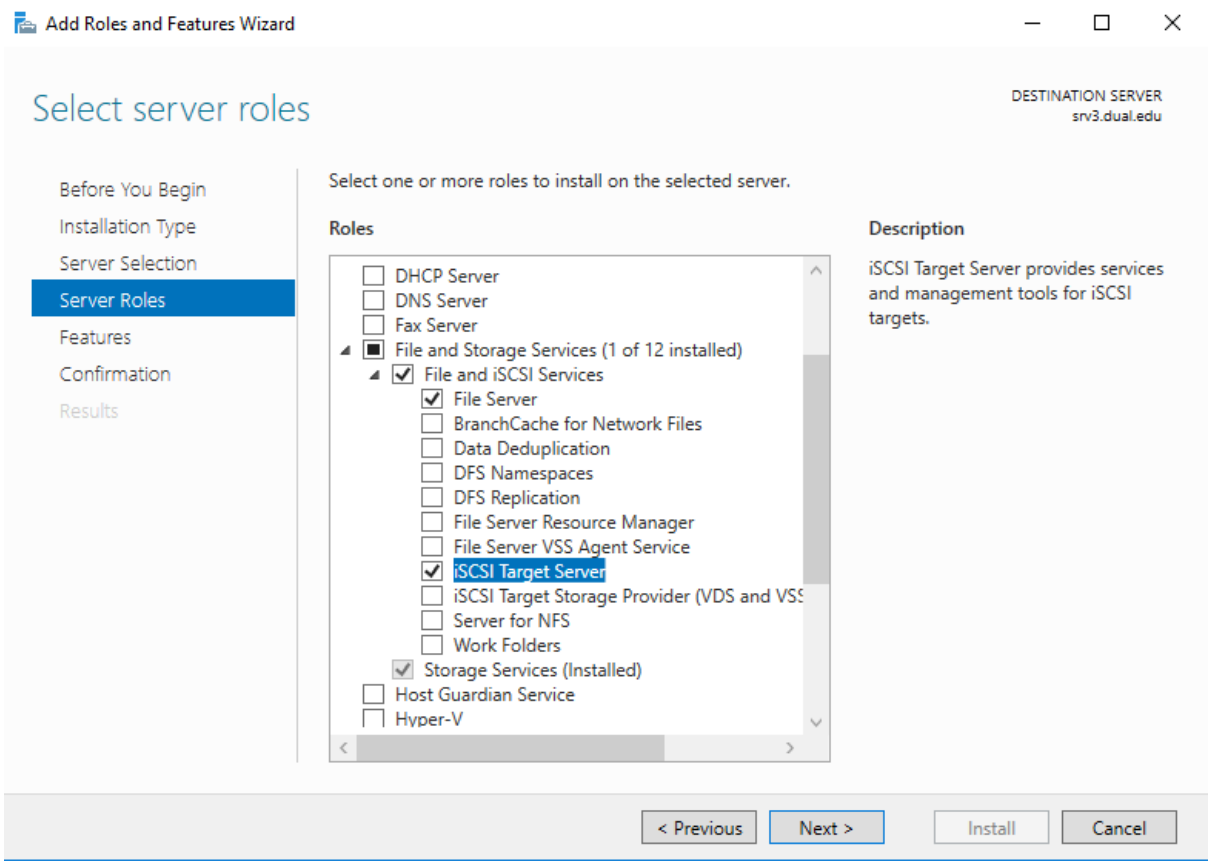


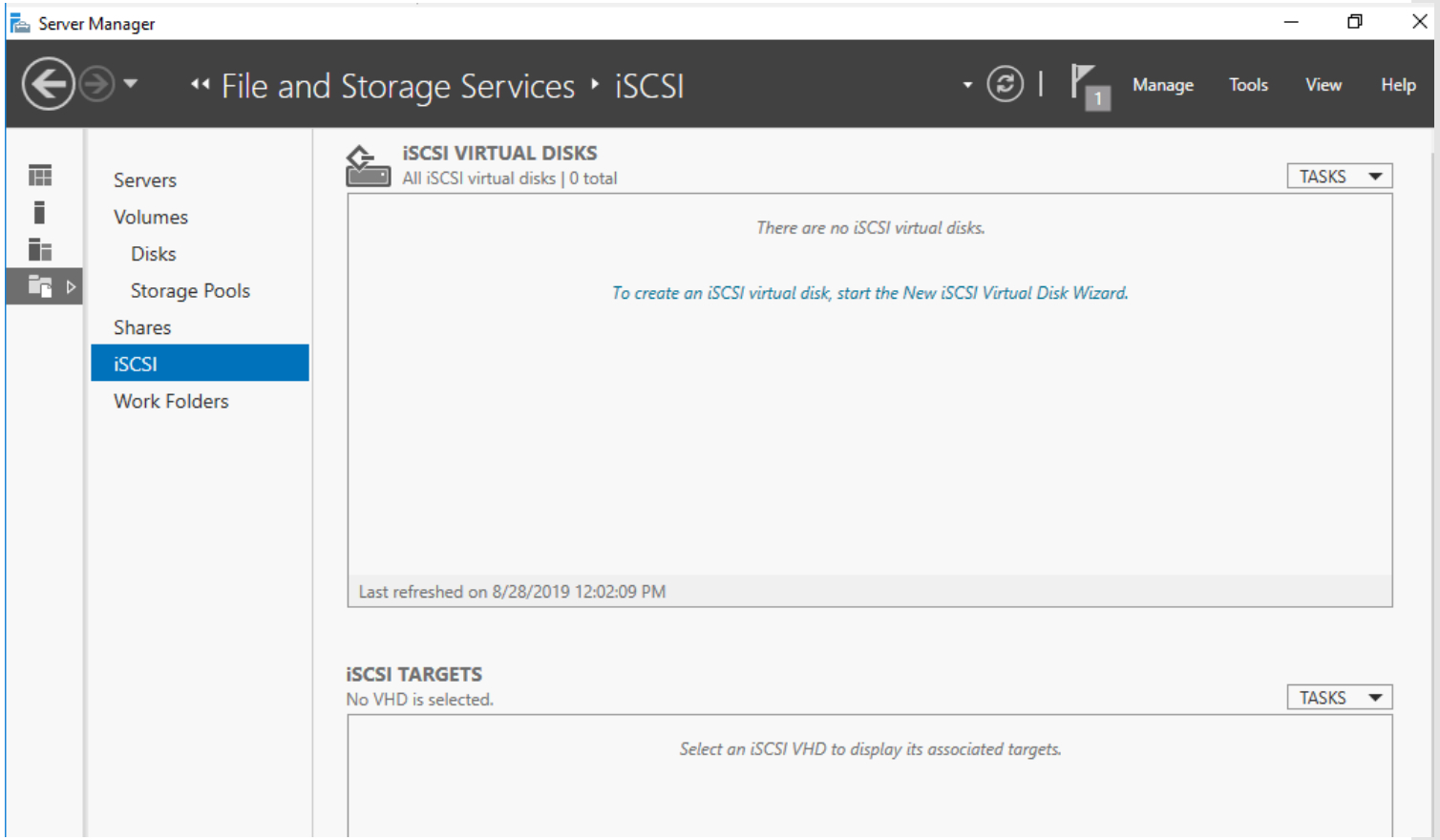
Krok 3

::Inštalácia iSCSI Target server role na SRV3



Krok 4

::Konfigurácia iSCSI Target server role na SRV3

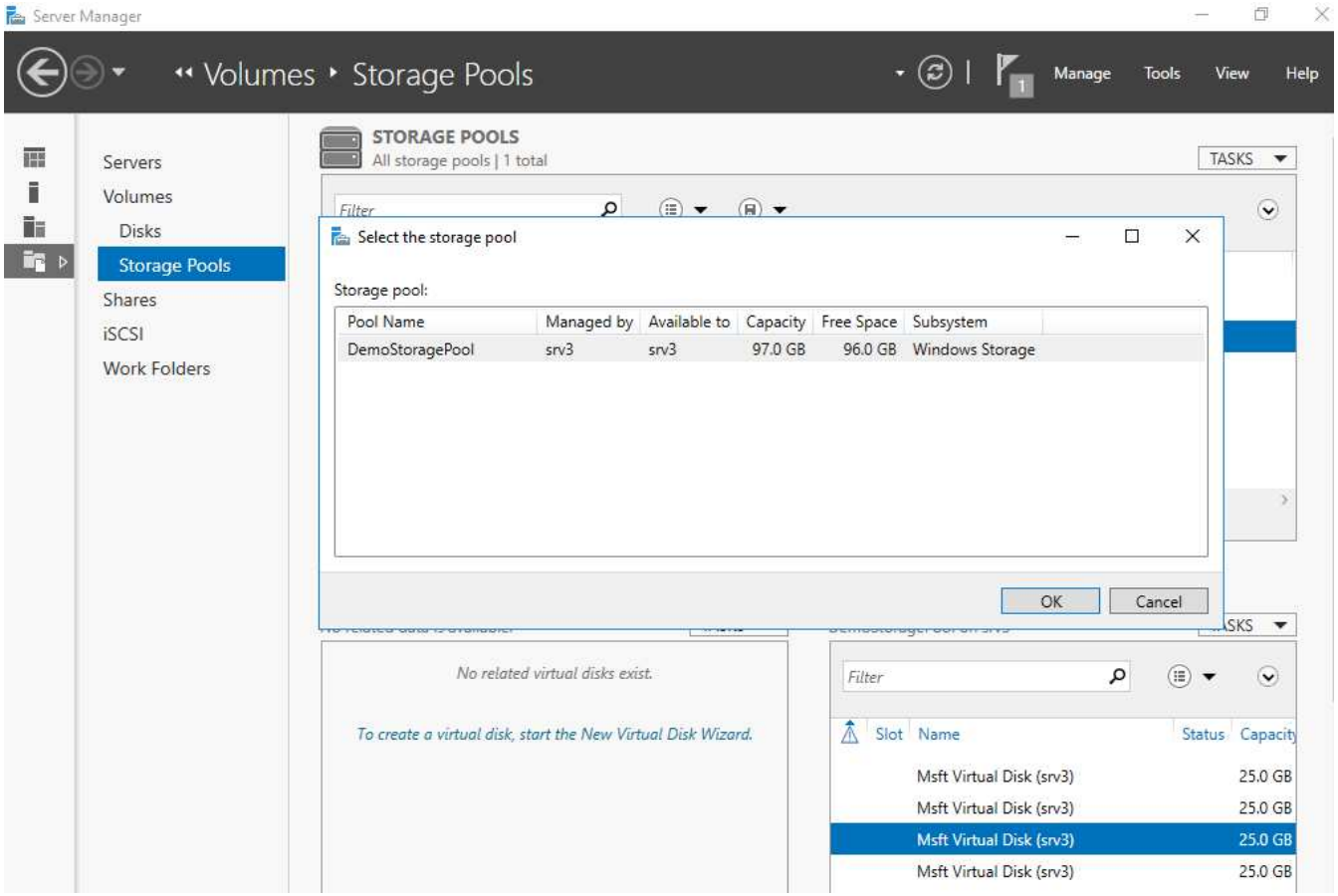


Krok 4

::Konfigurácia virtuálneho disku z DemoStoragePool na SRV3

