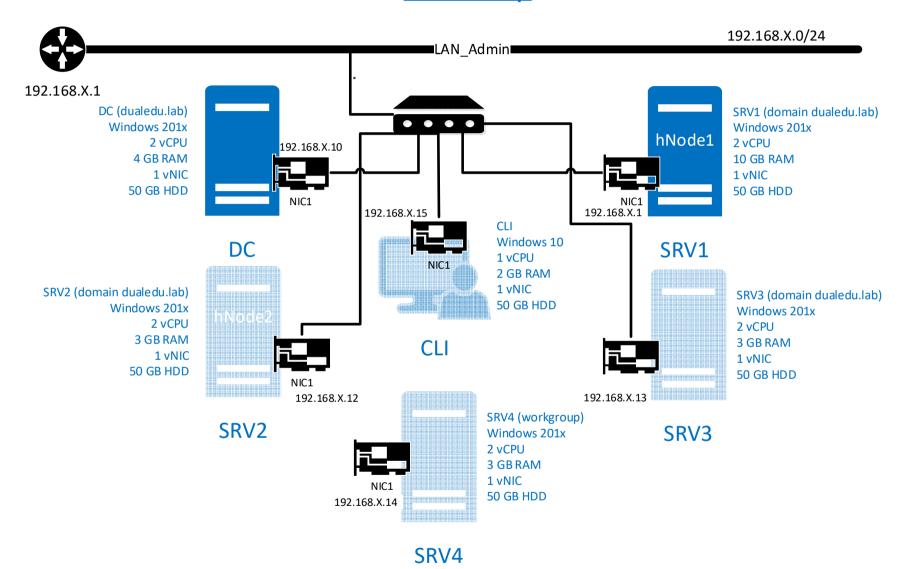
Hyper-V Špecializované IKT systémy Windows

Ing. Stanislav Lukac, PhD.

LAB setup



Inštalačné kroky

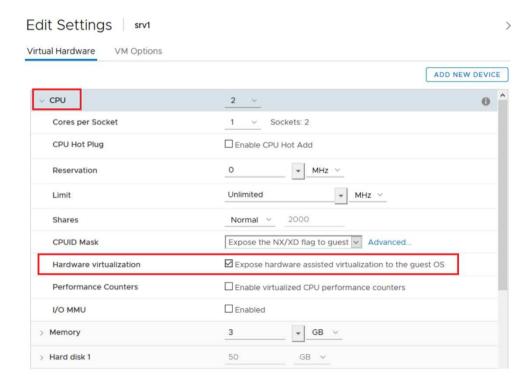
- A. Inštalácia Hyper-V role na SRV1
- B. Konfigurácia hyper-v storage and network
- C. Vytvorenie VM
- D. VM1 manažment a konfigurácia

KrokA:: Inštalácia vHOST (srv1)

Inštalácia vHost

Úloha: Nainštaluje Hyper-V rolu na VM SRV1.

1. Povoliť inštaláciu hypervisora do VM.



Inštalácia vHost

Úloha: Nainštaluje Hyper-V rolu na VM SRV1.

2. Inštalácia role na SRV1 cez Add roles and features

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
PS C:\Users\Administrator> Get-WindowsFeature -Name Hyper*
                                                                                     Install State
Display Name
                                                         Name
                                                                                     -----
 ] Hyper-V
                                                         Hyper-V
                                                                                         Available
              ] Hyper-V GUI Management Tools
                                                         Hyper-V-Tools
                                                                                         Available
               Hyper-V Module for Windows PowerShell
                                                         Hyper-V-PowerShell
                                                                                         Available
```

