STREDNÁ PRIEMYSELNÁ ŠKOLA ELEKTROTECHNICKÁ
PREŠOV

III.SB - 19

ŠK. R. 2018 – 2019

SERVEROVÉ TECHNOLÓGIE

ZADANIE

prvá časť

PETER MELNICEK

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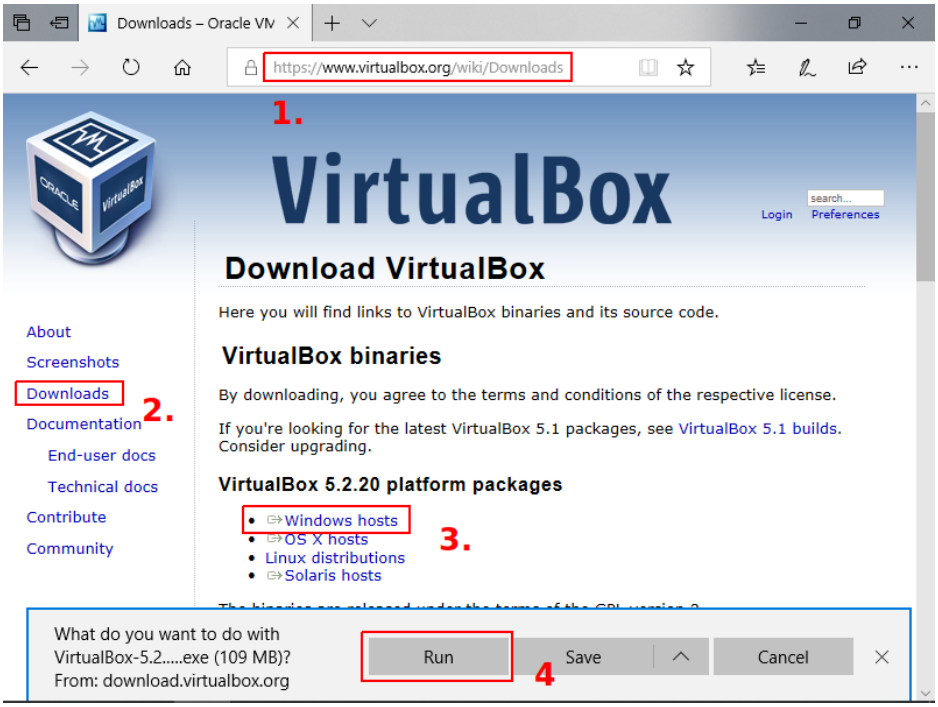
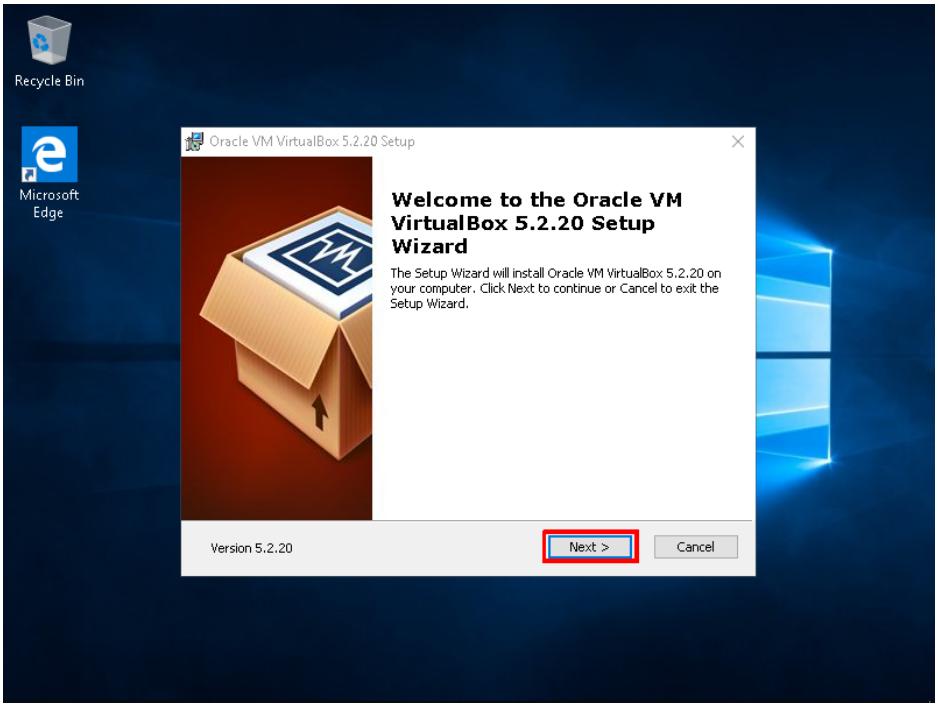
1 Inštalácia a nastavenie VirtualBoxu

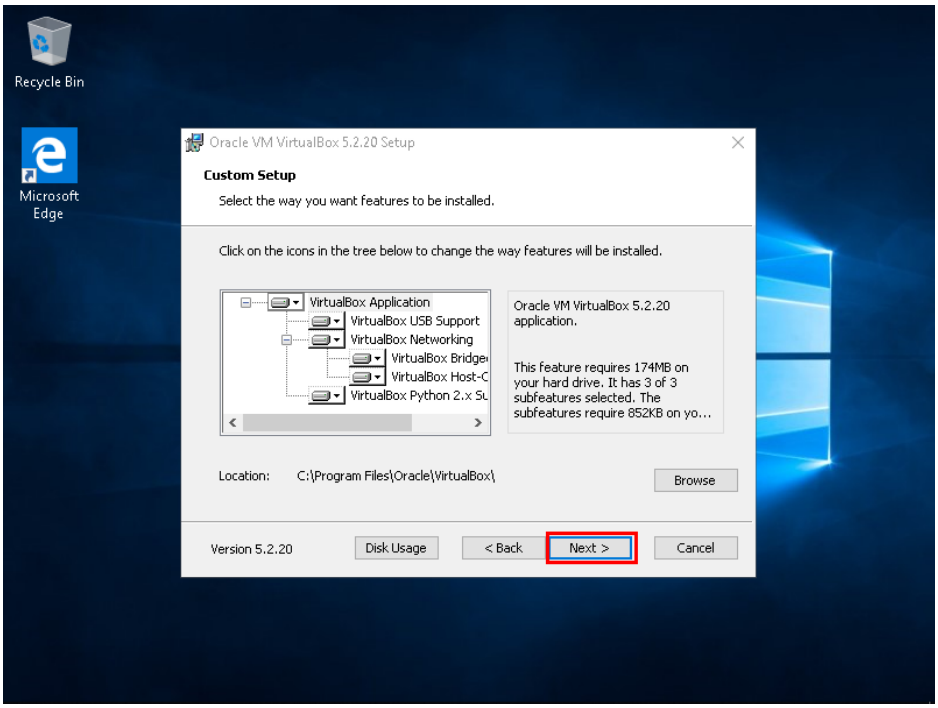
Na stranke www.virtualbox.org stiahneme a spustime instalator virtualboxu



