

1. Инсталация на софтуер за виртуализация
 - a. Разрешаване на виртуализацията от биоса
 - b. Стартиране на скрипт през potepad със екстеншън .bat за да инсталирам инсталационните файлове на hyper-v на windows 11 home edition

```
pushd "%~dp0"

dir /b %SystemRoot%\servicing\Packages\*Hyper-V*.mum >hyper-v.txt

for /f %i in ('findstr /i . hyper-v.txt 2^>nul') do dism /online /norestart /add-package:"%SystemRoot%\servicing\Packages\%i"

del hyper-v.txt

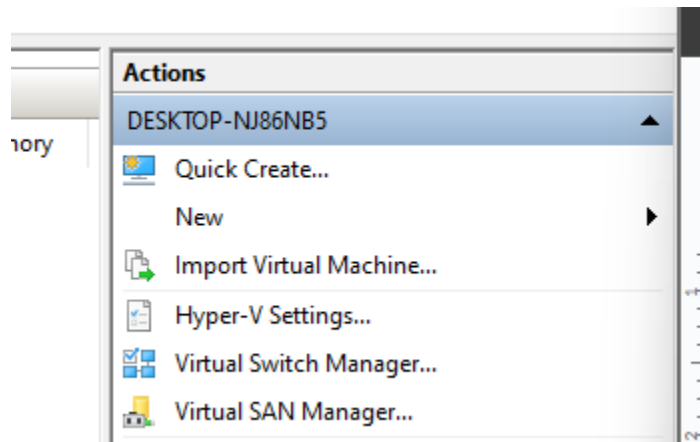
Dism /online /enable-feature /featurename:Microsoft-Hyper-V -All /LimitAccess /ALL

pause
```

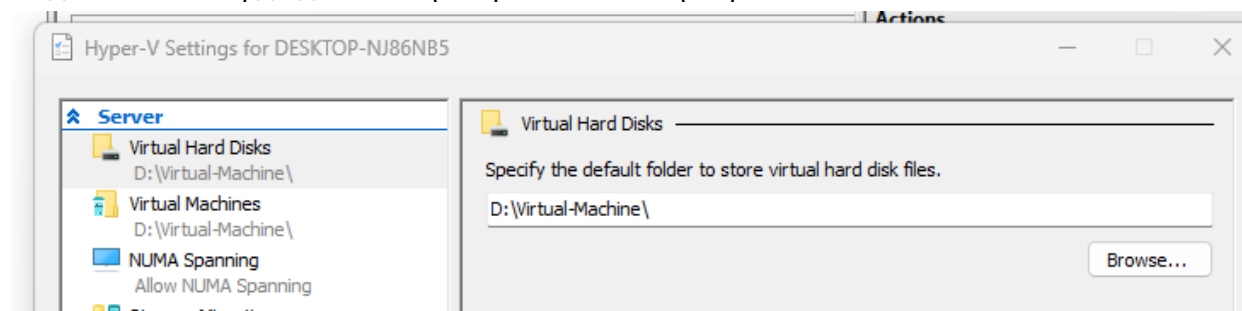
- c. Инсталация на Hyper-V със power shell script и рестартиране

```
Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V -All
```

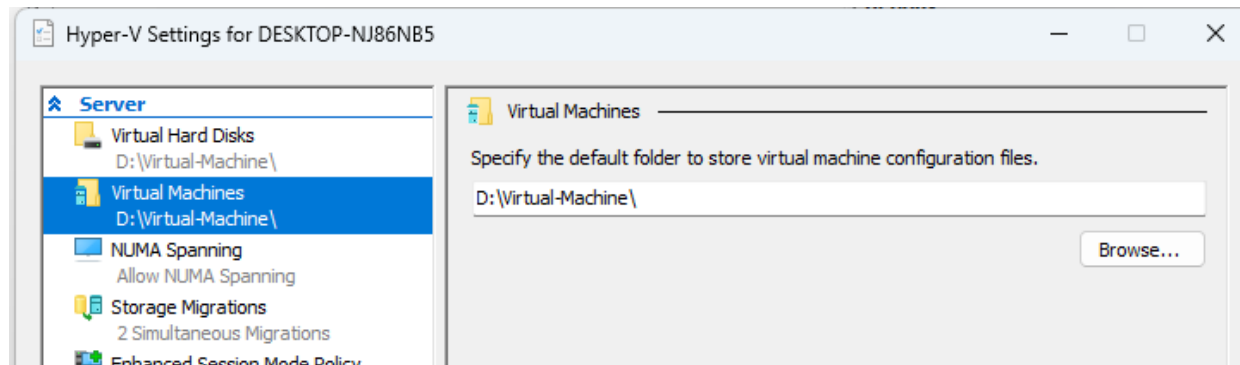
2. Конфигурация на Виртуализацията и сваляне на windows server 2019.iso
 - a. <https://www.microsoft.com/en-us/evalcenter/download-windows-server-2019>
сваляне на windows server от линка.
 - b. Настройка на Hyper-V: Actions>Hyper-V Settings.