```
Administrator: Windows PowerShell

Windows PowerShell

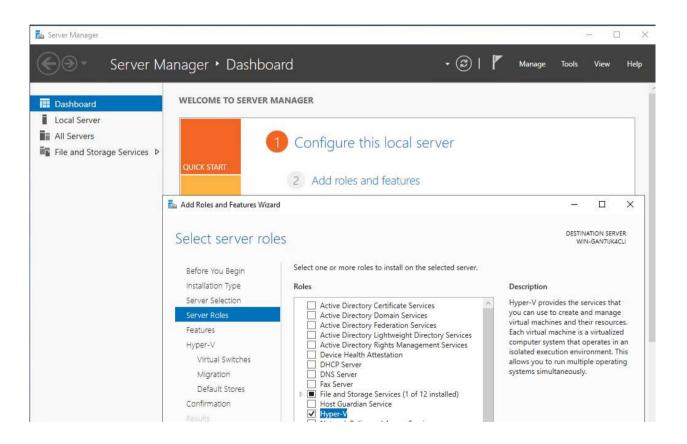
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> Install-WindowsFeature -Name Hyper-V -IncludeAllSubFeature -IncludeManagementTools -Restart_
```

Inštalácia vHost

Úloha: Nainštaluje Hyper-V rolu na VM SRV1.

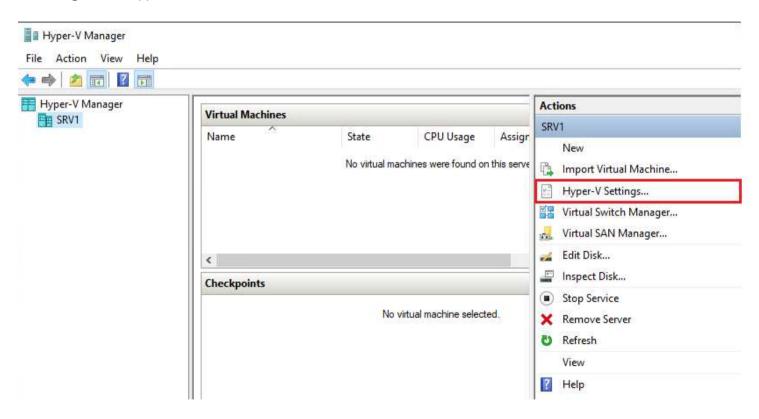
2. Inštalácia role na SRV1 cez Add roles and features



Krok2:: Konfigurácia vHOST (srv1)

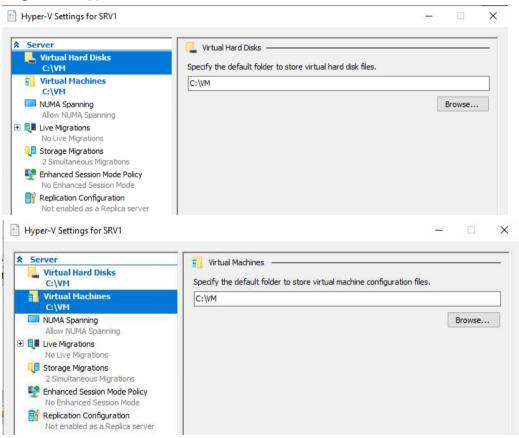
Úloha: Konfigurujte Hyper-V rolu na VM SRV1.

3. Konfigurácia hyperV – Umiestnenie VM súborov do C:\VM