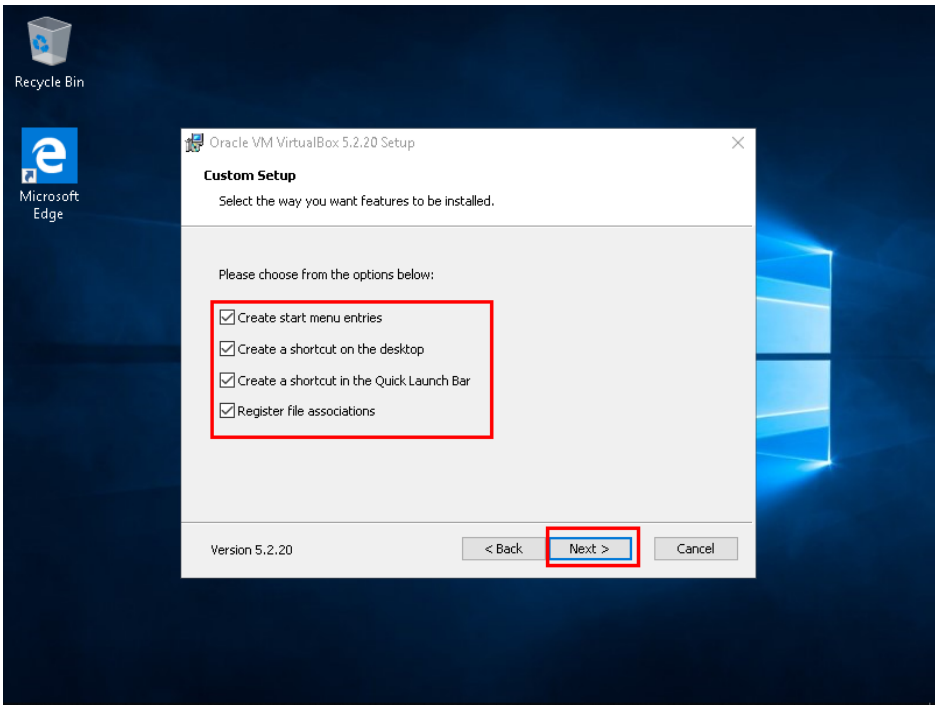
Next



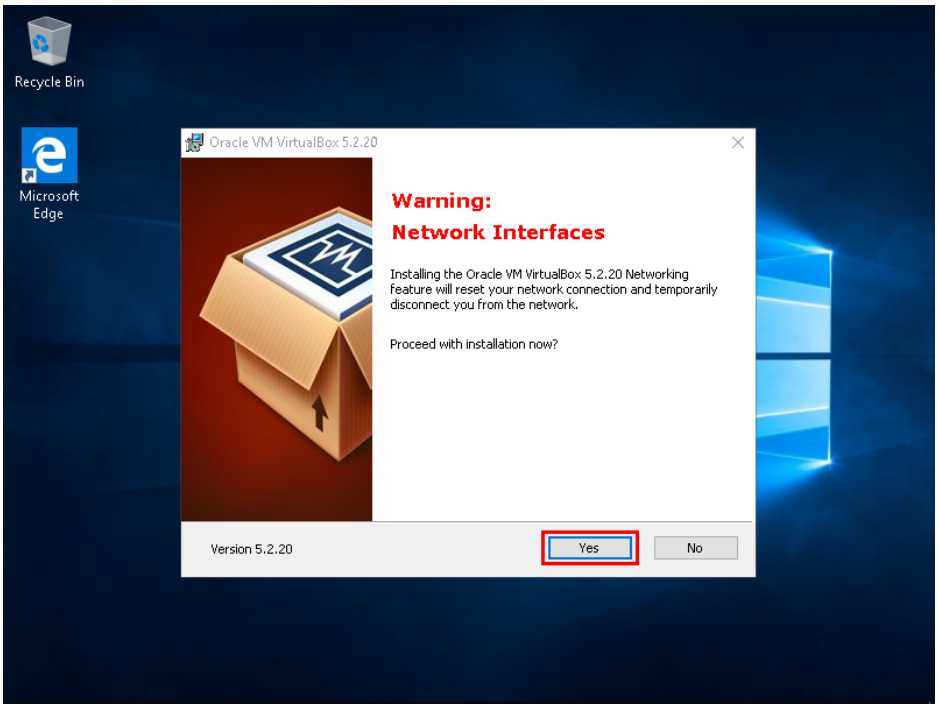
Next



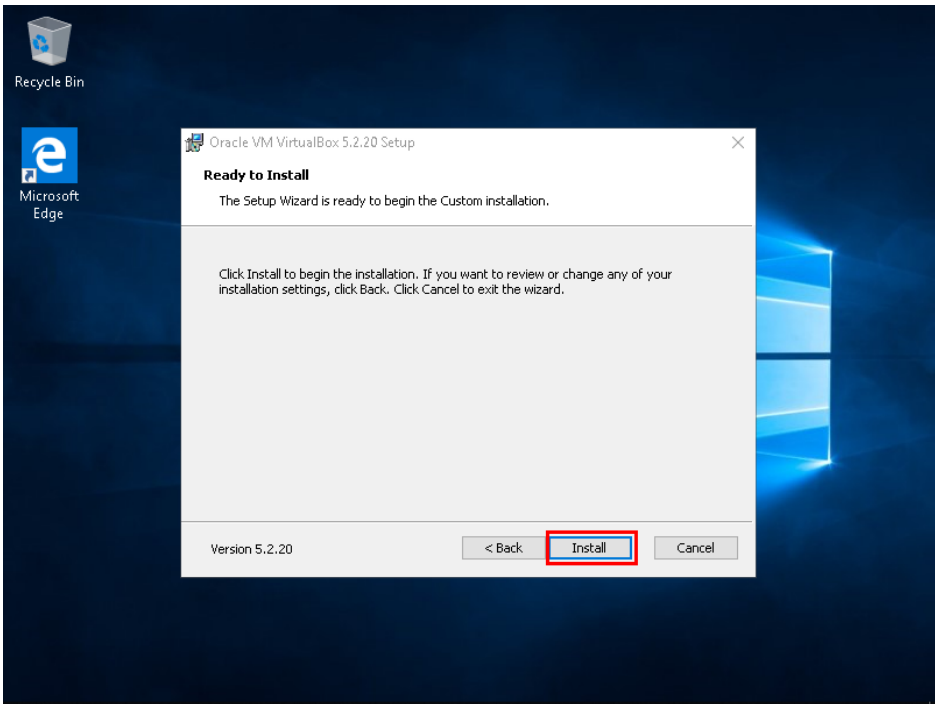
Vsetky checkboxy nechame zaskrtnute a pokrecujeme s next