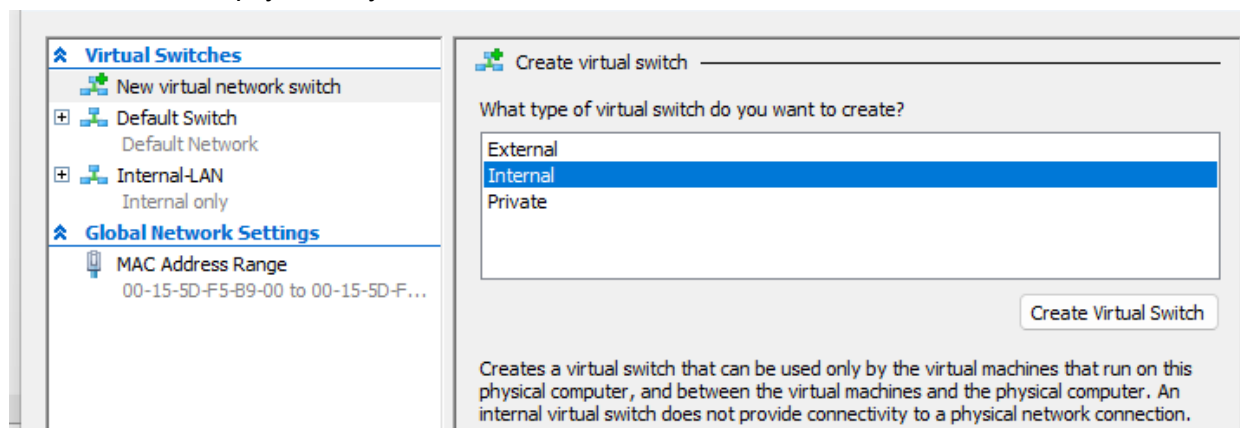
- c. Задаване на твърдо дисково пространство за сървъра



d. Задаване местоположение на сървъра



Създаване на виртуален суич.



Задаване на име и параметри на суича според нуждите.

Virtual Switch Manager for DESKTOP-NJ86NB5

Virtual Switches

- New virtual network switch
- Default Switch
Default Network
- Internal-LAN
Internal only
- New Virtual Switch
Internal only**

Global Network Settings

- MAC Address Range
00-15-5D-F5-B9-00 to 00-15-5D-F...

Virtual Switch Properties

Name:
New Virtual Switch

Notes:

Connection type
What do you want to connect this virtual switch to?

☐ External network:
Realtek 8821CE Wireless LAN 802.11ac PCI-E NIC

☒ Allow management operating system to share this network adapter

☒ Internal network

☐ Private network

VLAN ID

☐ Enable virtual LAN identification for management operating system

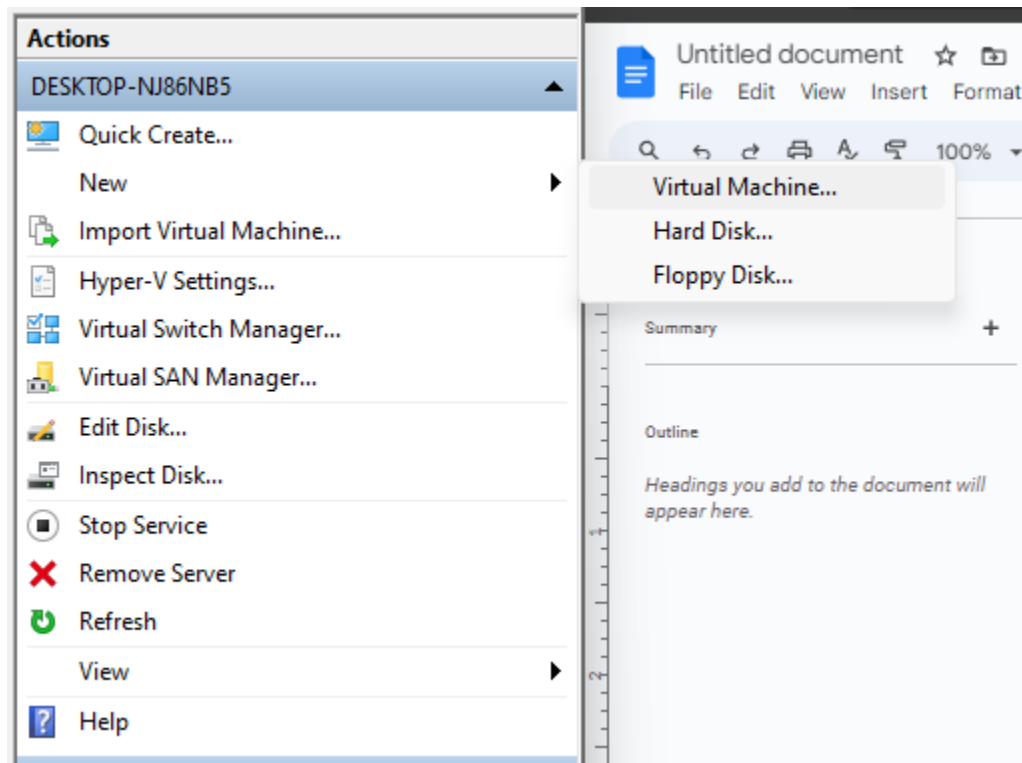
The VLAN identifier specifies the virtual LAN that the management operating system will use for all network communications through this network adapter. This setting does not affect virtual machine networking.