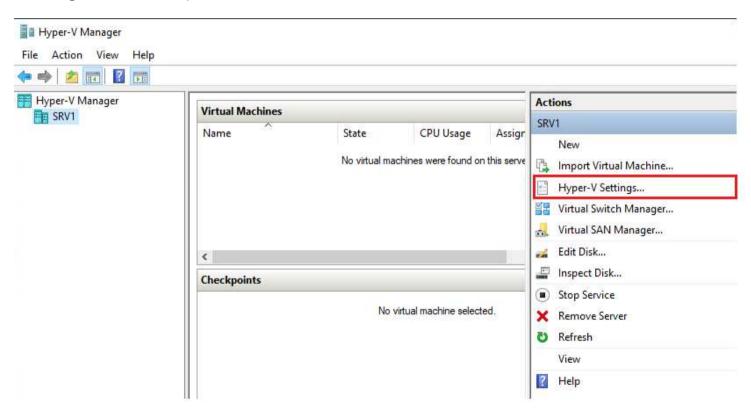
Úloha: Konfigurujte Hyper-V rolu na VM SRV1.

3. Konfigurácia hyperV – Umiestnenie VM súborov do C:\VM



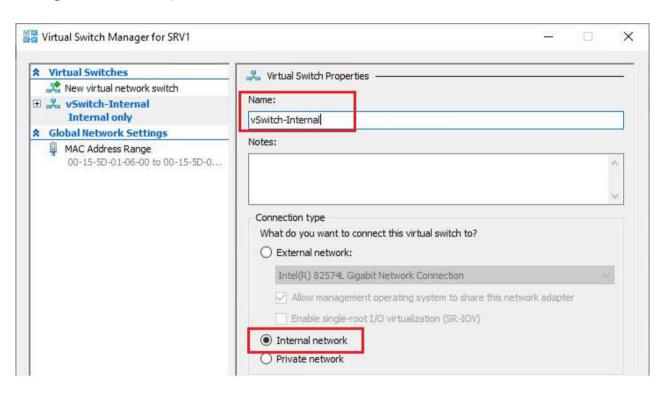
Úloha: Konfigurujte Hyper-V rolu na VM SRV1.

4. Konfigurácia siete – Vytvorenie virtual switch-Internal



Úloha: Konfigurujte Hyper-V rolu na VM SRV1.

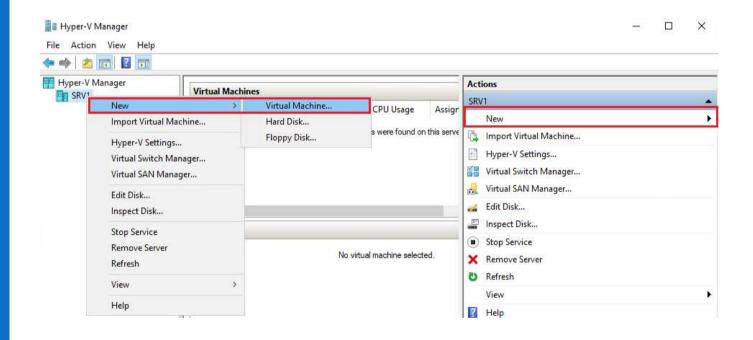
4. Konfigurácia siete – Vytvorenie virtual switch-Internal



Krok3: Inštalácia VM

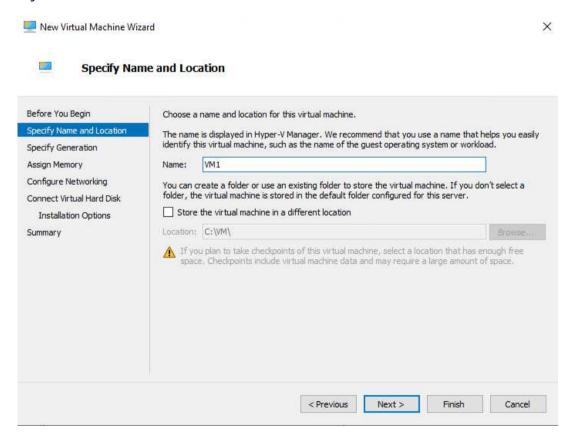
Úloha: Nainštaluje na Hyper-V.

5. Vytvorenie novej VM na SRV41 (Hyper-V host)