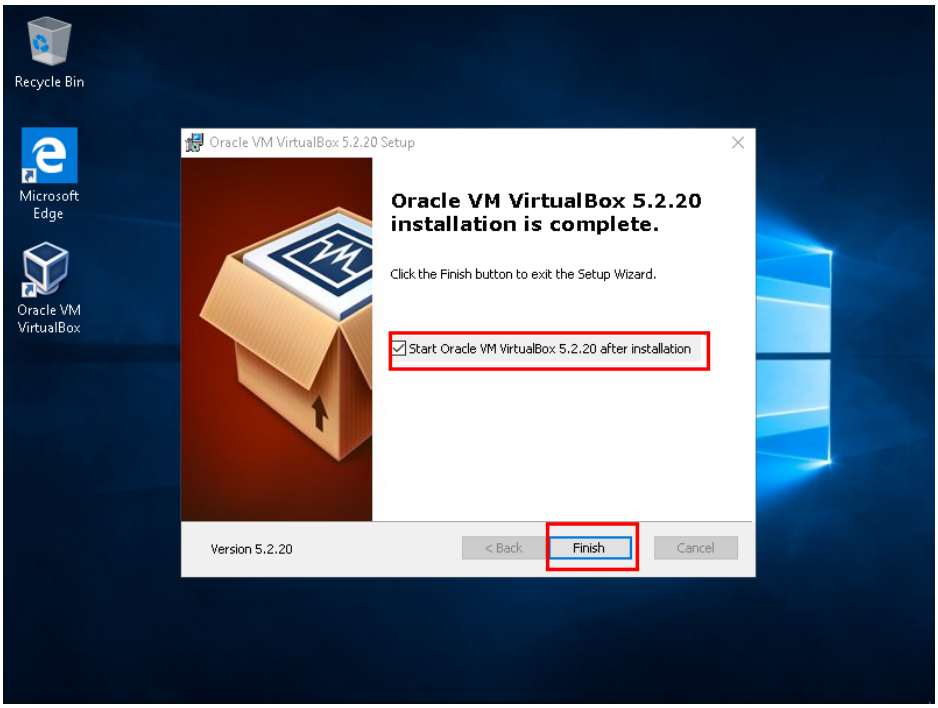
Yes


Recycle Bin
Microsoft Edge
Oracle VM VirtualBox 5.2.20
Warning:
Network Interfaces
Installing the Oracle VM VirtualBox 5.2.20 Networking feature will reset your network connection and temporarily disconnect you from the network.
Proceed with installation now?
Version 5.2.20
Yes
No

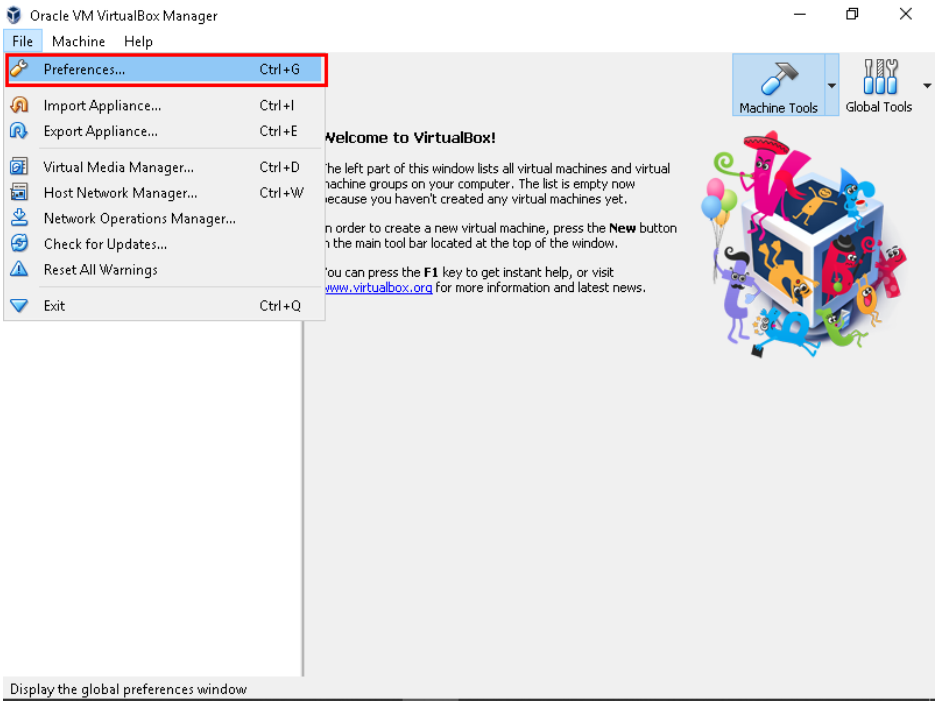
Install


Recycle Bin
Microsoft Edge
Oracle VM VirtualBox 5.2.20 Setup
Ready to Install
The Setup Wizard is ready to begin the Custom installation.
Click Install to begin the installation. If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
Version 5.2.20
< Back
Install
Cancel

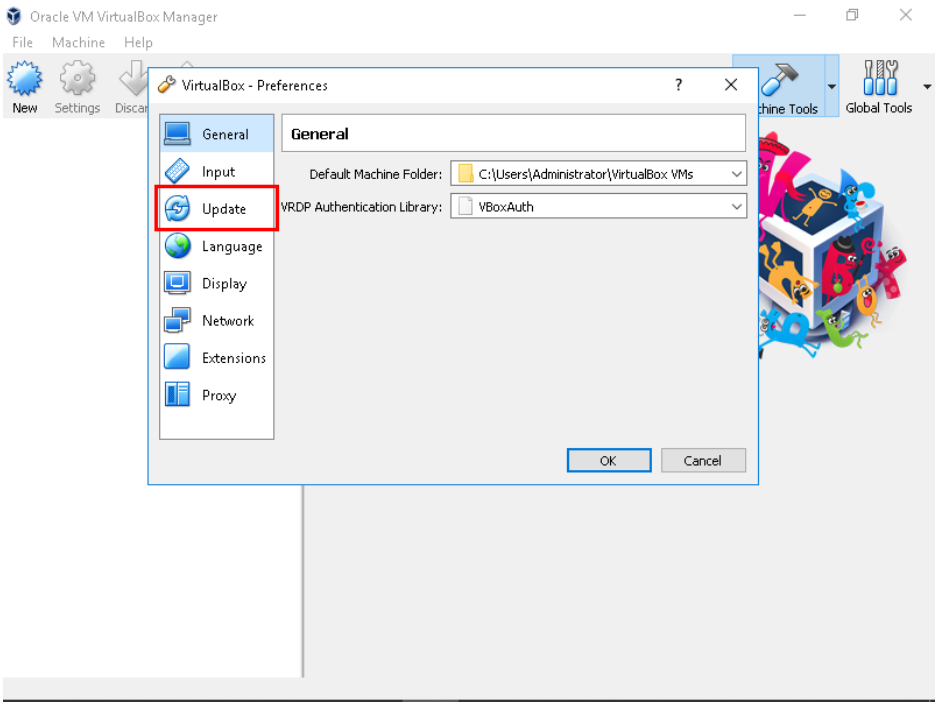
Chceme zapnut virtualbox a klikneme na Finish