2

Remove

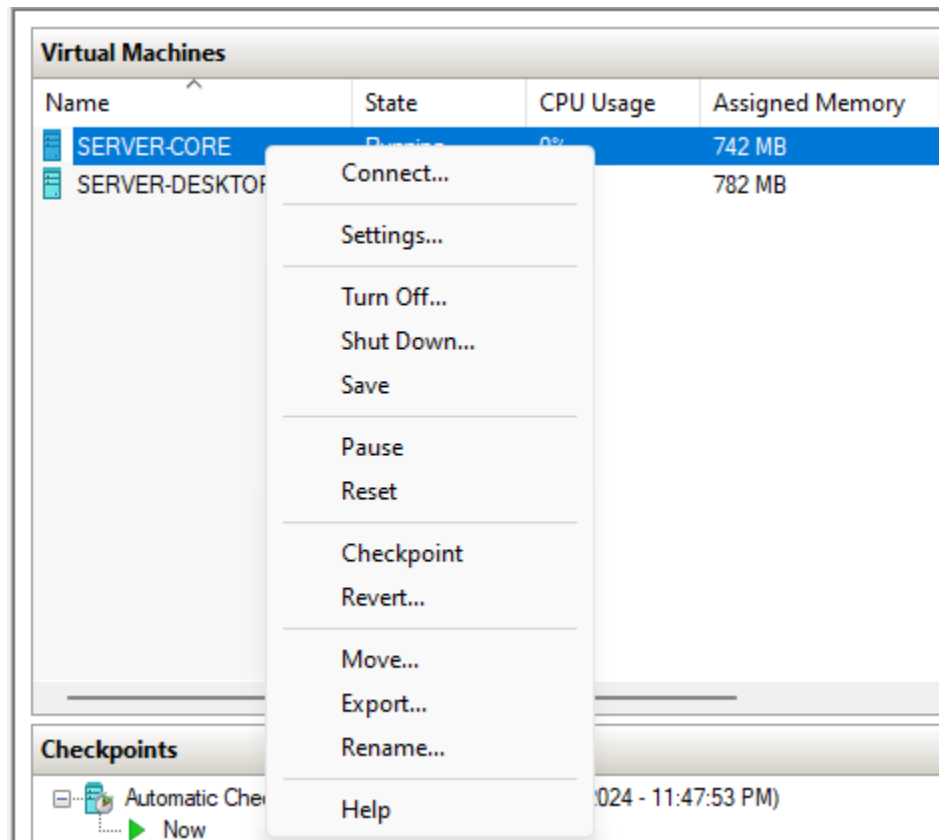
OK Cancel Apply

- e. Създаване на нова виртуална машина. Actions>New>Virtual Machine.

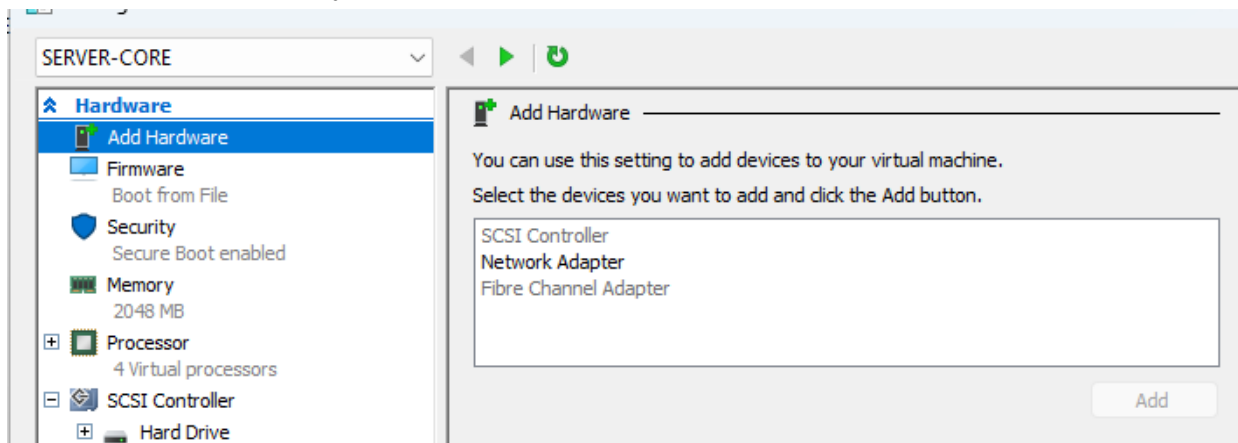


- f. Next>Change Default Name > Next> Check Generation 2 > Next> Enter desired Ram memory size for the virtual machine > Next>Chose default switch or custom made one > Next>Choose storage size and location for the virtual drive> Next>Next>Finish