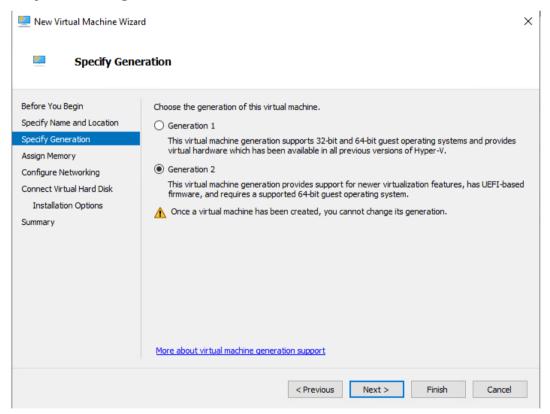
Úloha: Nainštaluje na Hyper-VVM.

6. Vytvorenie novej VM: Zadanie mena VM1



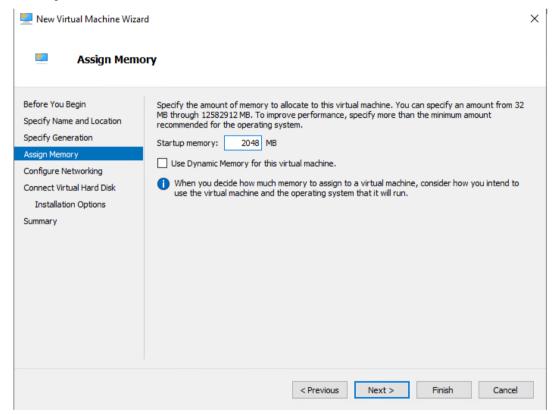
Úloha: Nainštaluje na Hyper-VVM.

7. Vytvorenie novej VM: Voľba generácia VM – Generácia 2



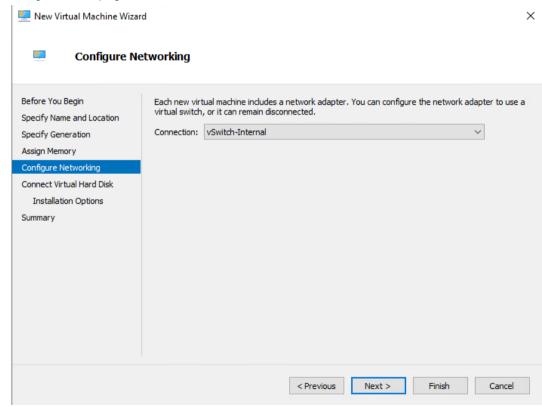
Úloha: Nainštaluje na Hyper-VVM.

8. Vytvorenie novej VM: Nastavenie vRAM na 2048 MB



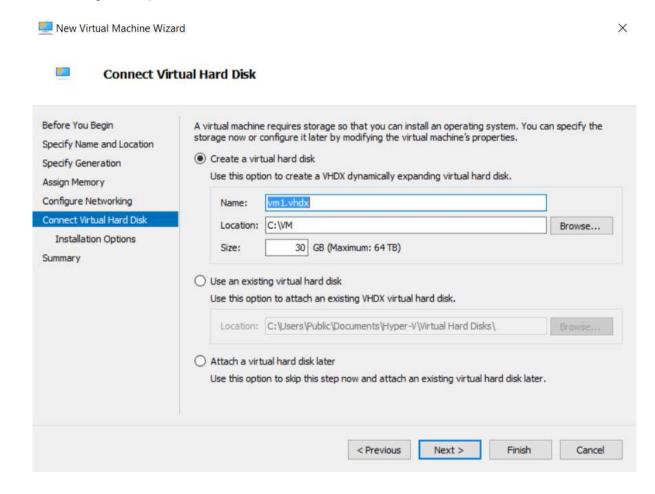
Úloha: Nainštaluje na Hyper-VVM.

9. Vytvorenie novej VM: Pripojenie VM do siete – switch Internal



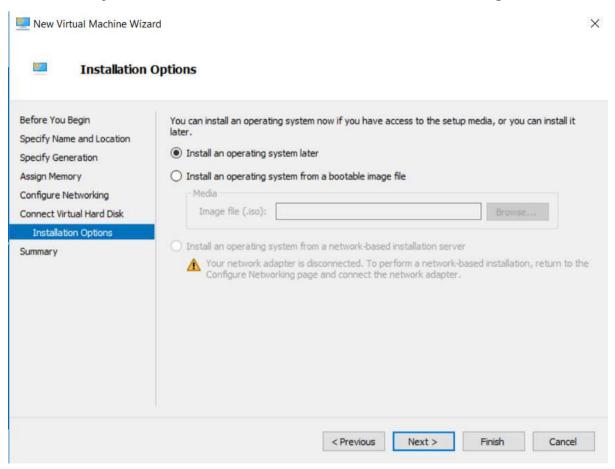