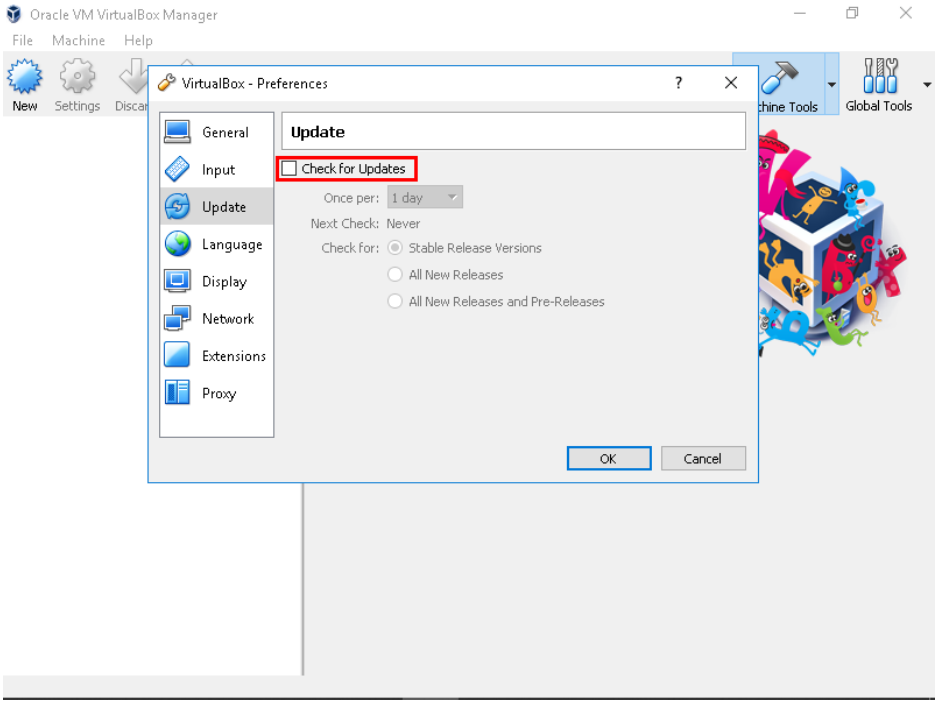
File > Preferences



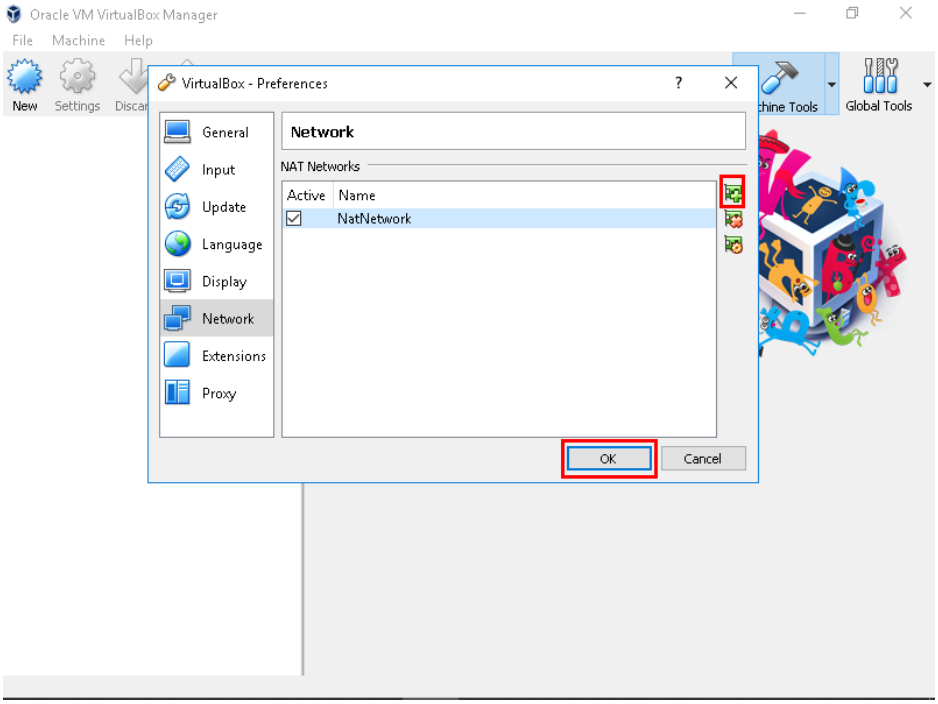
Update



Vypneme updaty

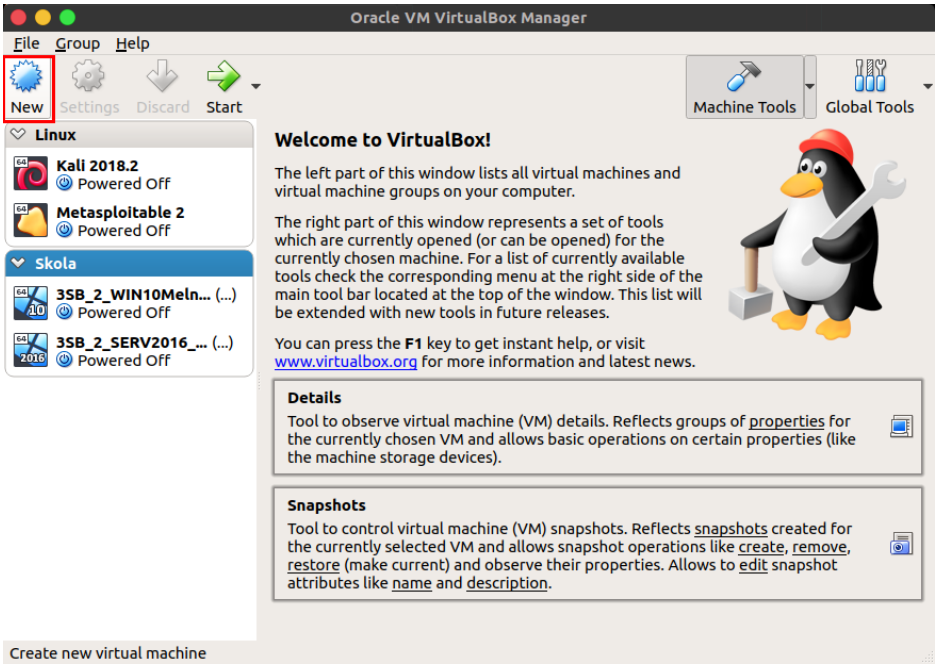


Pridame novy NatNetwork

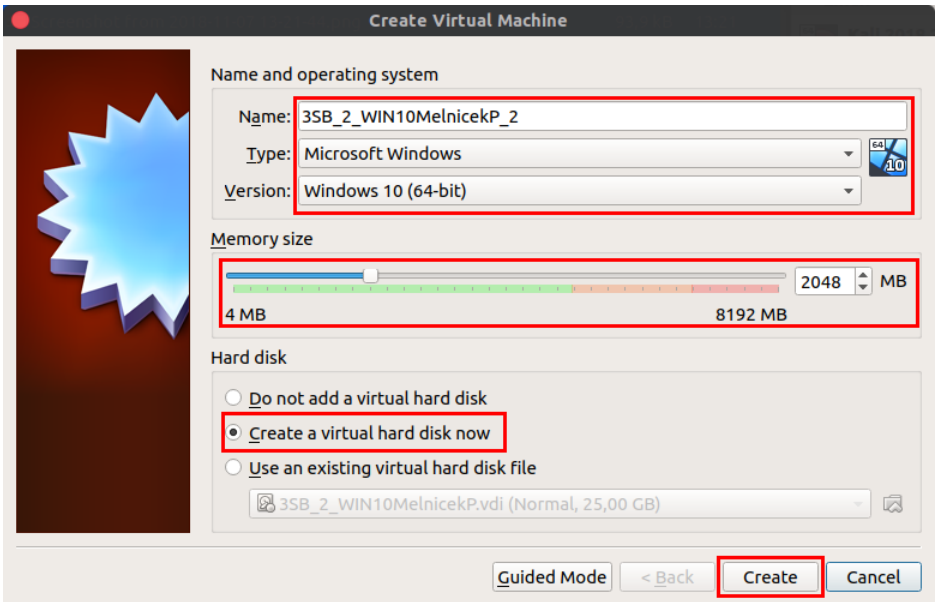


2 Inštalácia Windows 10