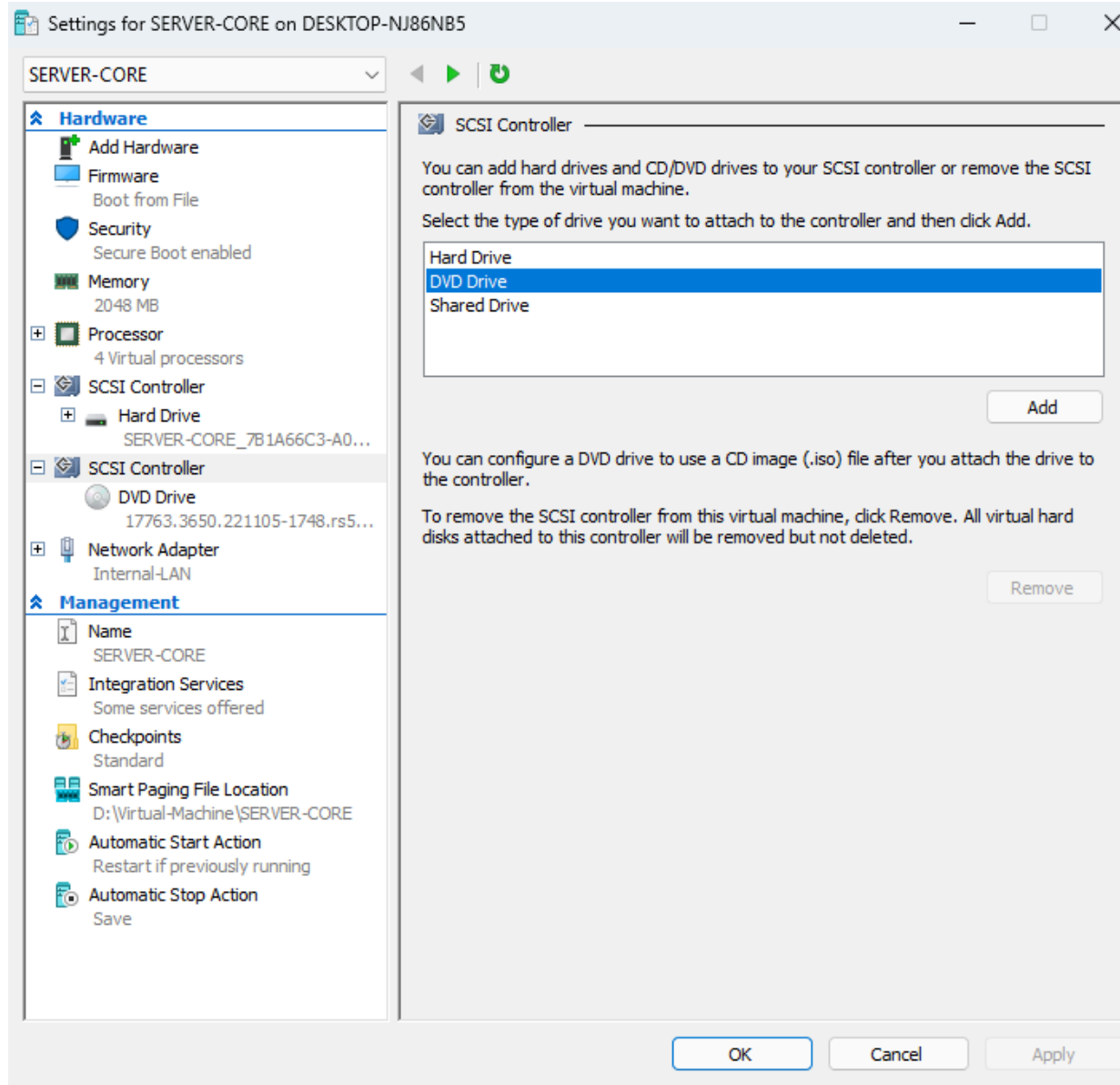
g. Настройка на виртуалният сървър. Server-name > Settings