Úloha: Nainštaluje na Hyper-VVM.

10. Vytvorenie novej VM: Vytvorenie disku 30 GB



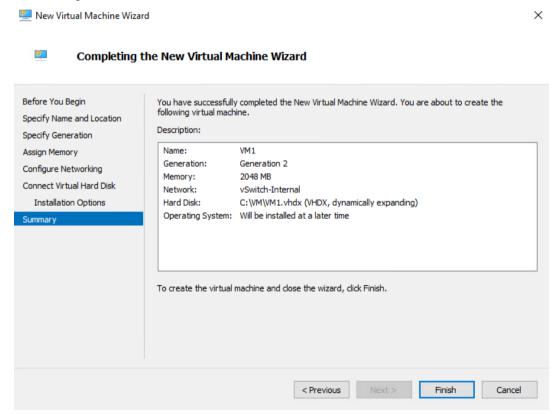
Úloha: Nainštaluje na Hyper-VVM.

11. Vytvorenie novej VM: Voľba inštalácie OS a voľba inštalačného ISO image.



Úloha: Nainštaluje na Hyper-V Windows VM.

12. Vytvorenie novej VM: Sumarizačné window



Úloha: Nainštaluje na Hyper-V Windows VM.

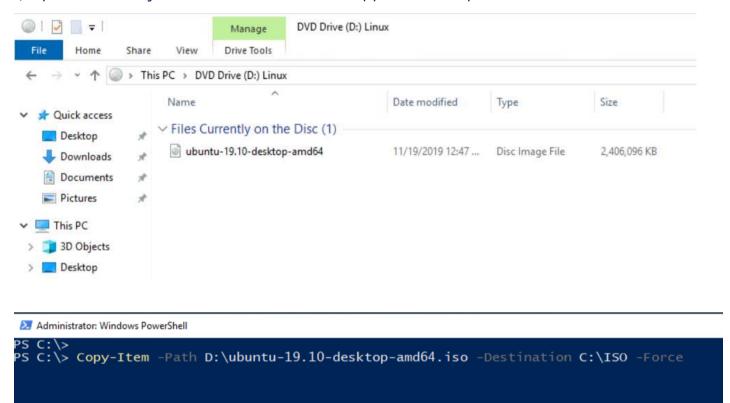
13. Vytvorenie novej VM: Inštalácia Guest OS – Map inštalačného ISO na vHost.

Select File ×



Úloha: Nainštaluje na Hyper-V Windows VM.