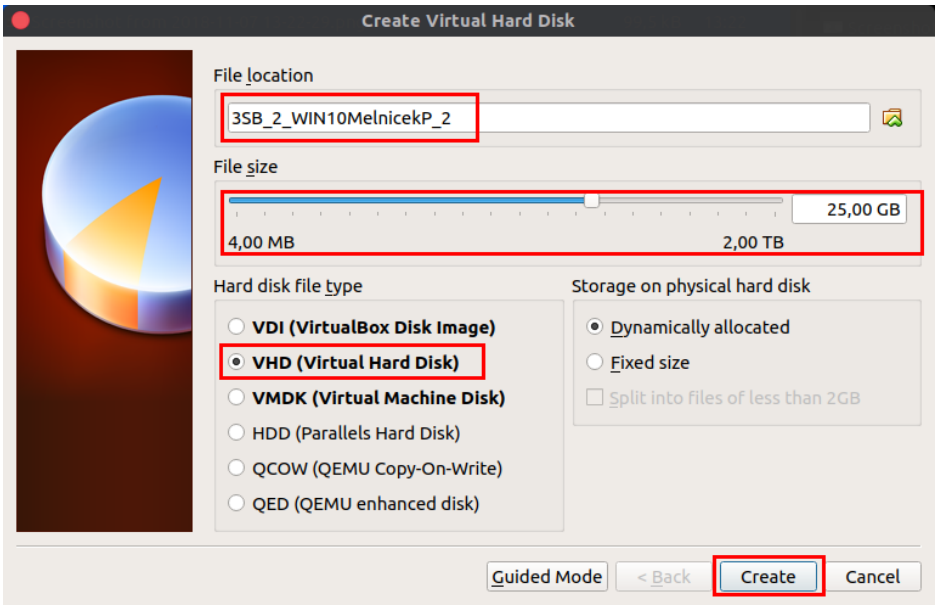
Klikneme na 'New'



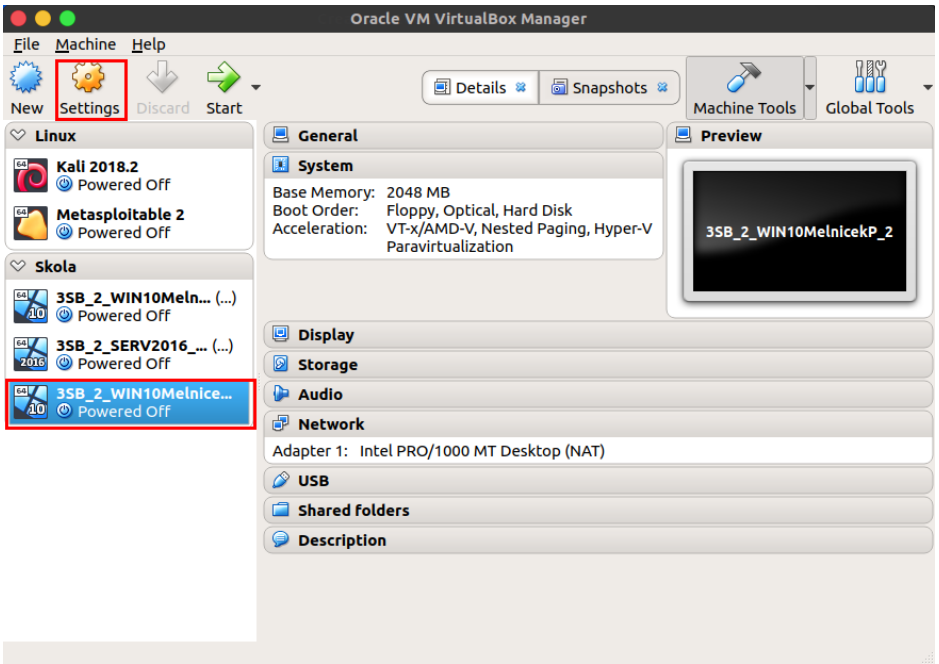
Nastavime vsetko podla obrazka a pokracujeme s 'Create'



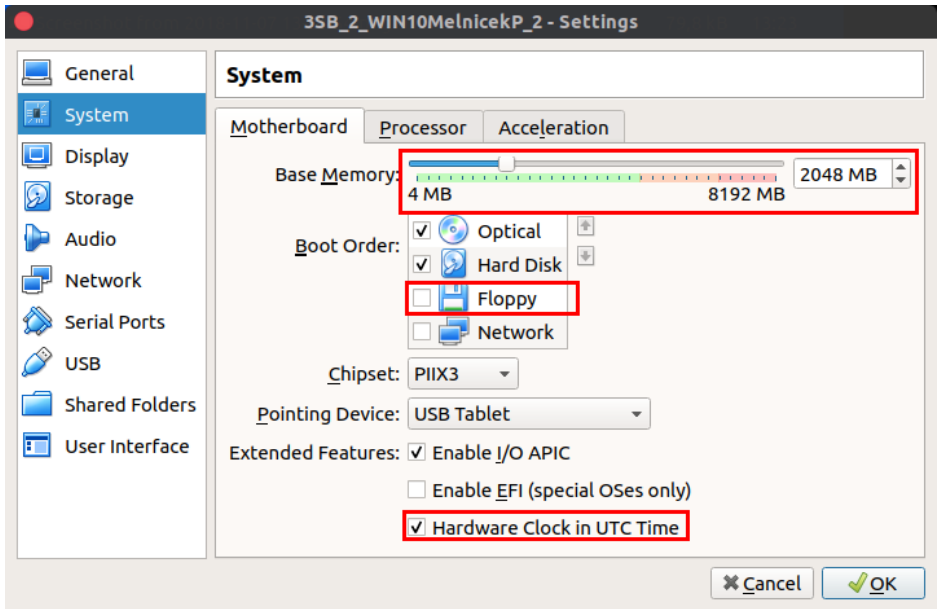
Nastavime vsetko podla obrazka a pokracujeme s 'Create'