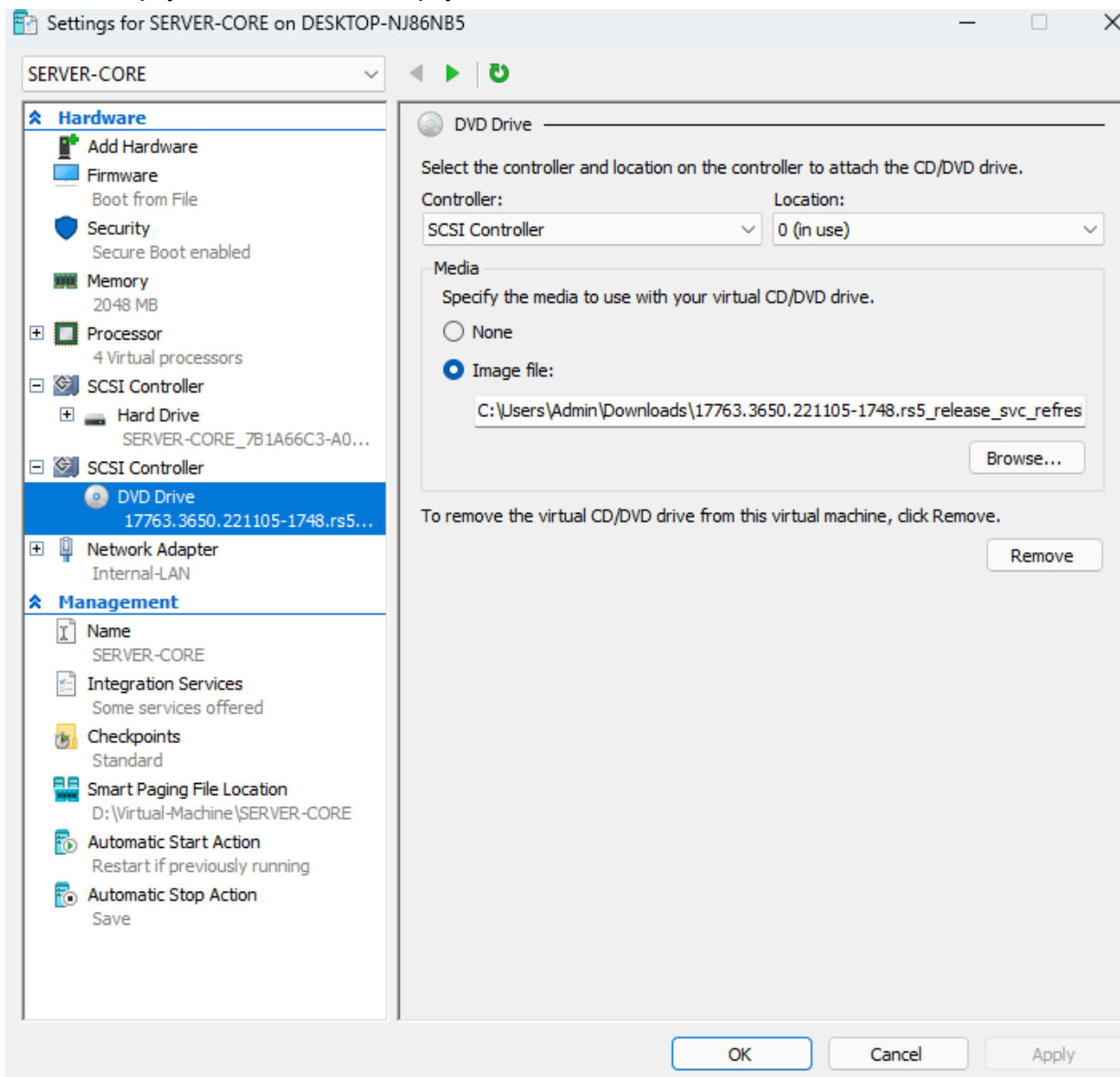
h. Add hardware> SCSI Controller > Add > Apply , добавяме контролера за да можем да добавим виртуалния dvd чрез него