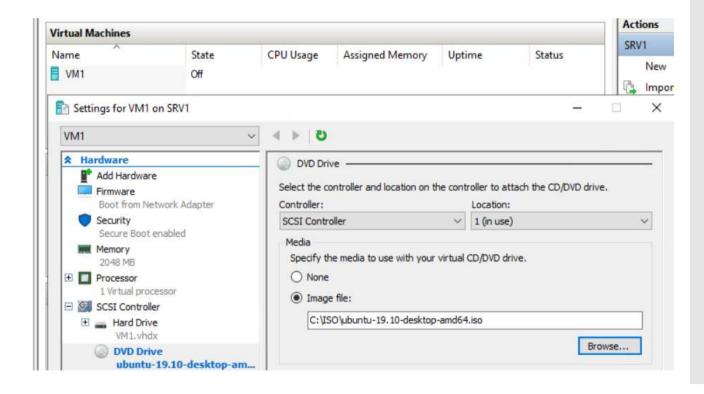
14. Vytvorenie novej VM: Inštalácia Guest OS – Copy ISO z namapovaného DVD-ROM do C:\ISO.



Úloha: Nainštaluje na Hyper-V Windows VM.

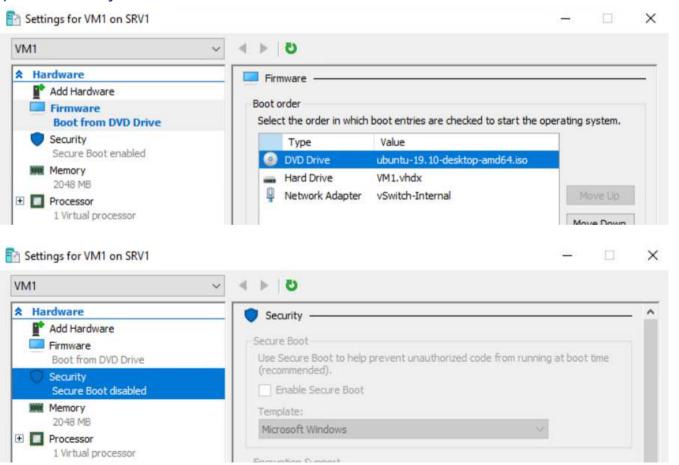
15. Vytvorenie novej VM: Inštalácia Guest OS – map inštalačného média do VM1.

anager



Úloha: Nainštaluje na Hyper-V Windows VM.

16. Vytvorenie novej VM: Inštalácia Guest OS – Nastavenie boot order na VM1 a DISABLE secure boot



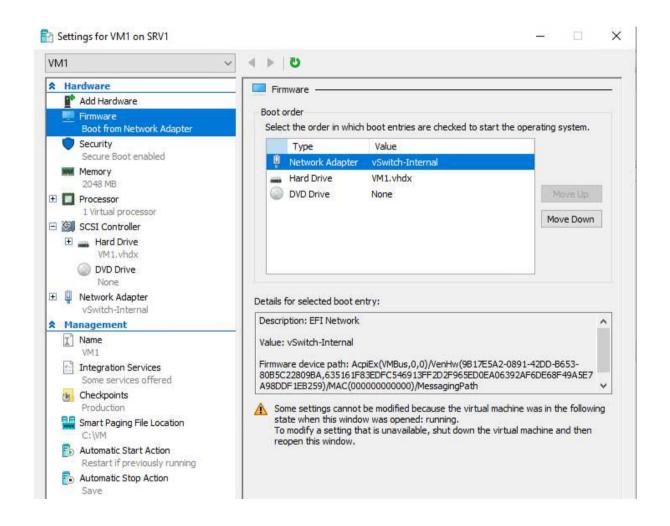
Úloha: Nainštaluje na Hyper-V Windows VM.

17. Vytvorenie novej VM: Inštalácia Guest OS – PowerON a boot VM1 z DVD media a nainštalovanie GUEST OS.