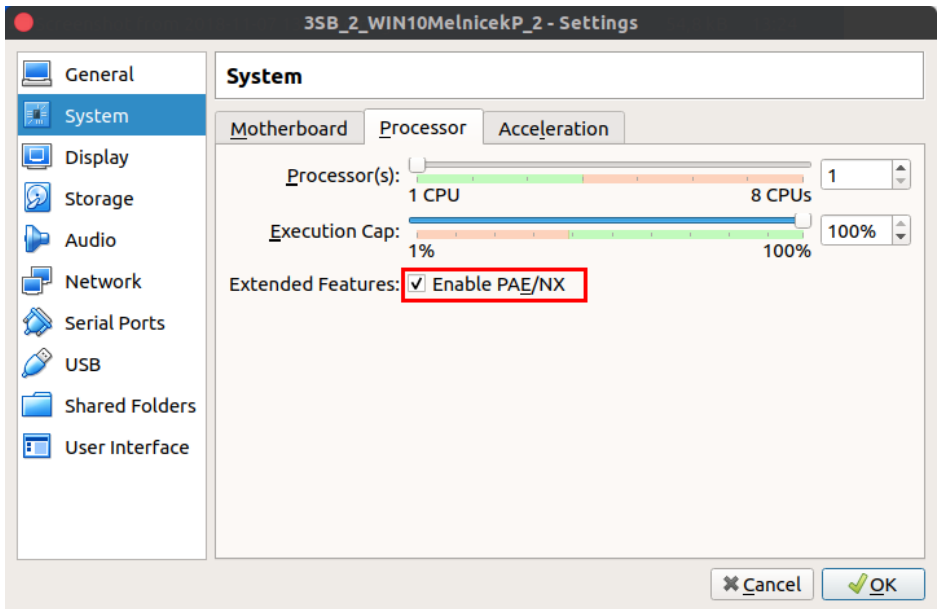
Klikneme 'Settings' na nasej novo vytvorenej VM



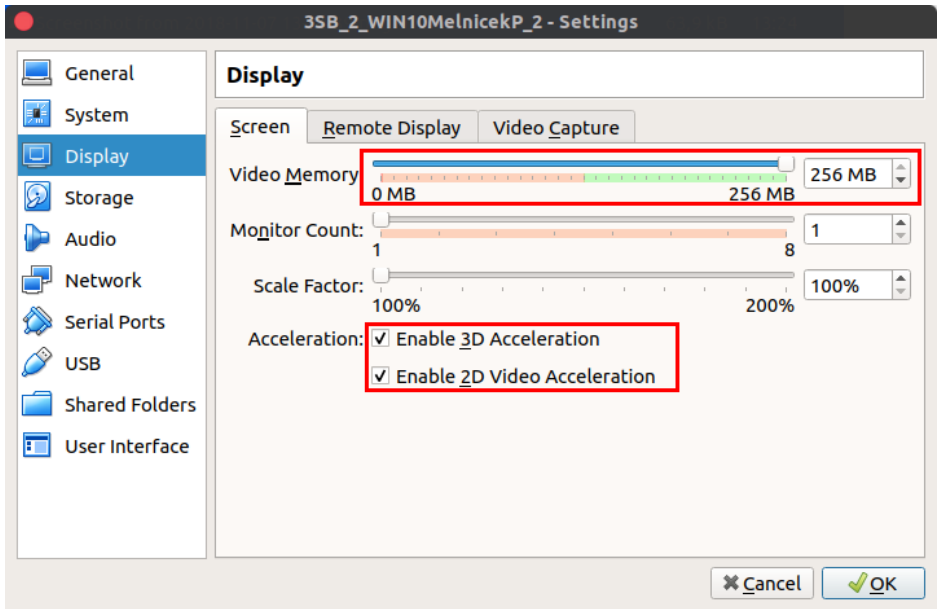
Nastavime vyznacene polozky podla obrazka



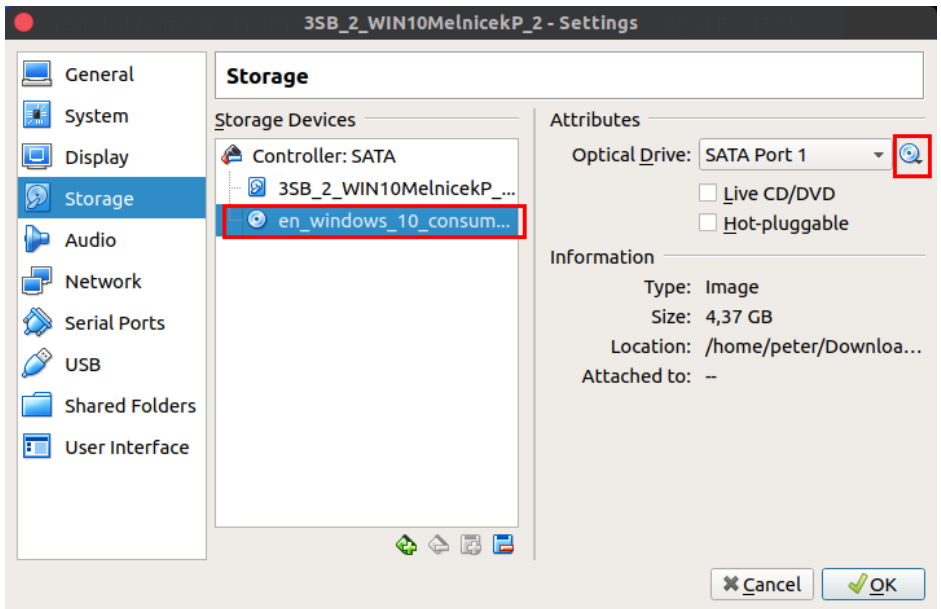
Nastavime vyznacene polozky podla obrazka