- i. Настройка на SCSI Controller> DVD Drive>Add - добавяме виртуален dvd rom

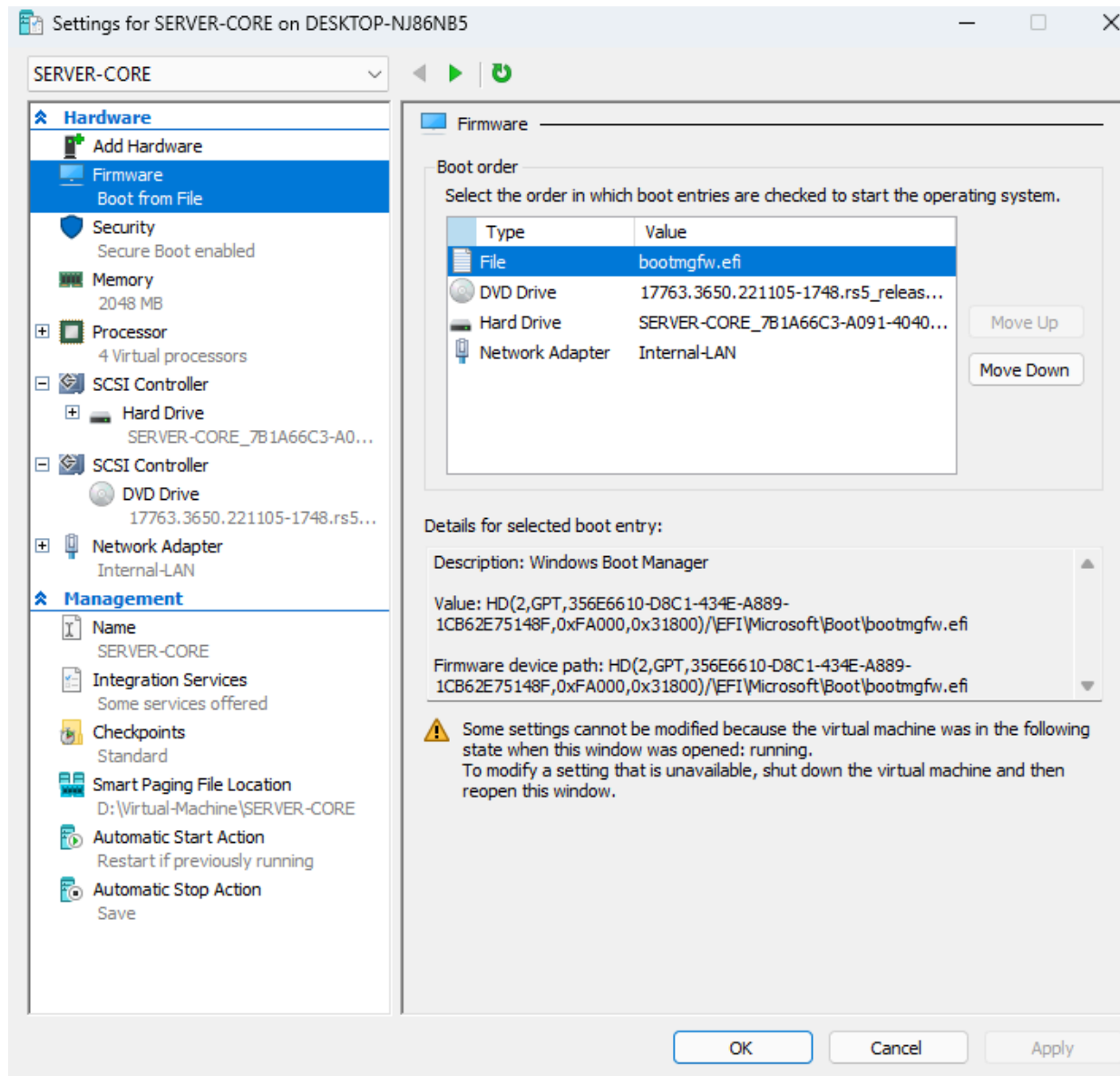


- j. Настройка на DVD Drive>Image file>Path to windows server iso file>Apply -
слагаме виртуалният диск във виртуалният DVD Drive



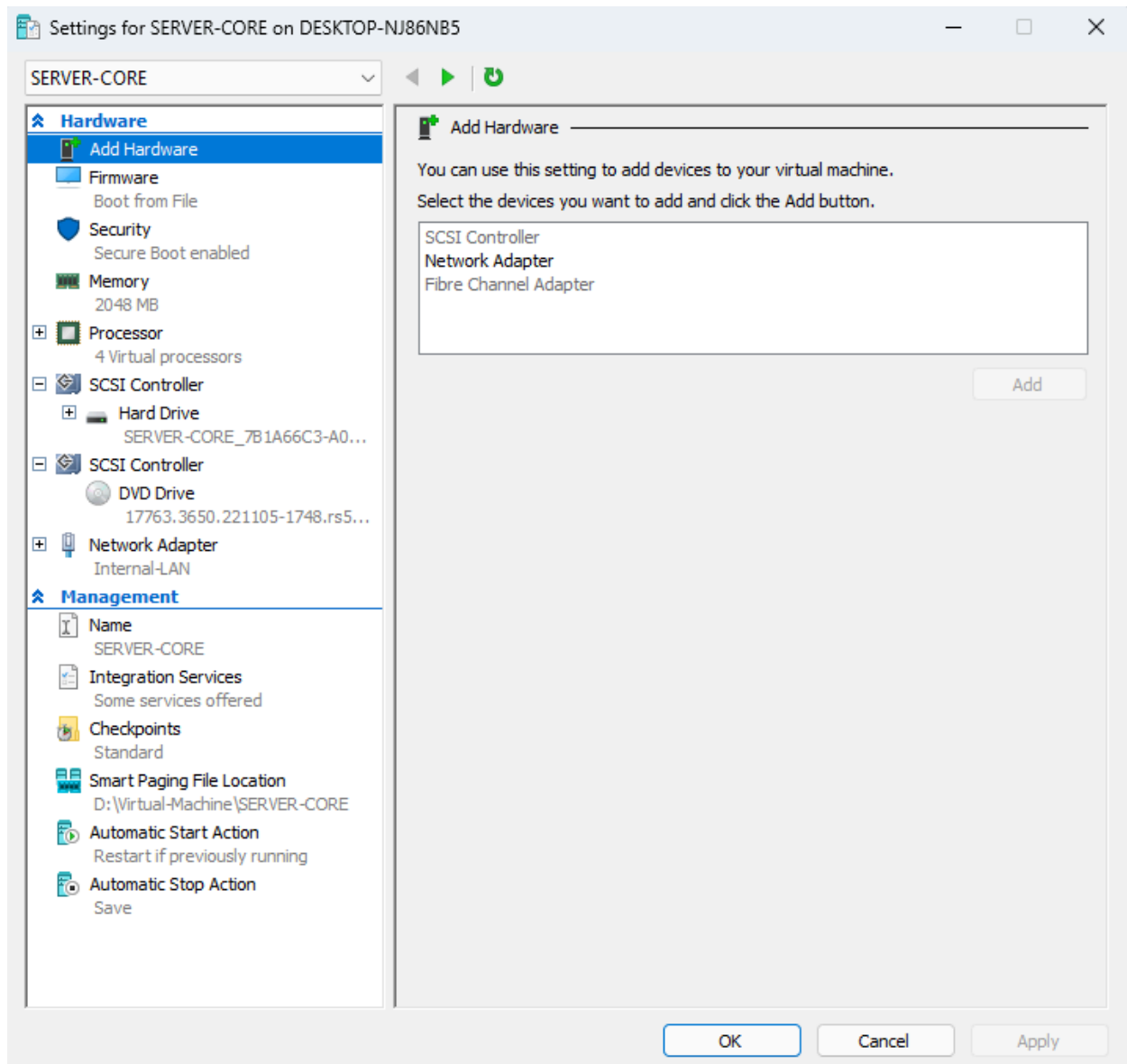
- k. Настройка на Firmware> 1. DVD Drive > 2.Hard Drive > 3.Network Adapter>
Apply - задаване на приоритет откъде да зарежда машината при
стартване, слагаме на 1 място dvd защото от него ще инсталираме