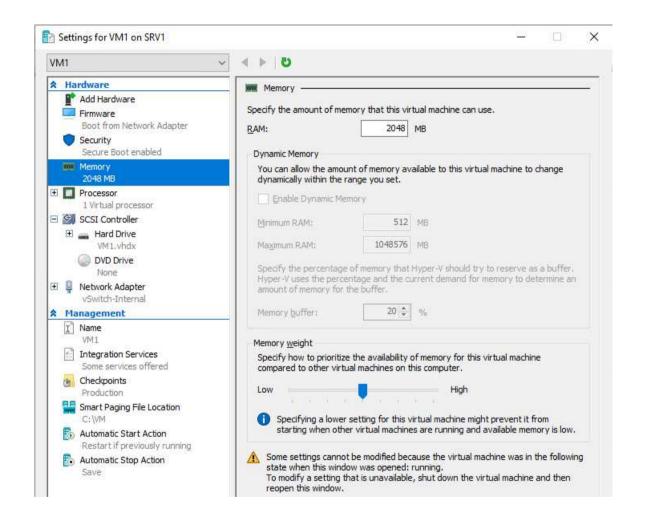


[optional]KrokD: EDITVM settings

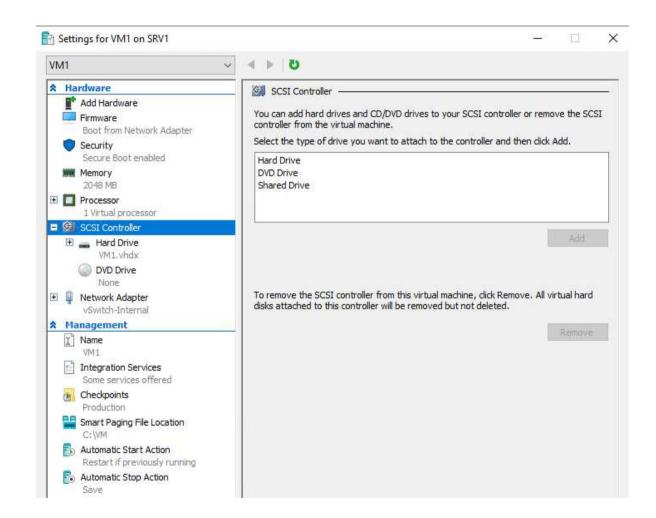
Changing boot order



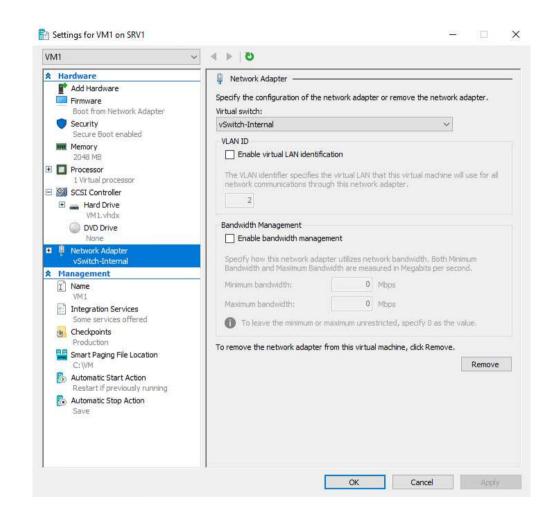
Add vCPU/vRAM



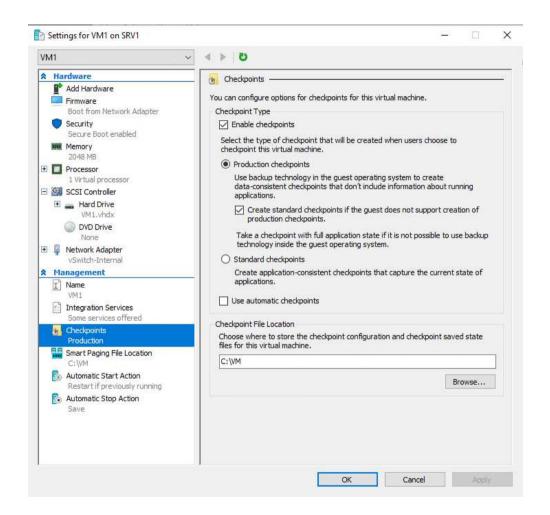
Add vHDD



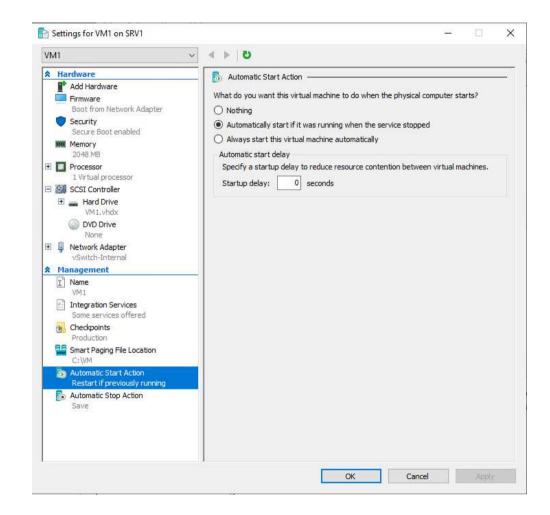
Assign vNIC to network



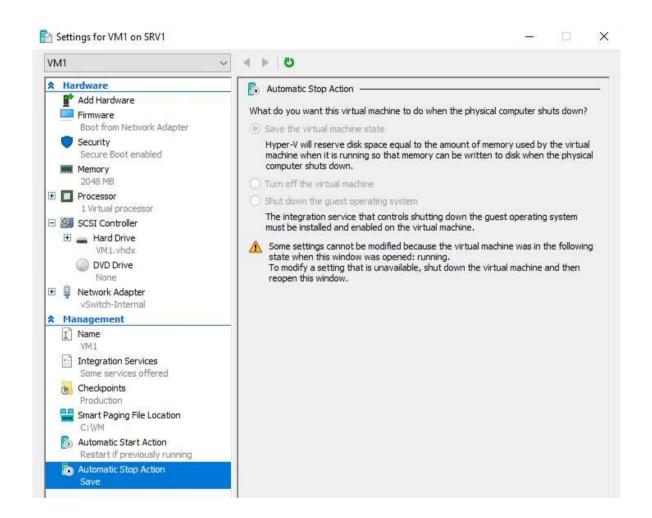
Checkpoint setup



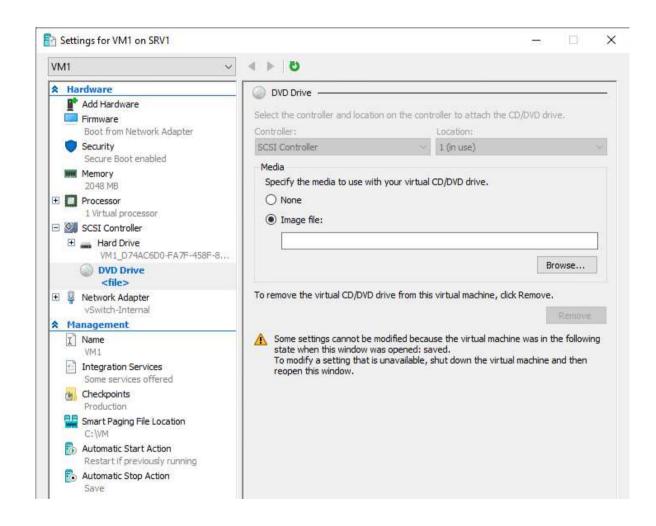
Automatic start action



Automatic stop action

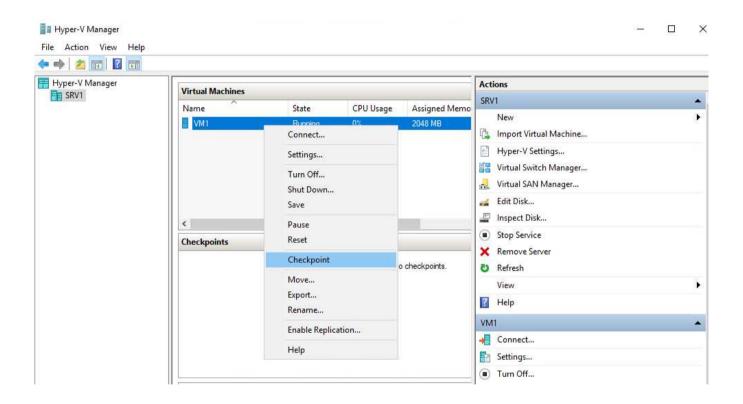


UnMount ISO