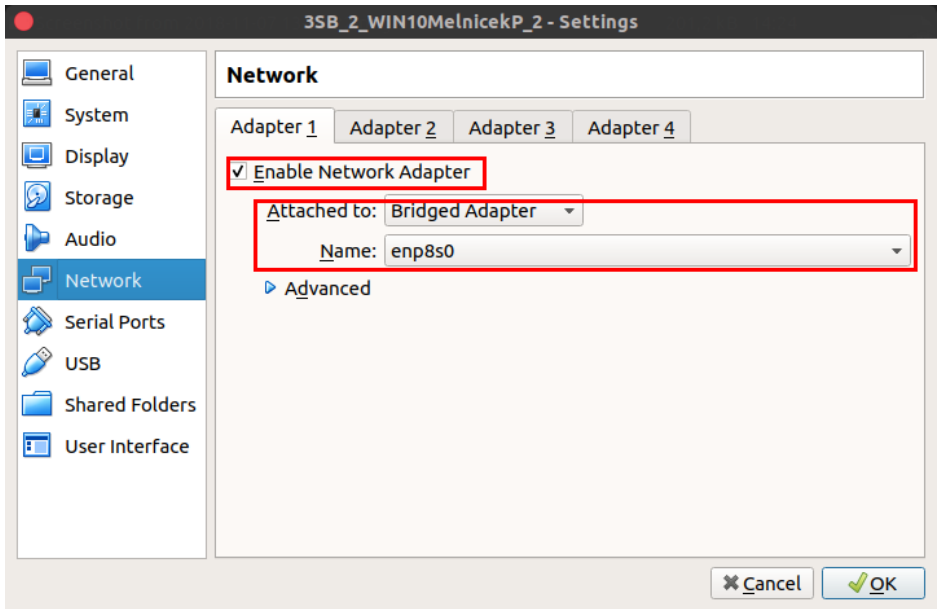
Nastavime vyznacene polozky podla obrazka