Windows Server.



- I. Стартиране на машината с бутон connect следва стандартна инсталация на windows server избирайки между вариант core или GUI , core варианта е за предпочитане тъй като е по лек и по сигурен.

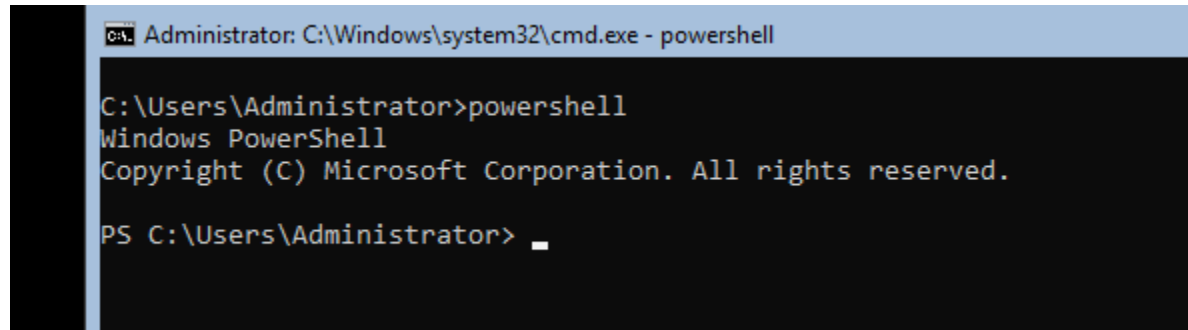
Virtual Machine specs



Post installation tasks

1. Set name of the host to : SRV-CORE;

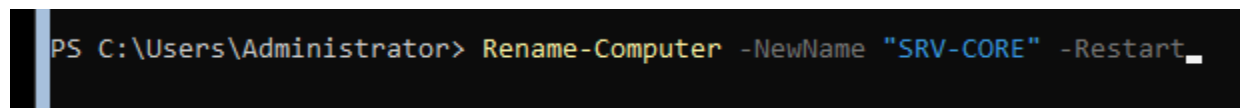
Open power shell



```
Administrator: C:\Windows\system32\cmd.exe - powershell

C:\Users\Administrator>powershell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> _
```



```
PS C:\Users\Administrator> Rename-Computer -NewName "SRV-CORE" -Restart_
```

2. Set the workgroup to WSALAB

sconfig>1>W>WSALAB

Microsoft (R) Windows Script Host Version 5.812
Copyright (C) Microsoft Corporation. All rights reserved.

Inspecting system...

Server Configuration

- | | |
|---------------------------------|----------------------|
| 1) Domain/Workgroup: | Workgroup: WORKGROUP |
| 2) Computer Name: | SRV-CORE |
| 3) Add Local Administrator | |
| 4) Configure Remote Management | Enabled |
| 5) Windows Update Settings: | DownloadOnly |
| 6) Download and Install Updates | |
| 7) Remote Desktop: | Disabled |
| 8) Network Settings | |
| 9) Date and Time | |
| 10) Telemetry settings | Unknown |
| 11) Windows Activation | |
| 12) Log Off User | |
| 13) Restart Server | |
| 14) Shut Down Server | |
| 15) Exit to Command Line | |

Enter number to select an option: 15.

Administrator: C:\Windows\system32\cmd.exe - powershell

- | | |
|---------------------------------|----------------------|
| 1) Domain/Workgroup: | Workgroup: WORKGROUP |
| 2) Computer Name: | SRV-CORE |
| 3) Add Local Administrator | |
| 4) Configure Remote Management | Enabled |
| 5) Windows Update Settings: | DownloadOnly |
| 6) Download and Install Updates | |
| 7) Remote Desktop: | Disabled |
| 8) Network Settings | |
| 9) Date and Time | |
| 10) Telemetry settings | Unknown |
| 11) Windows Activation | |
| 12) Log Off User | |
| 13) Restart Server | |
| 14) Shut Down Server | |
| 15) Exit to Command Line | |

Enter number to select an option: 1

Change Domain/Workgroup Membership

Join (D)omain or (W)orkgroup? (Blank=Cancel) w
Name of workgroup to join: WSALAB

Joining WSALAB...