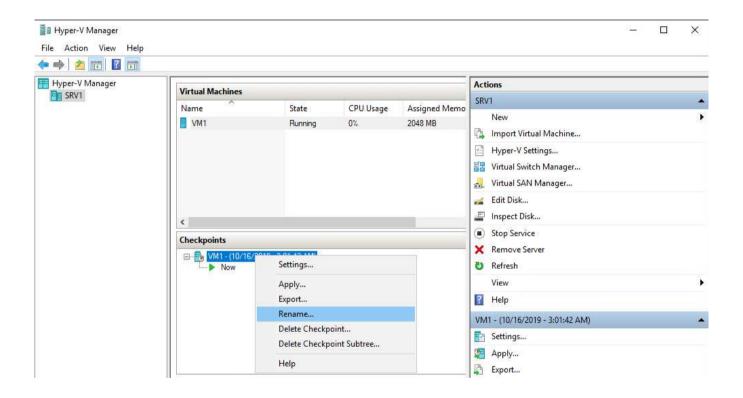


[optional]KrokD: VM Checkpoints

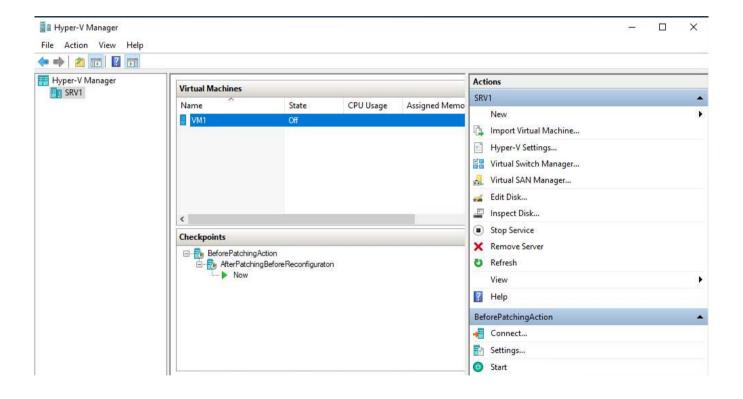
Vytvorenie checkpointu



Vytvorenie checkpointu

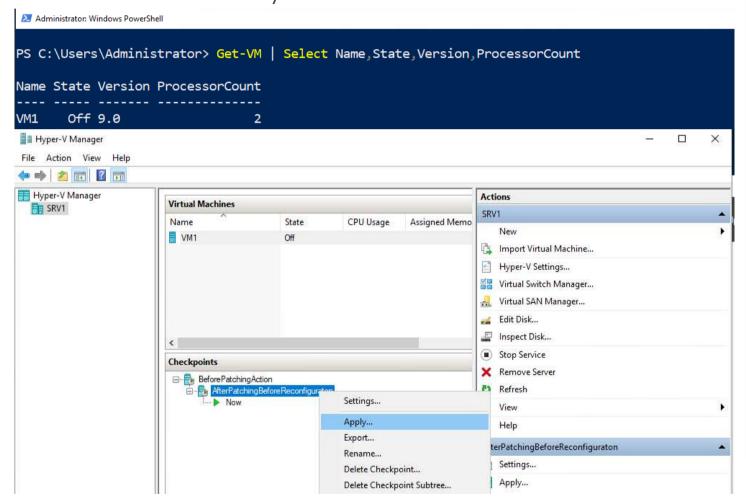


Vytvorenie checkpointu



Restore z checkpoint-u

::Pridanie vCPU a nasledny restore



NEXT

::What's new

https://docs.microsoft.com/en-us/windows-server/virtualization/hyper-v/what-s-new-in-hyper-v-on-windows

https://docs.microsoft.com/en-us/windows-server/get-started-19/whats-new-19

::Hyper-V on Win10

https://docs.microsoft.com/en-us/virtualization/hyper-v-on-windows/about/