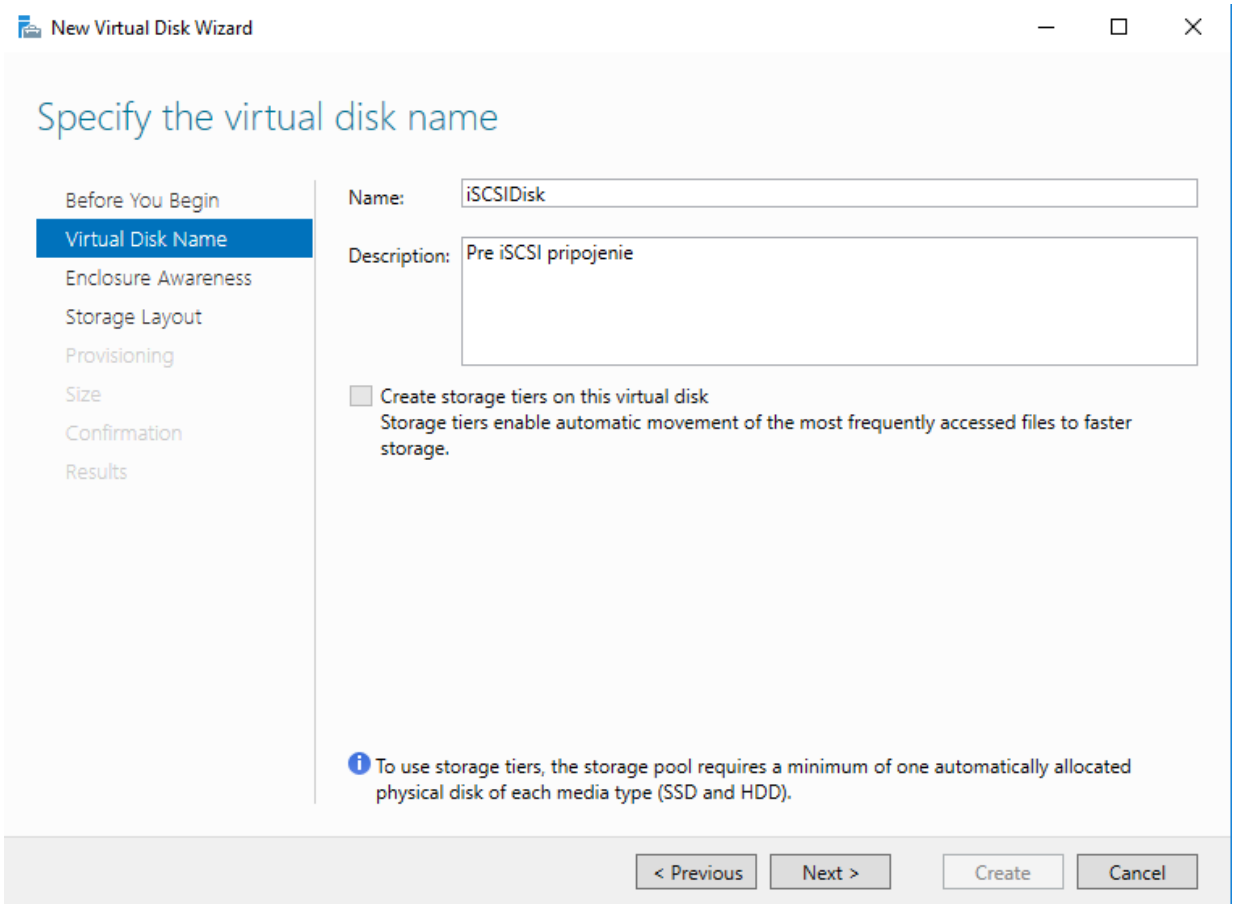
Krok 4

::Konfigurácia virtuálneho disku z DemoStoragePool na SRV3



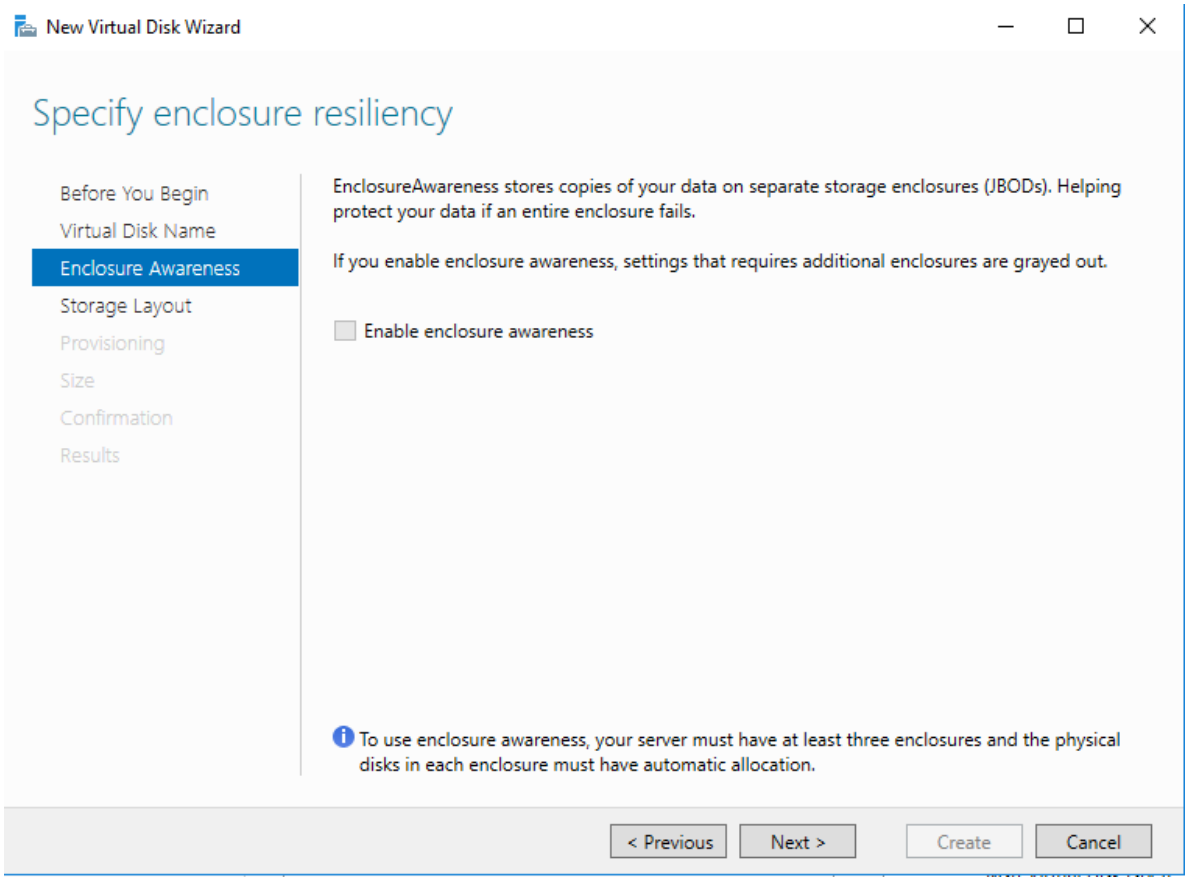
Krok 4

::Konfigurácia virtuálneho disku z DemoStoragePool na SRV3



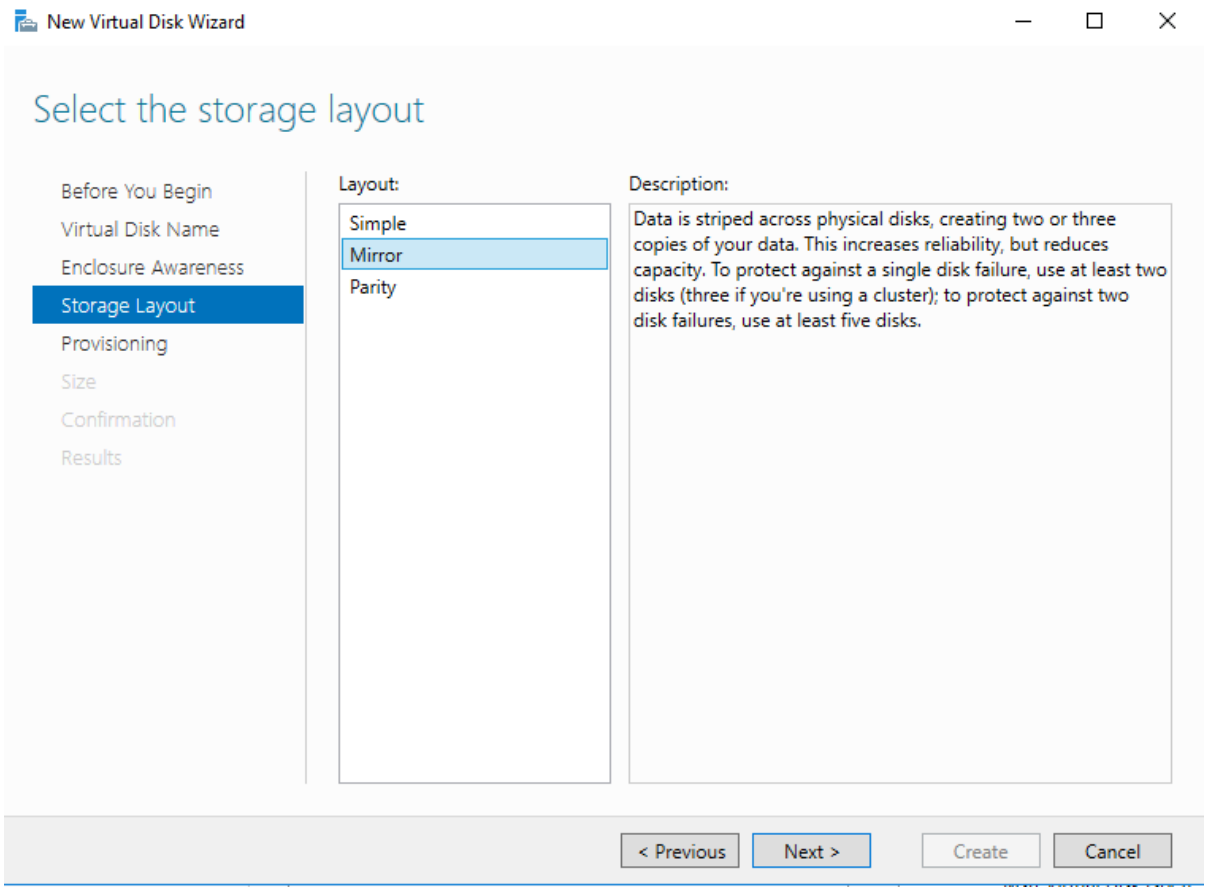
Krok 4

::Konfigurácia virtuálneho disku z DemoStoragePool na SRV3