Workgroup

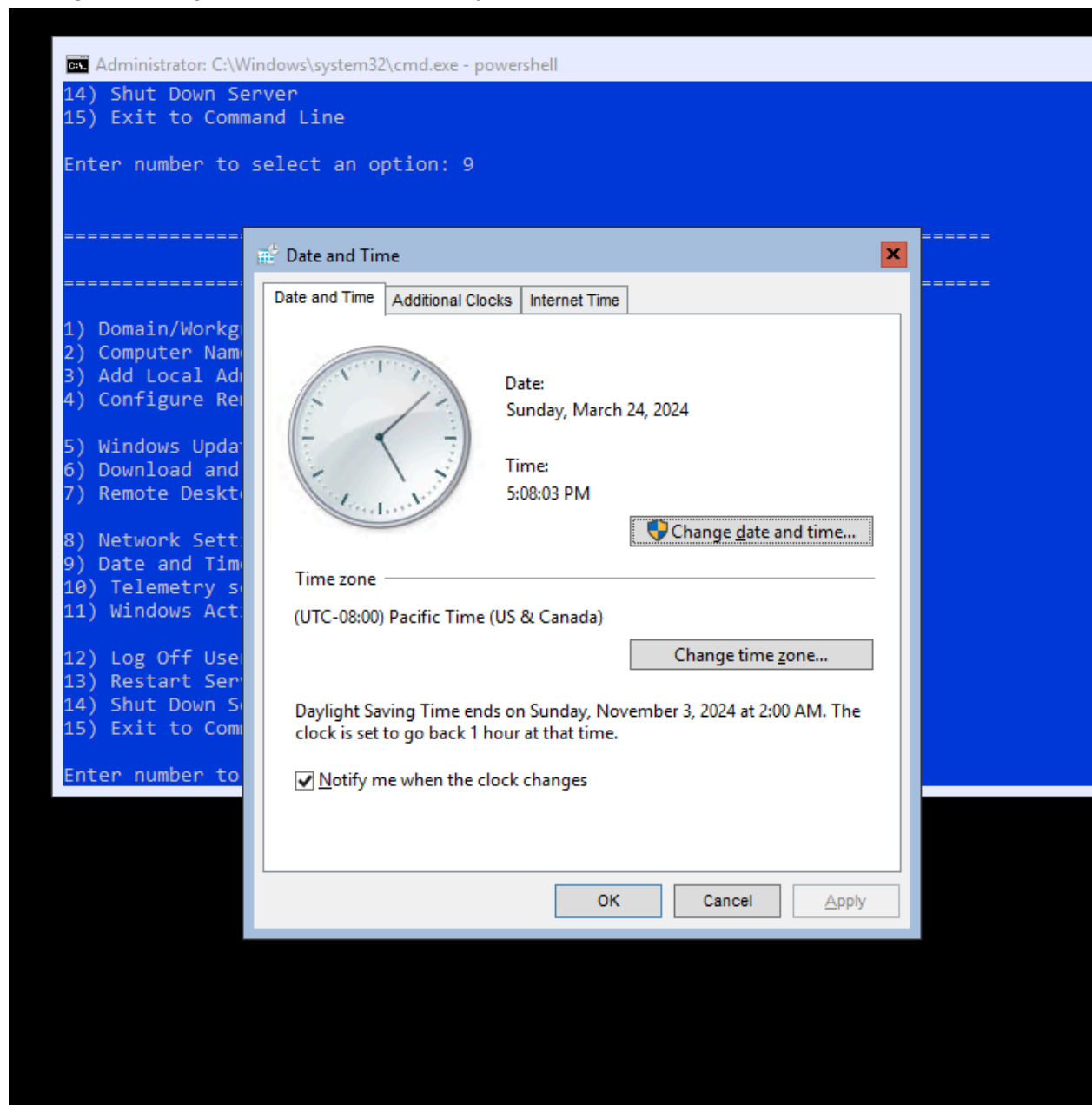


Welcome to workgroup: WSALAB

OK

3. Change the time zone to Bulgaria

sconfig>9>Change time zone>Sofia>Apply



4. Create new administrator user named labadmin with password Password1 and full name Lab Admin

sconfig>3 > enter name> enter password 2 times

In a workgroup environment, specify username.

Enter account to join local Administrators group (Blank=Cancel): labadmin

Proof

```
Administrator: C:\Windows\system32\cmd.exe - powershell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> Get-LocalGroupMember -Group "Administrators"

ObjectClass Name                PrincipalSource
-----
User          SRV-CORE\Administrator Local
User          SRV-CORE\labadmin    Local

PS C:\Users\Administrator>
PS C:\Users\Administrator> Get-Date

Monday, March 25, 2024 2:31:07 AM

PS C:\Users\Administrator> Get-TimeZone

Id                : FLE Standard Time
DisplayName       : (UTC+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius
StandardName      : FLE Standard Time
DaylightName      : FLE Daylight Time
BaseUtcOffset     : 02:00:00
SupportsDaylightSavingTime : True

PS C:\Users\Administrator> S_
```