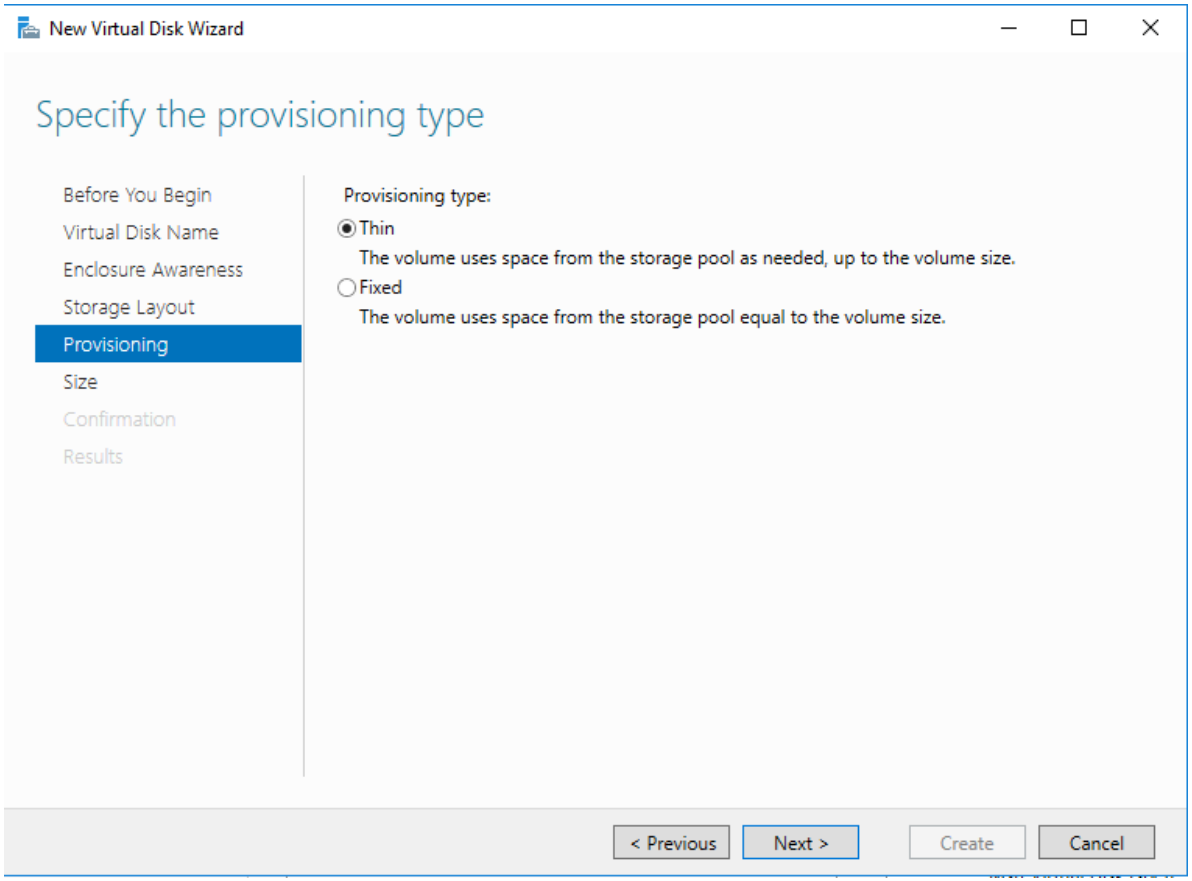
Krok 4

::Konfigurácia virtuálneho disku z DemoStoragePool na SRV3



Krok 4

::Konfigurácia virtuálneho disku z DemoStoragePool na SRV3



Krok 4

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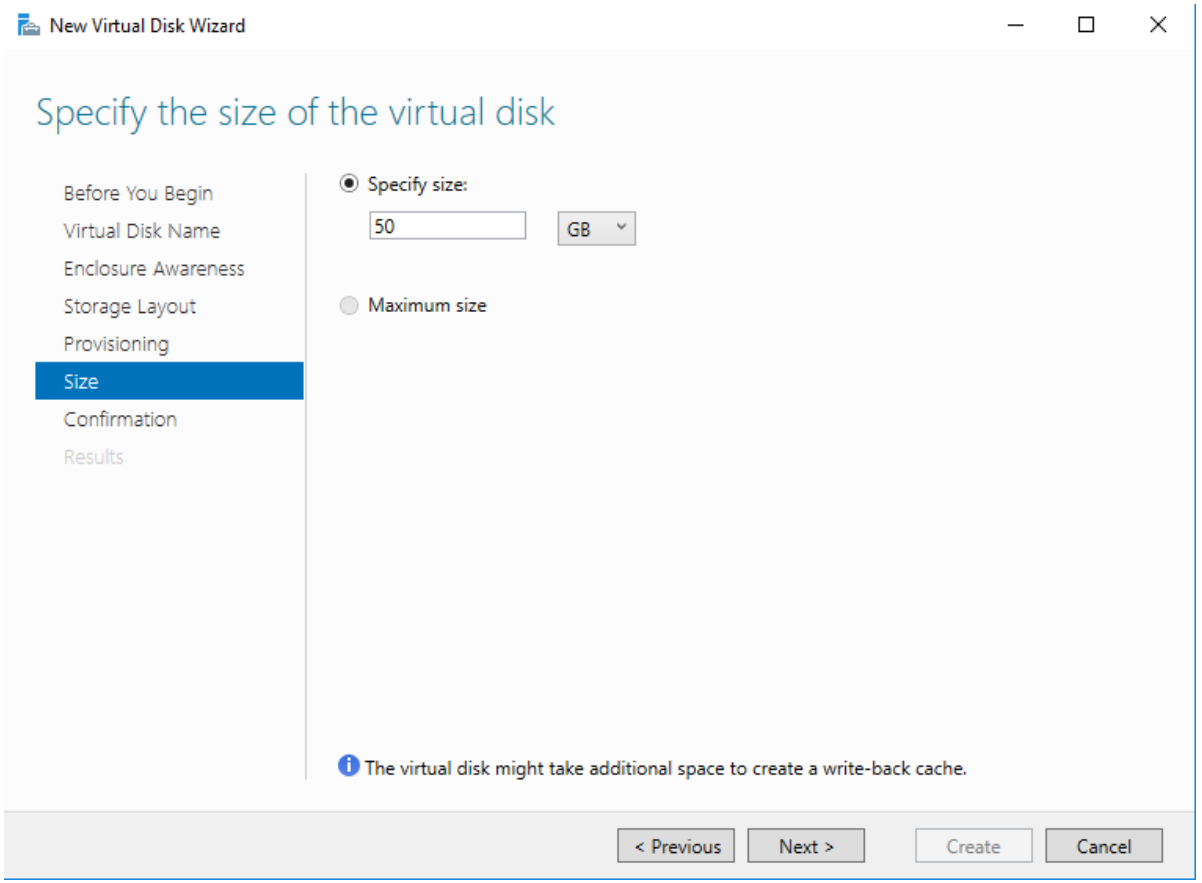
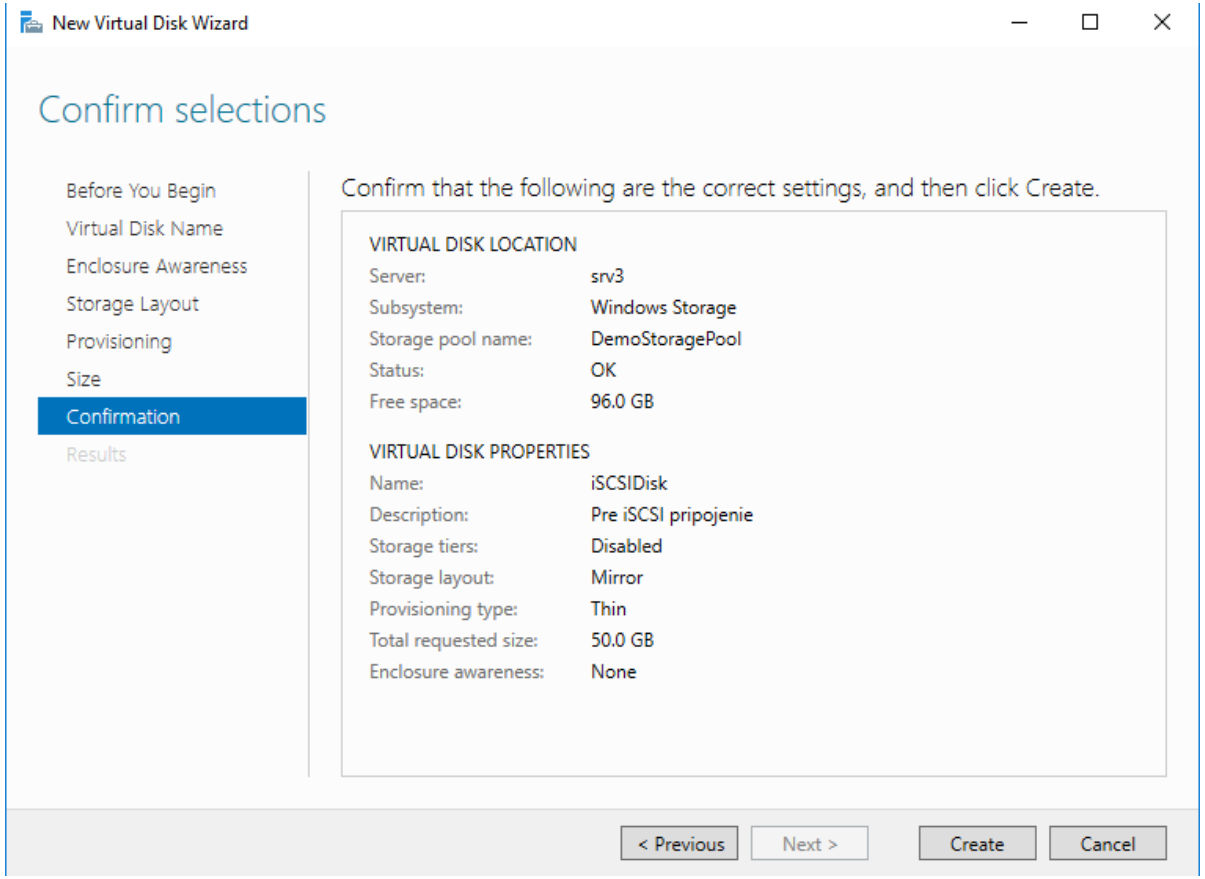


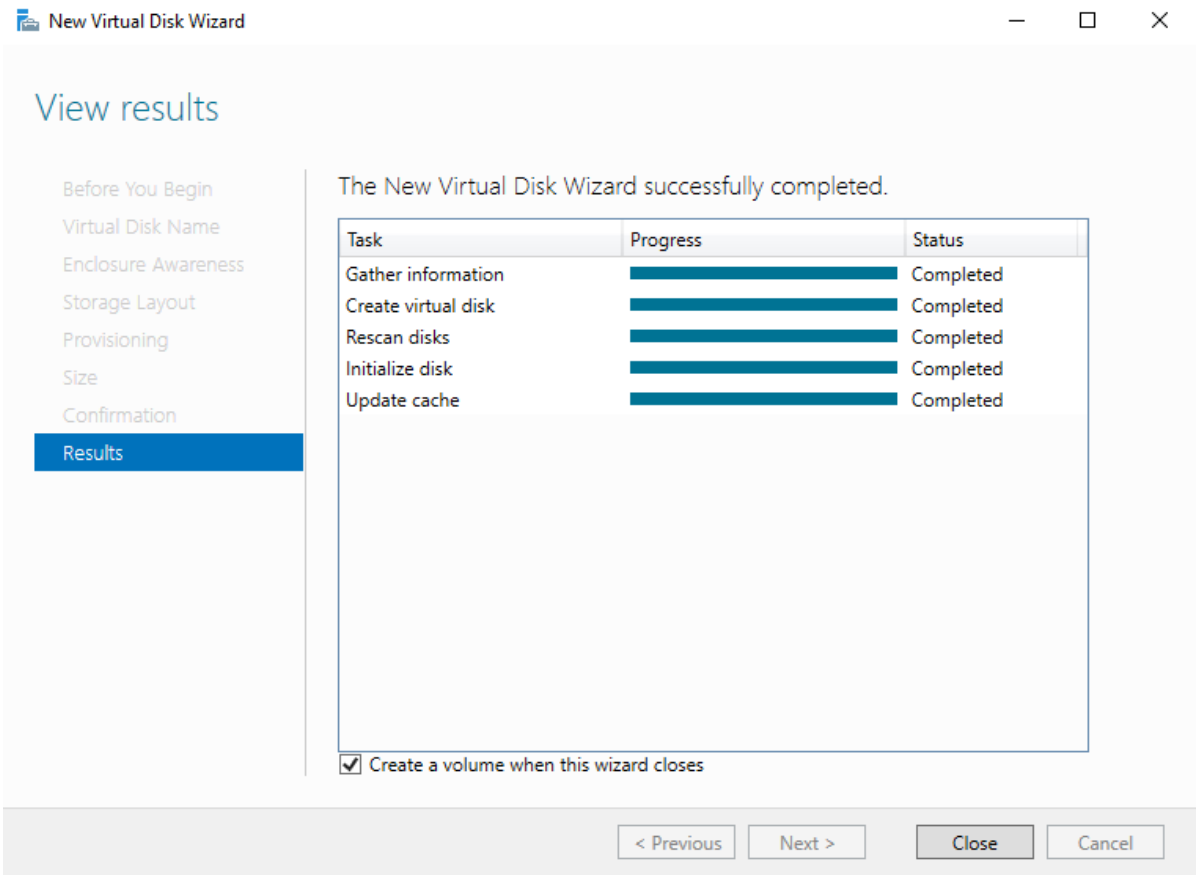
Krok 4

::Konfigurácia virtuálneho disku z DemoStoragePool na SRV3



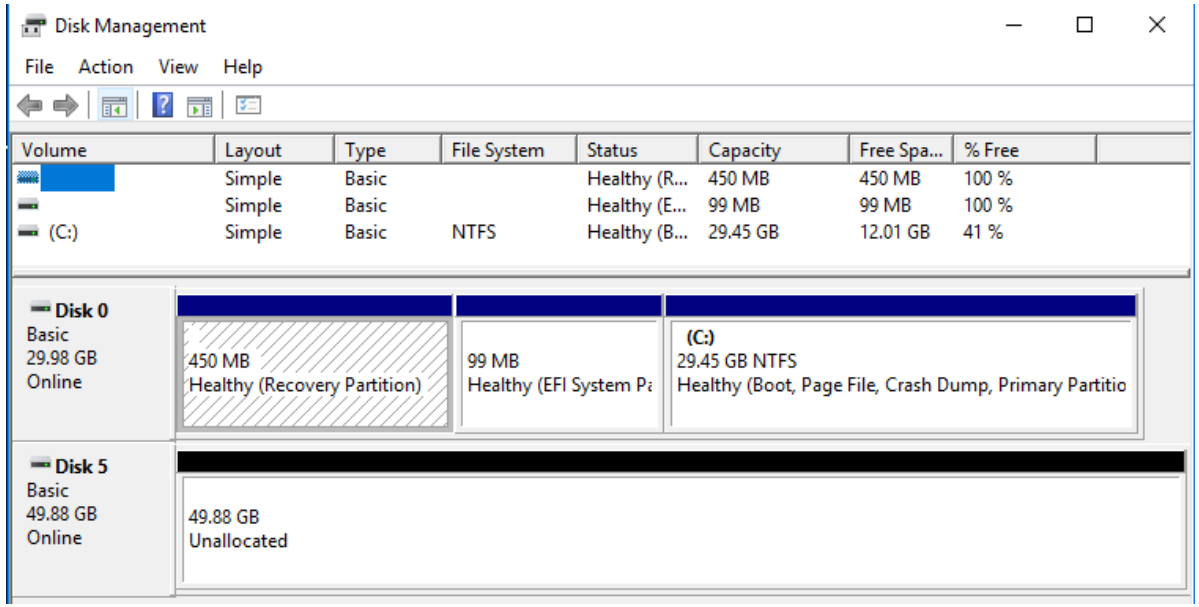
Krok 4

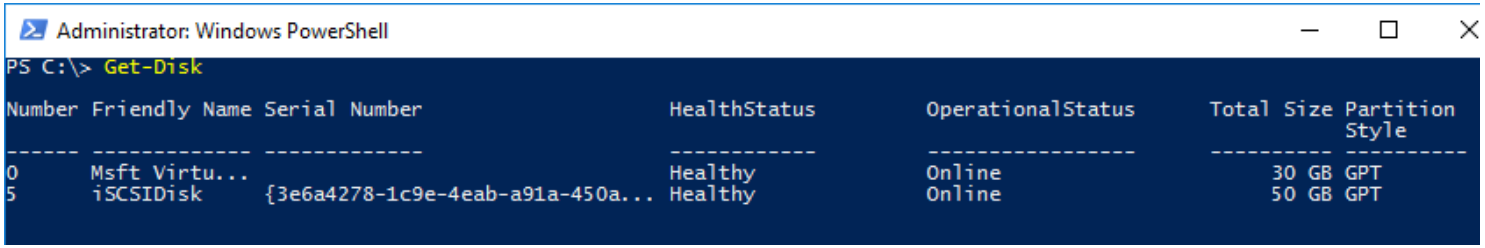
::Konfigurácia virtuálneho disku z DemoStoragePool na SRV3



Krok 4

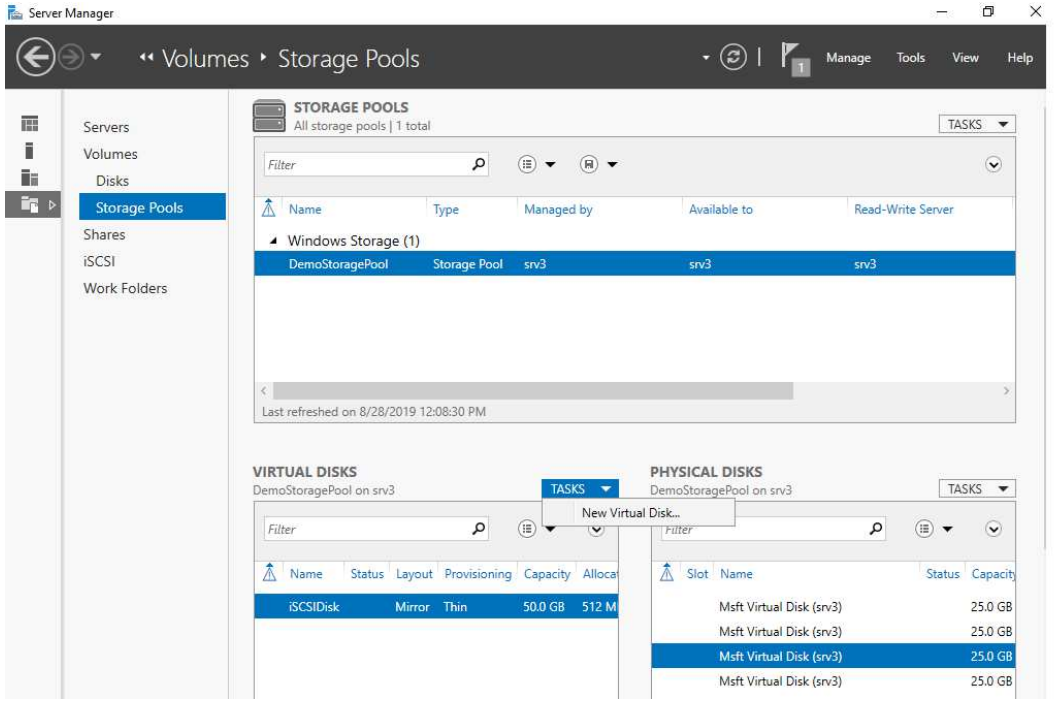
::Validácia nového virtuálneho disku na SRV3

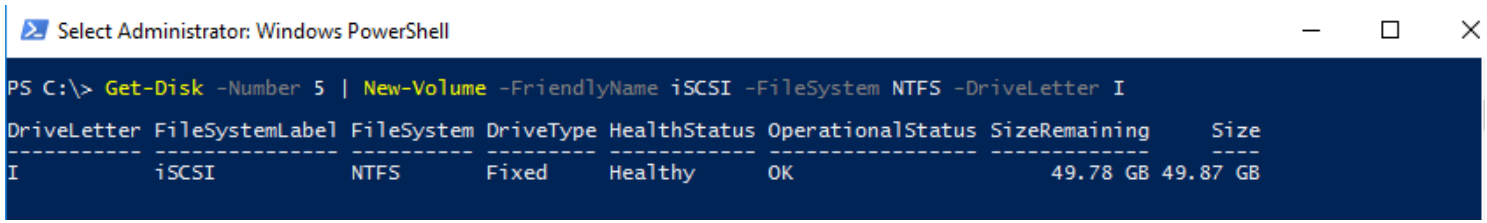




Krok 5

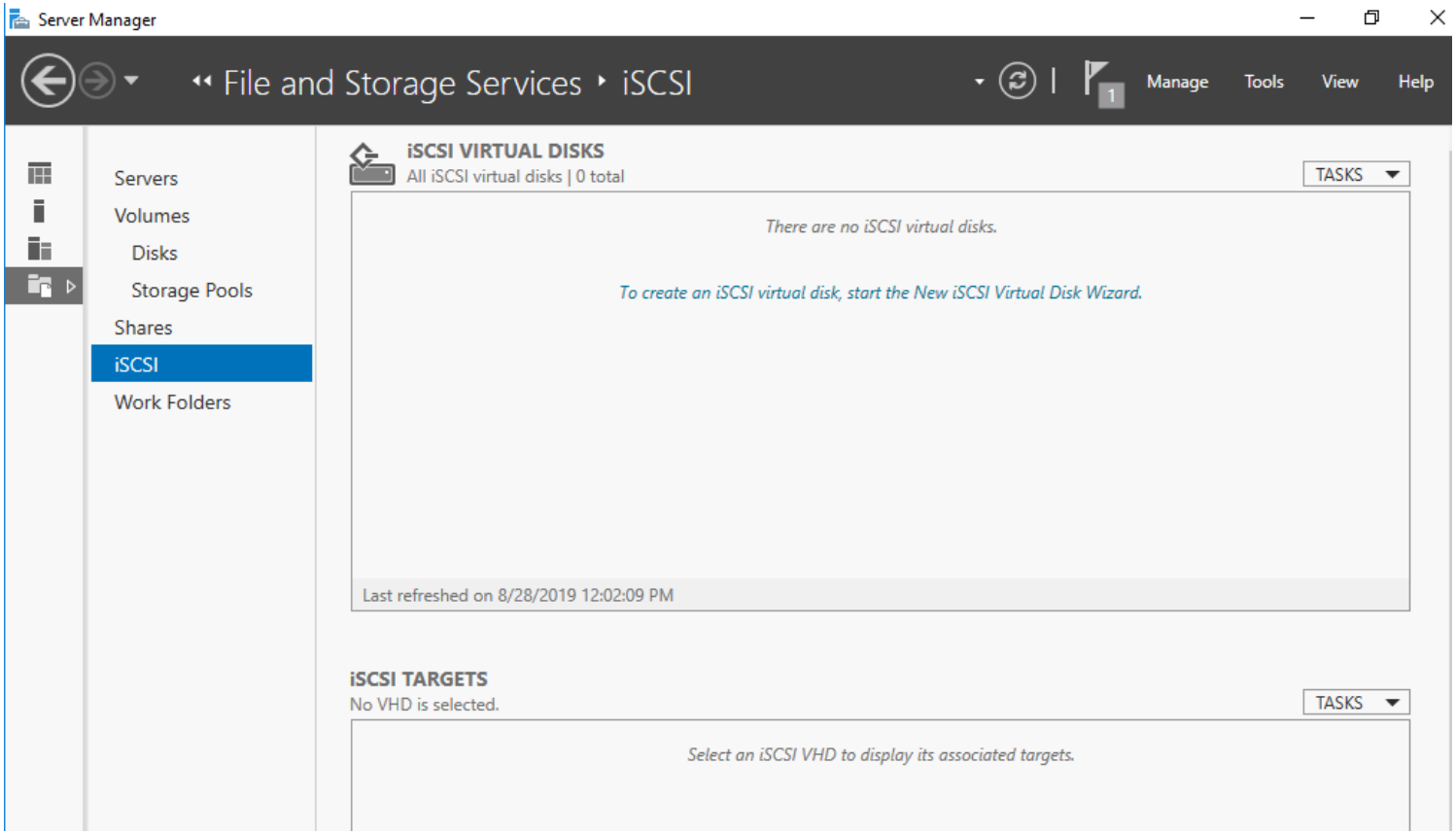
::Vytvorenie volume S na novo virtuálnom disku na SRV3





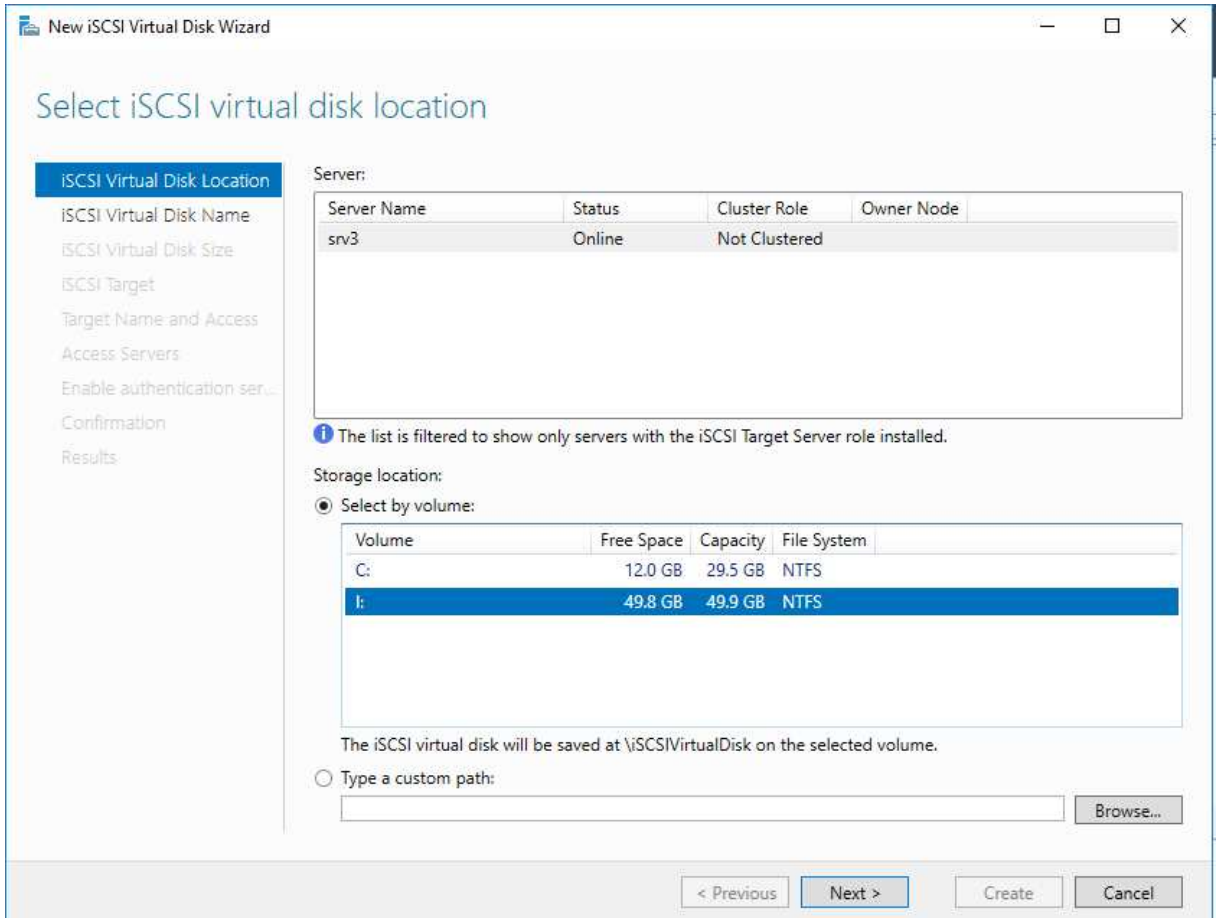
Krok 6

::Konfigurácia iSCSI target role na SRV3



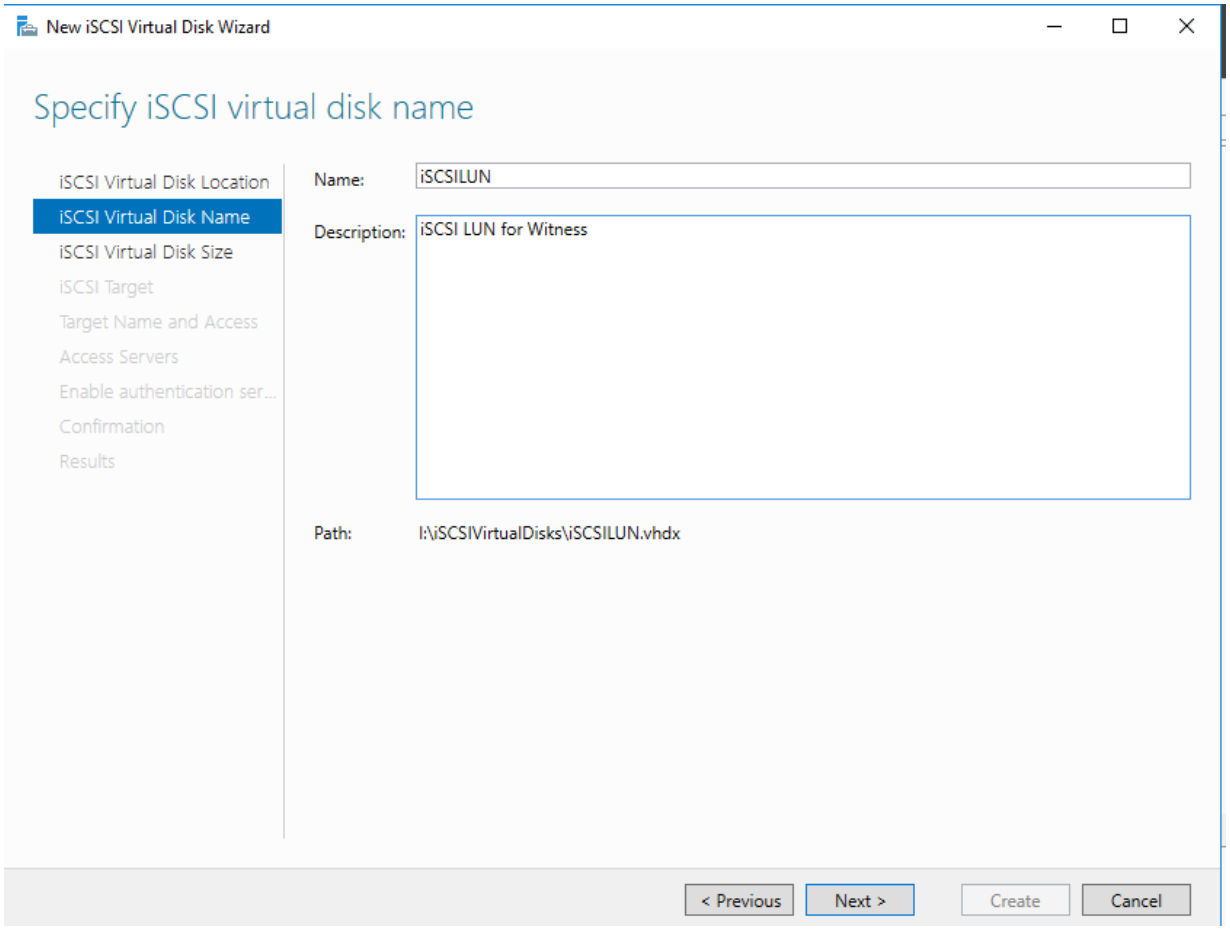
Krok 6

::Konfigurácia iSCSI target role na SRV3



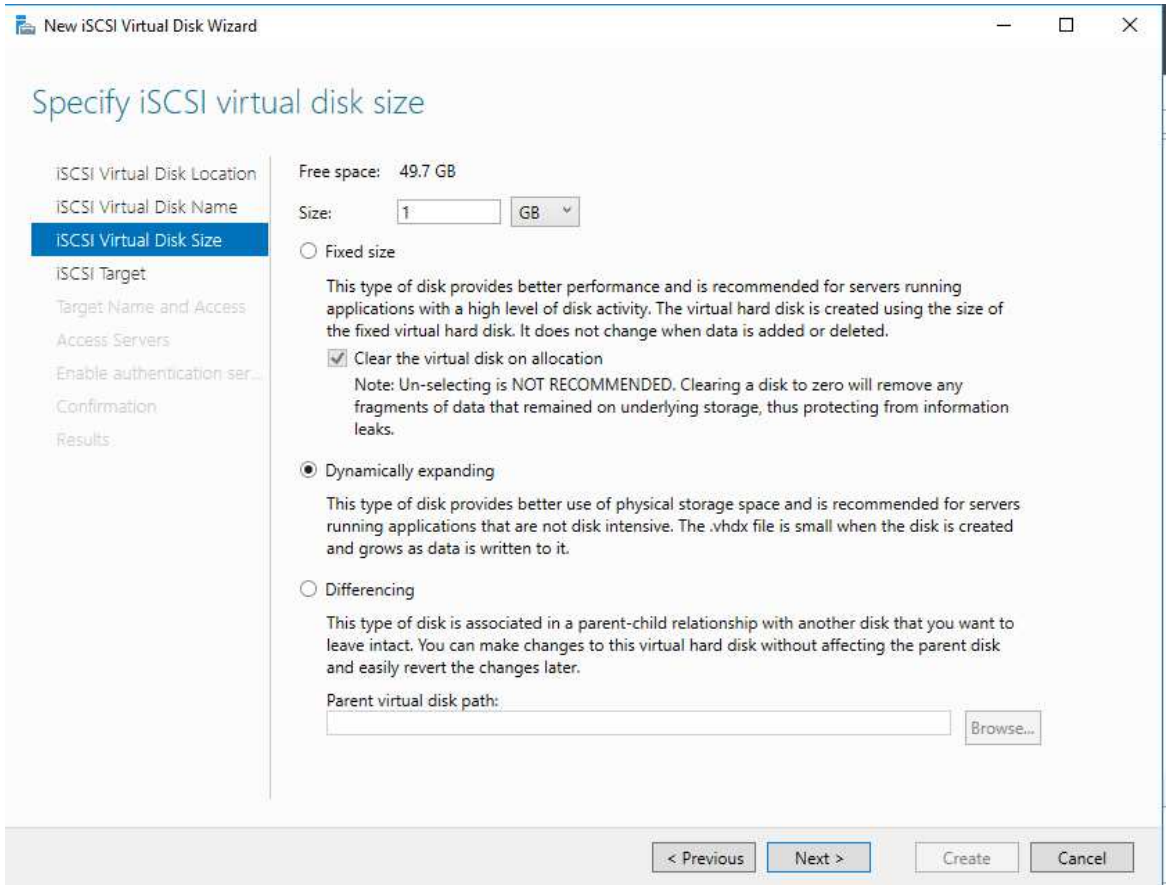
Krok 6

::Konfigurácia iSCSI target role na SRV3



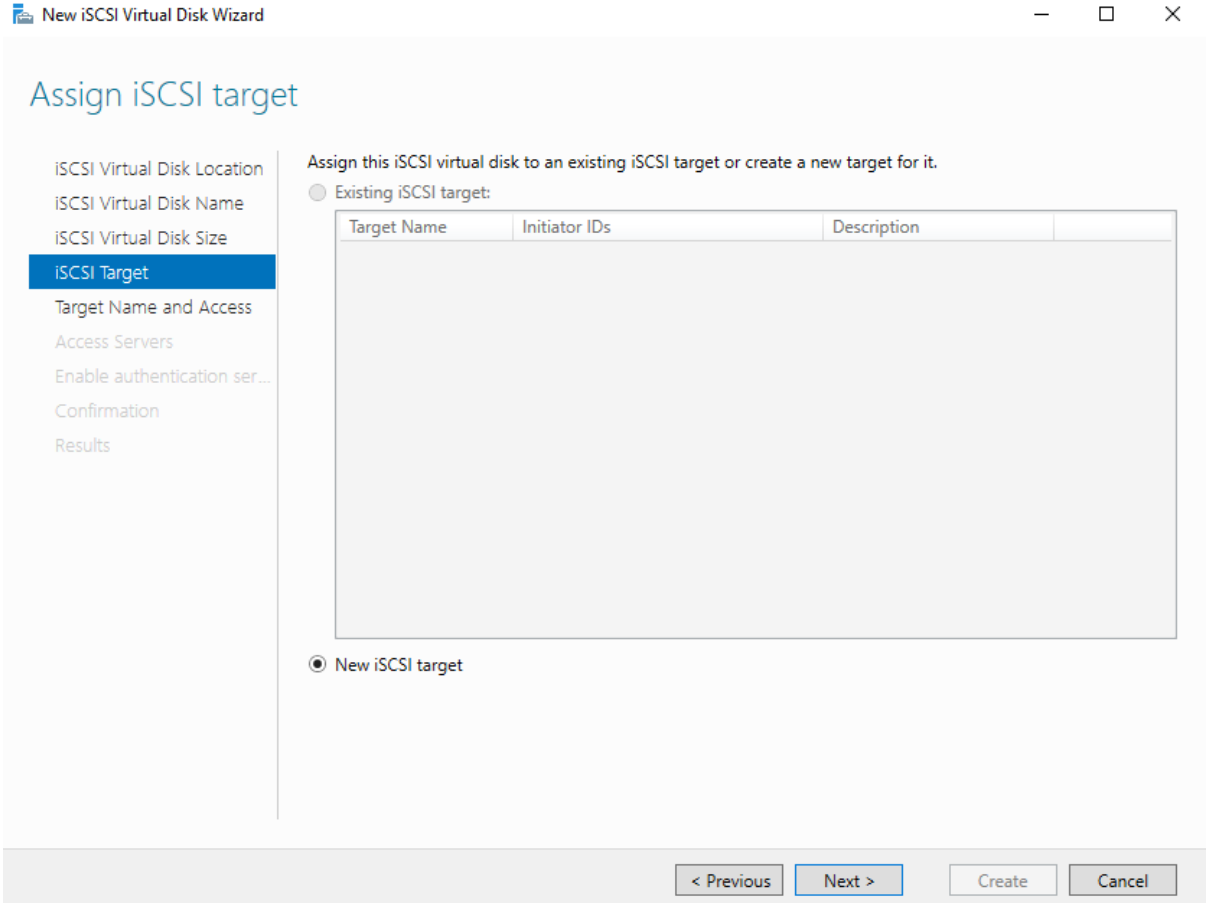
Krok 6

::Konfigurácia iSCSI target role na SRV3



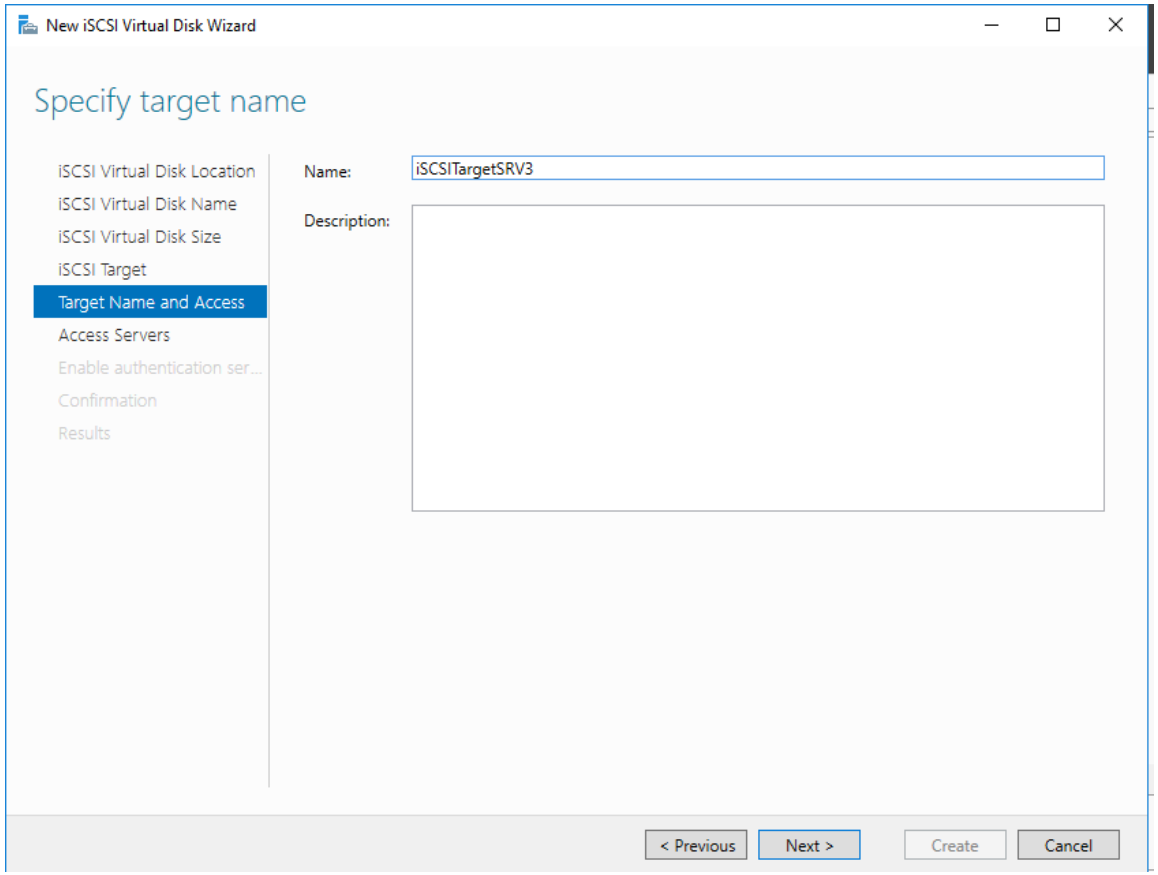
Krok 6

::Konfigurácia iSCSI target role na SRV3



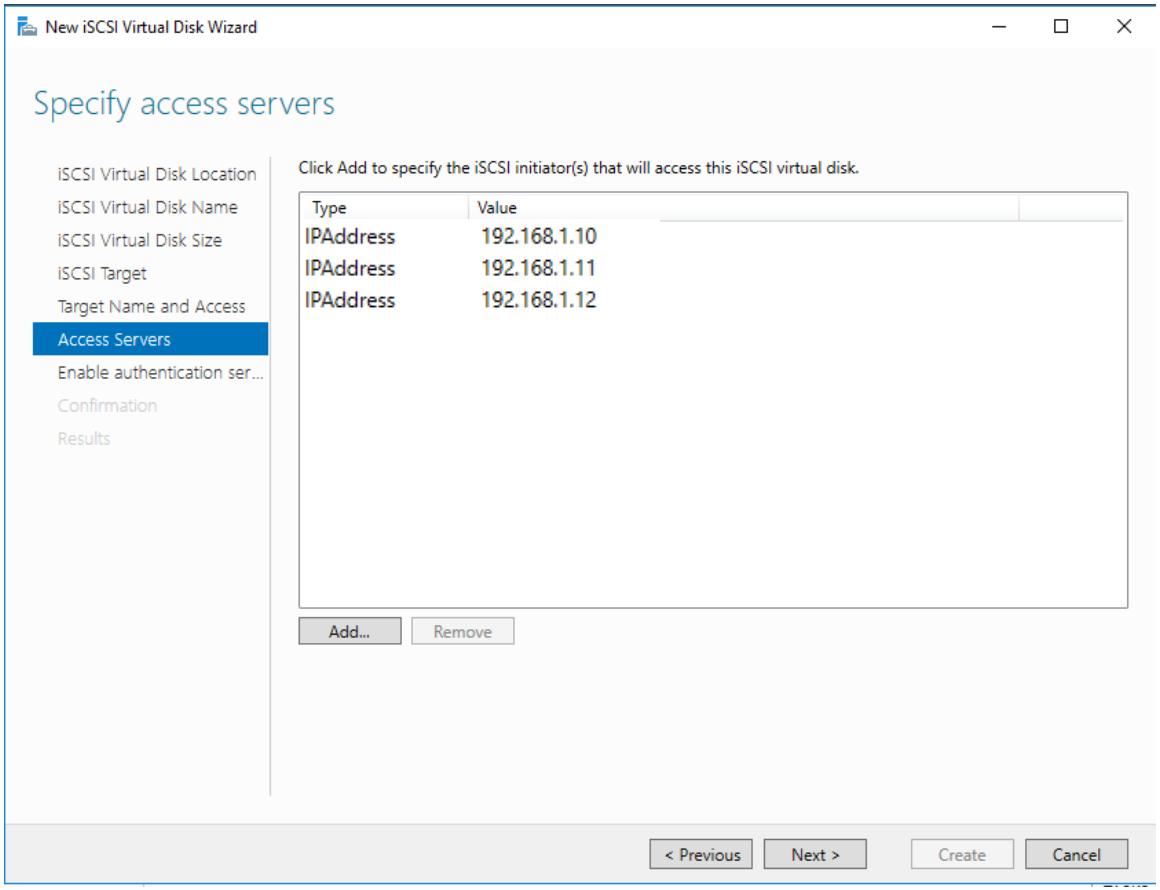
Krok 6

::Konfigurácia iSCSI target role na SRV3



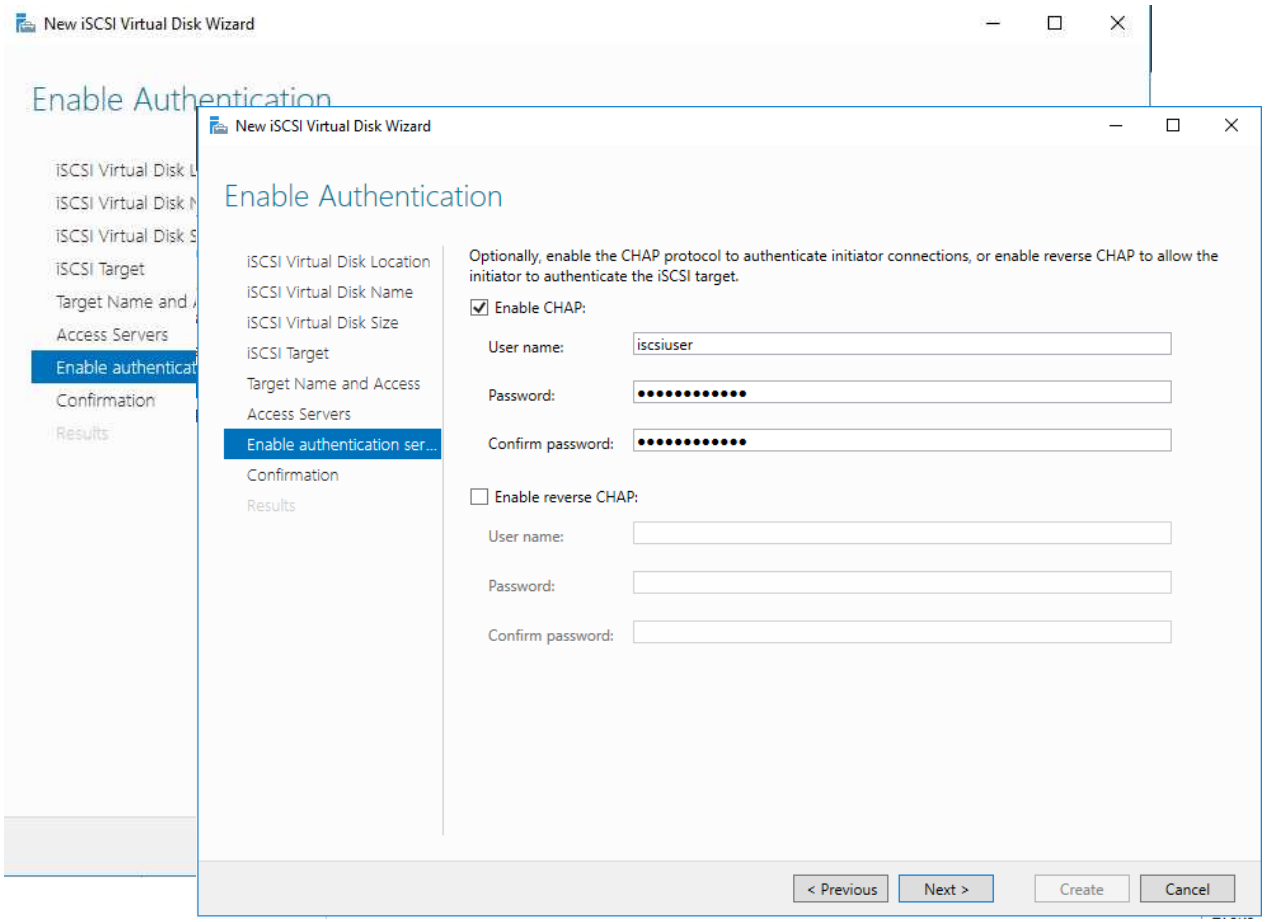
Krok 6

::Konfigurácia iSCSI target role na SRV3



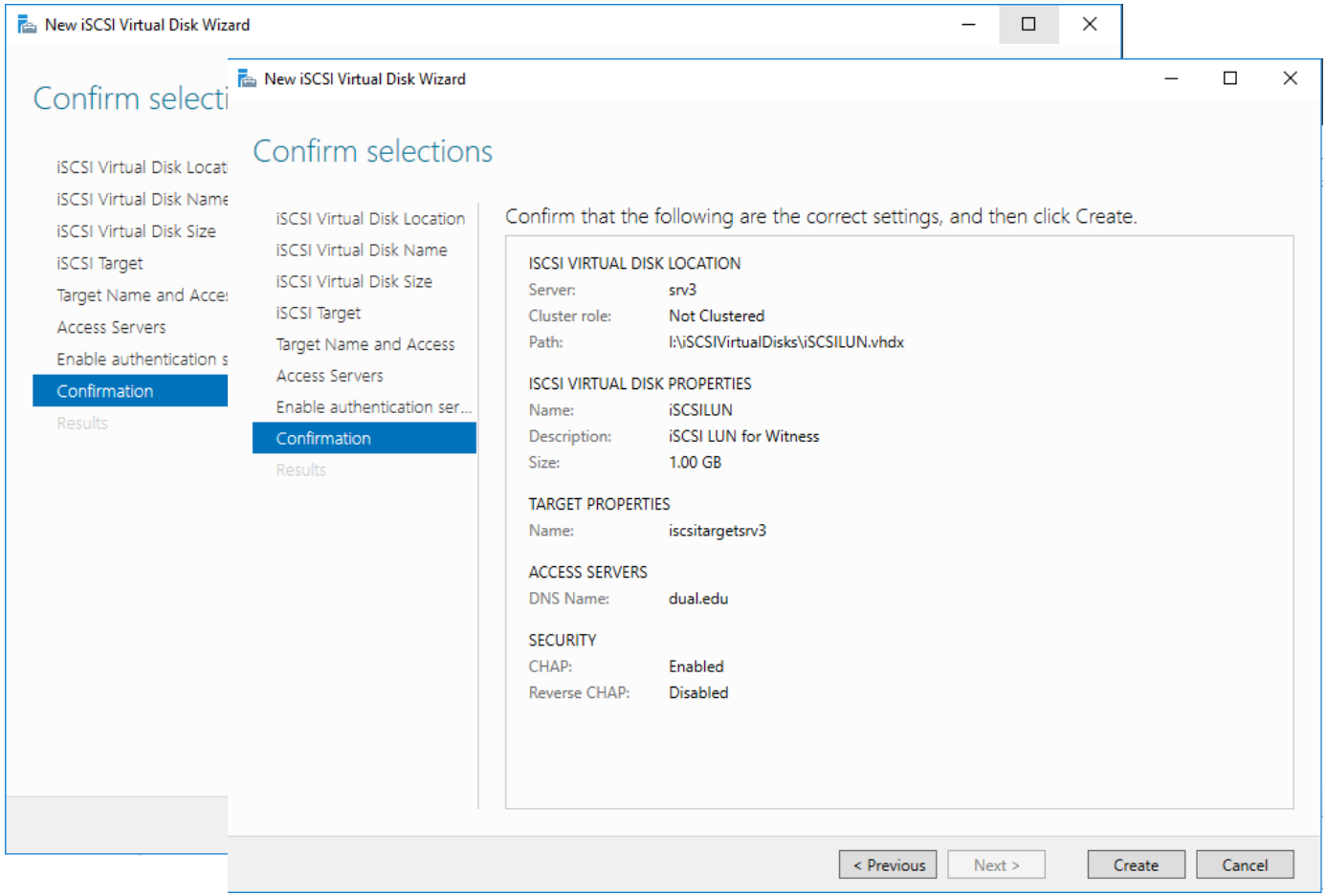
Krok 6

::Konfigurácia iSCSI target role na SRV3



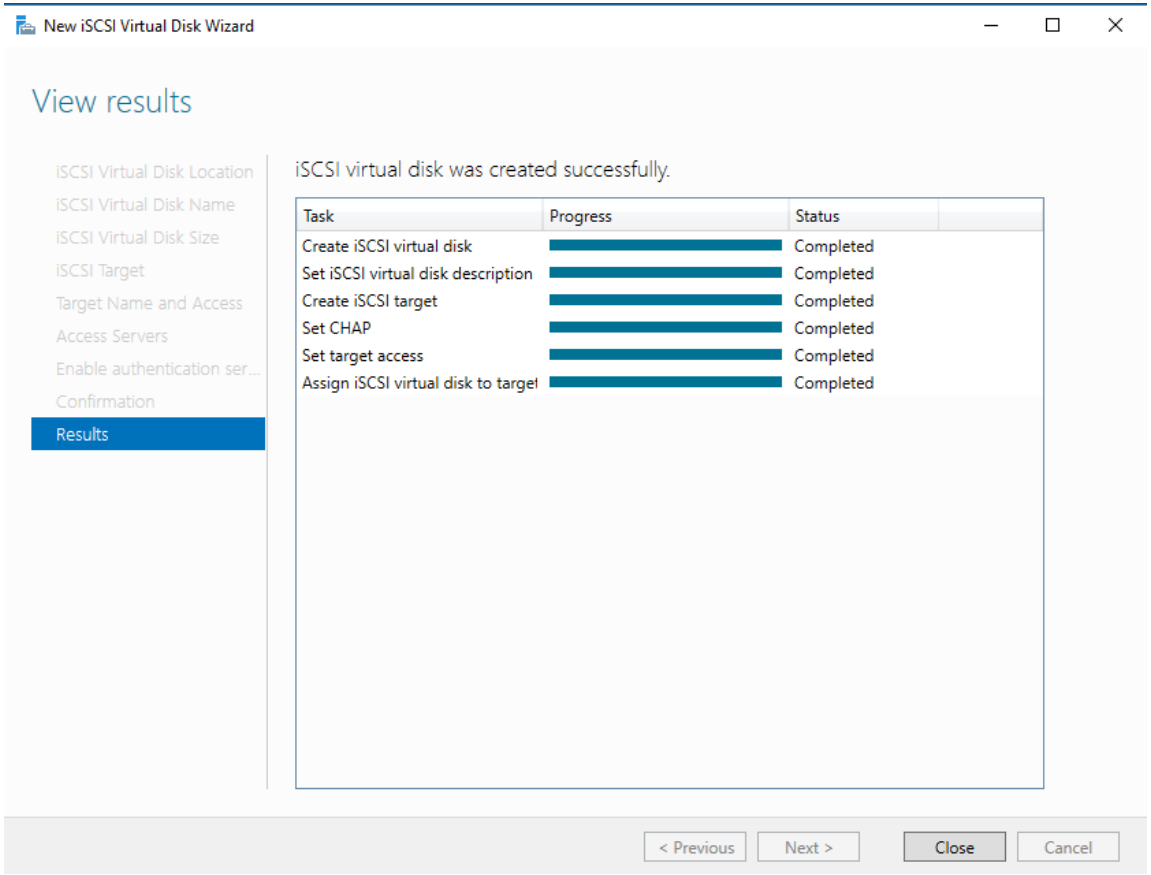
Krok 6

::Konfigurácia iSCSI target role na SRV3



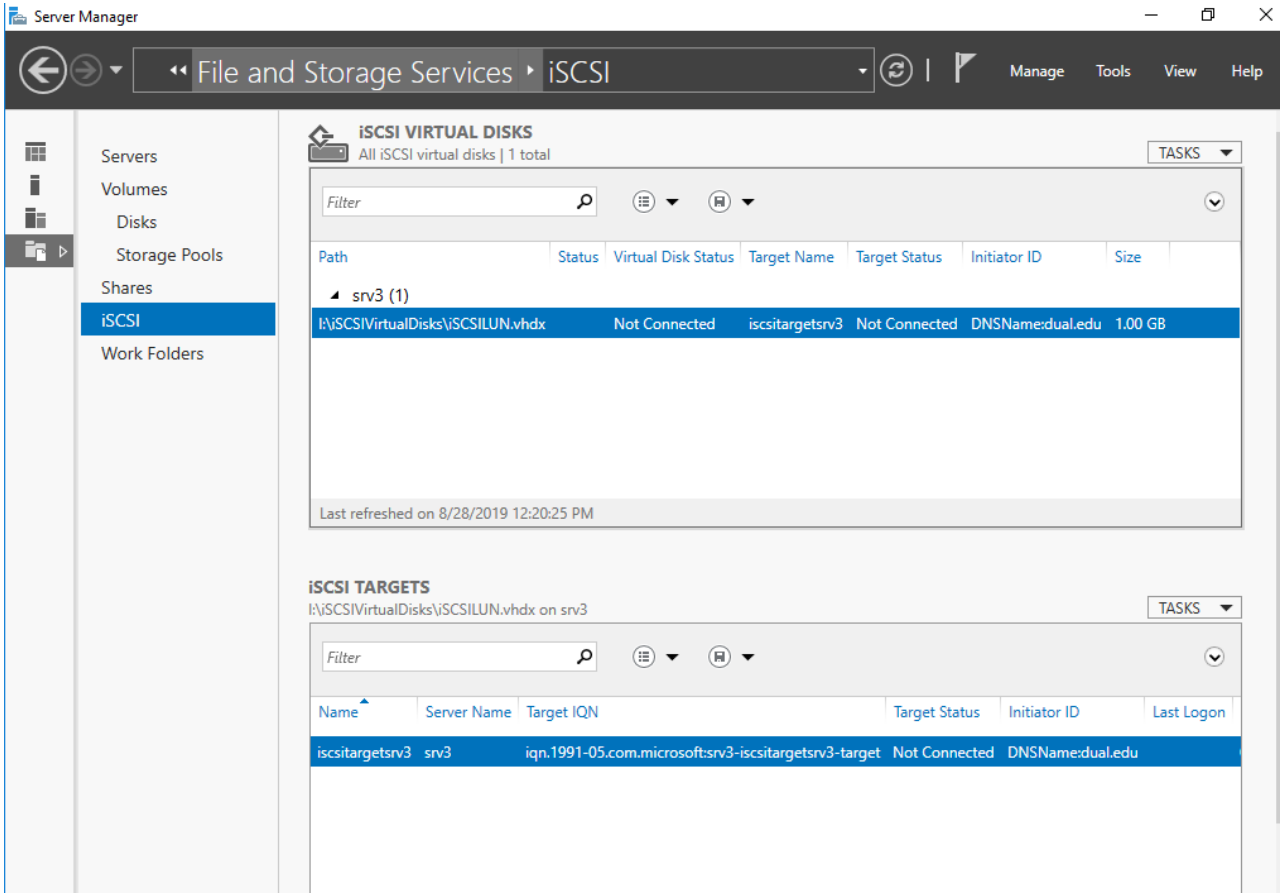
Krok 6

::Konfigurácia iSCSI target role na SRV3



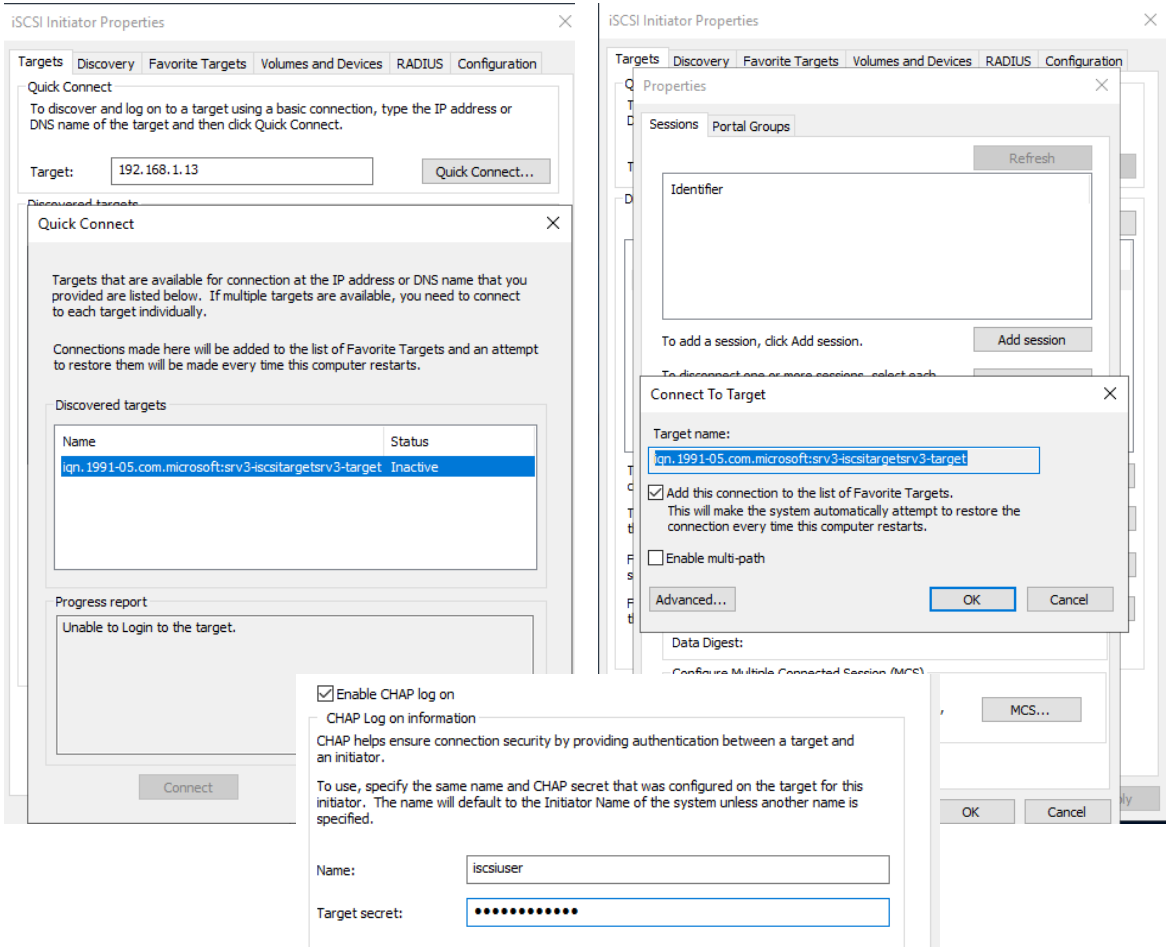
Krok 6

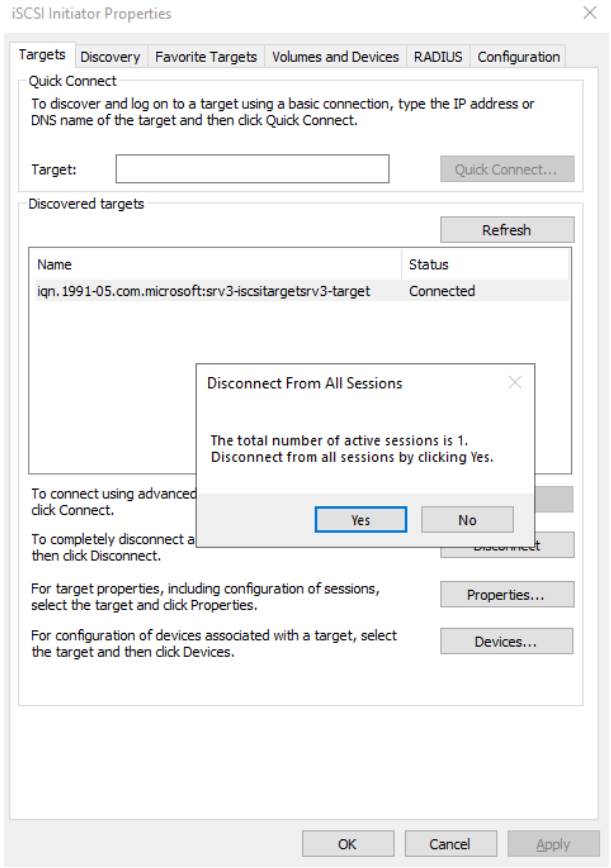
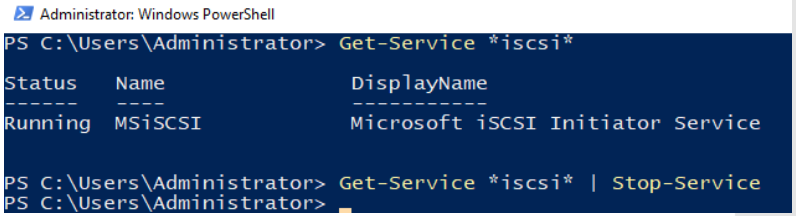
::Konfigurácia iSCSI target role na SRV3



Krok 7

::Test konekcie iSCSILun cez iSCSI Initiator na DC VM



Krok 8

::Disconnect iSCSI LUN and stop iSCSI service on DC VM.