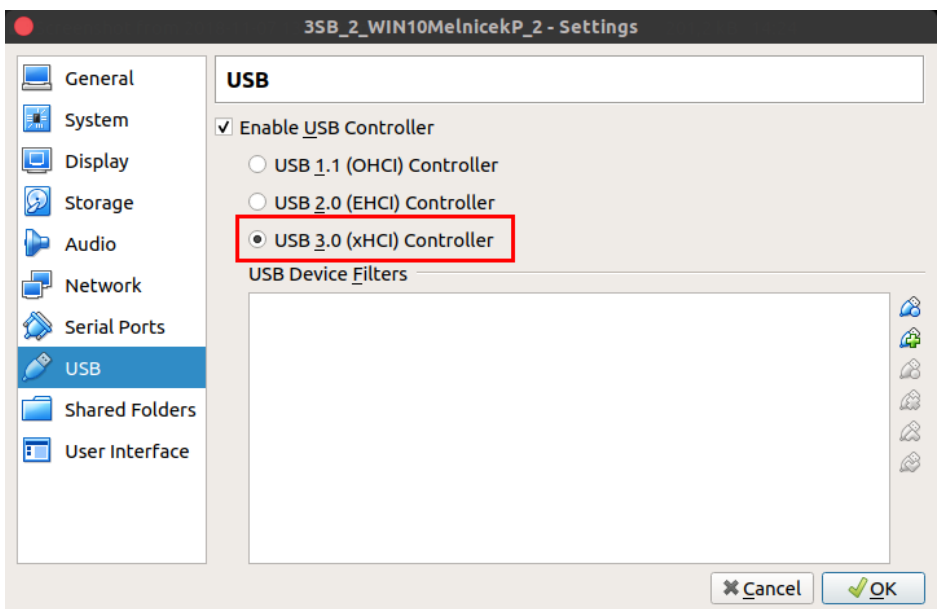
Pridame instalacny disk Windows 10



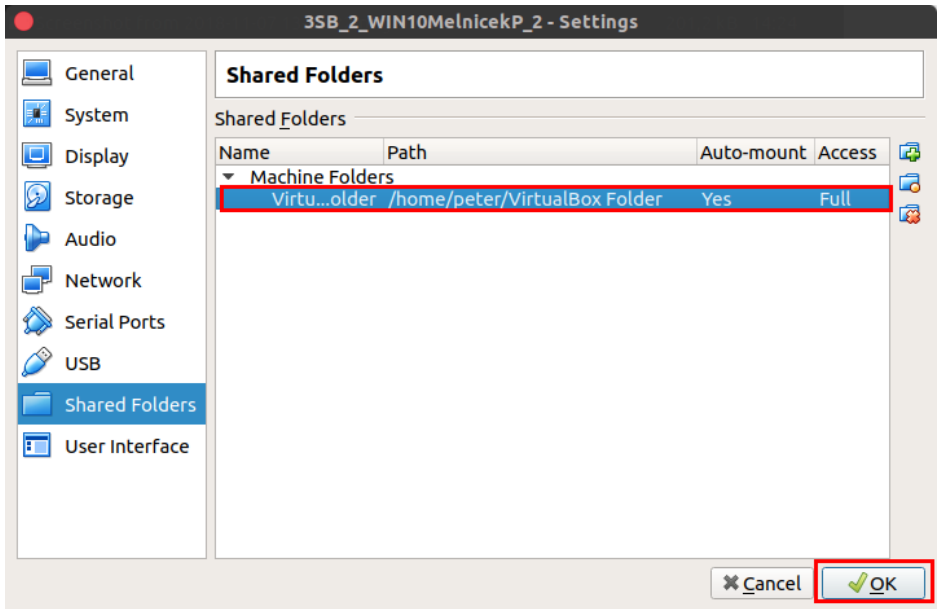
Pridame network adapter



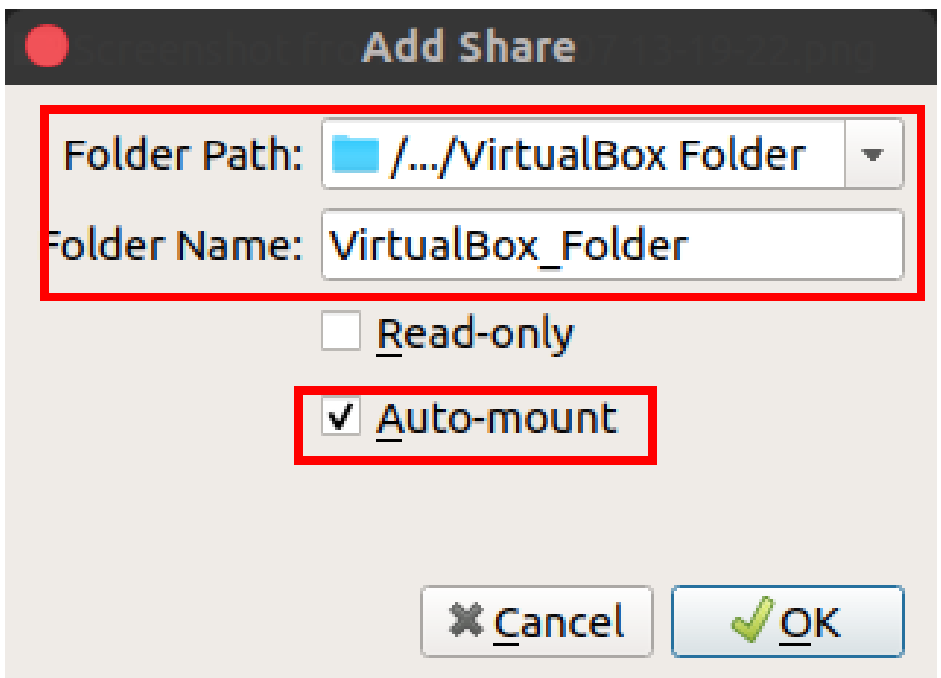
Aktivujeme USB 3.0



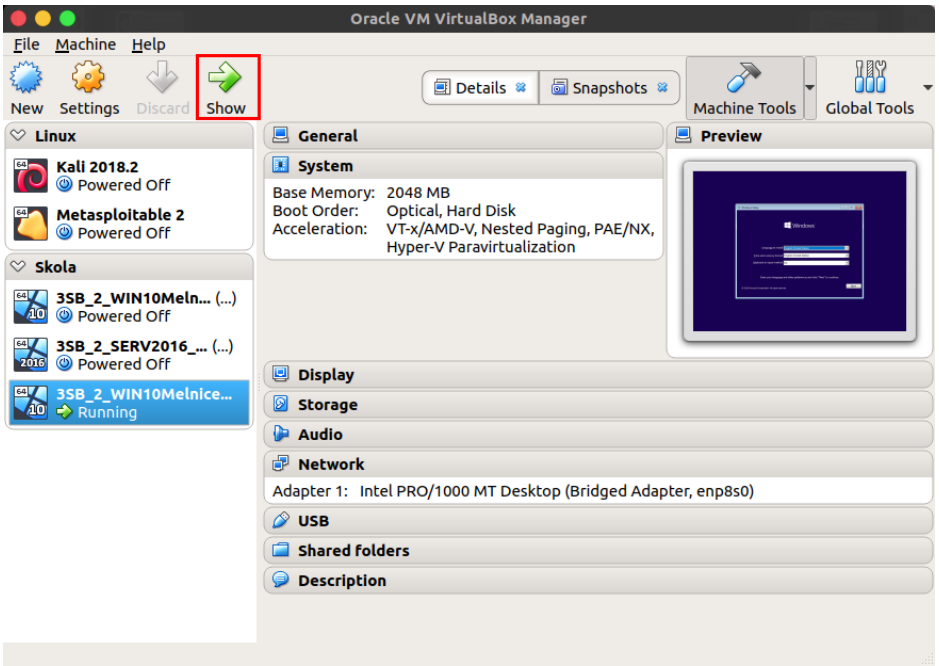
Vytvorime Shared Folder



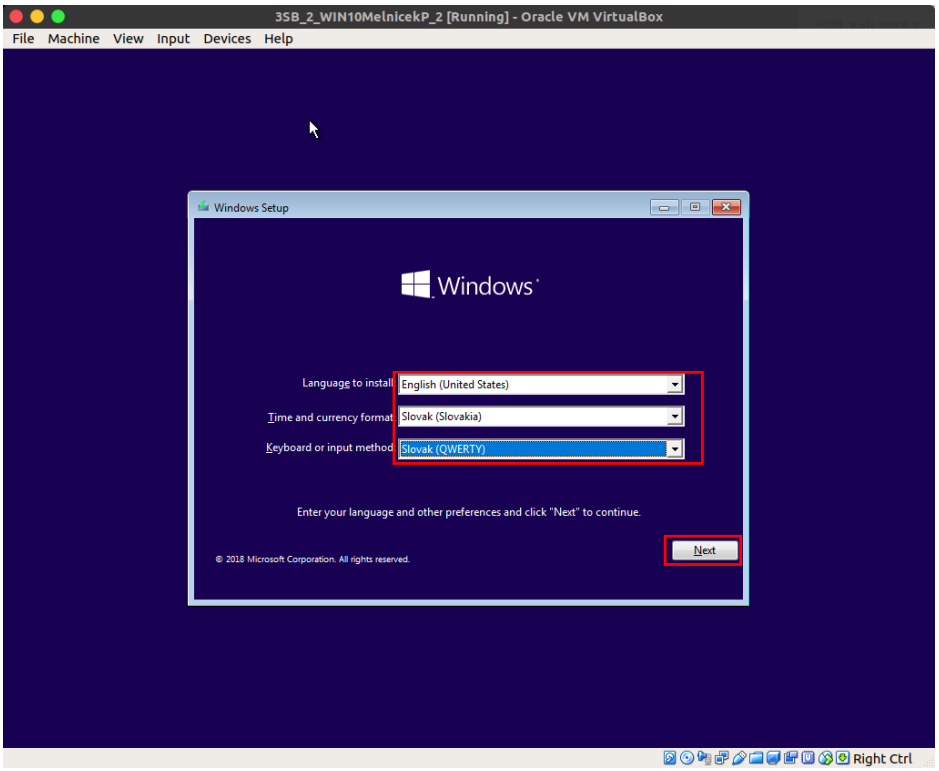
Auto-mount



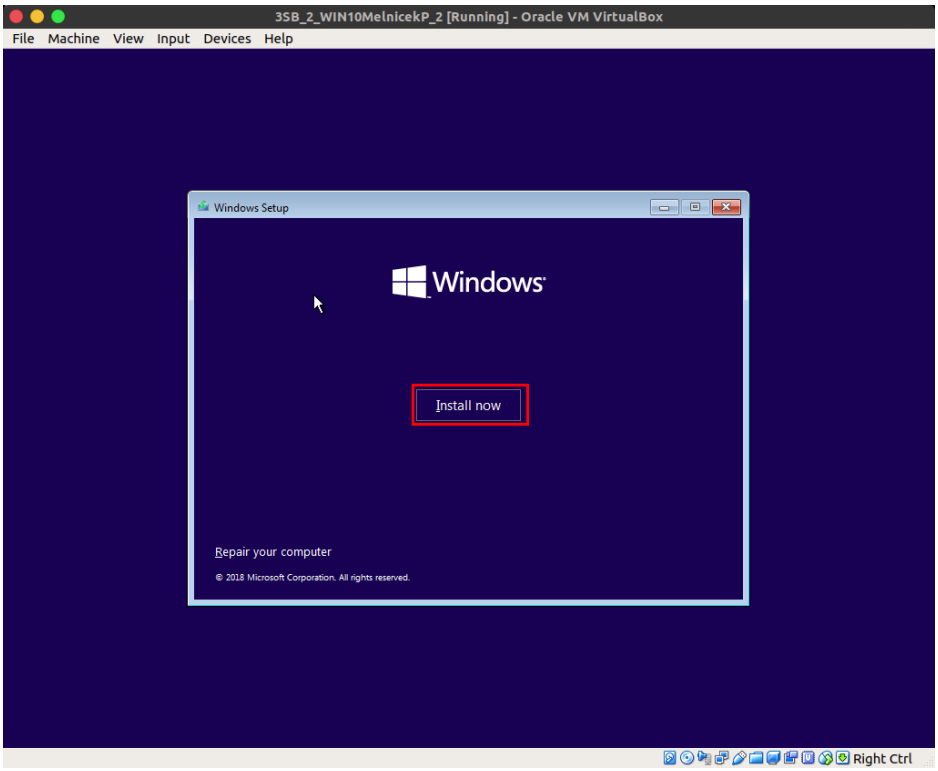
Spustime VM pomocou 'Start' tlacitka



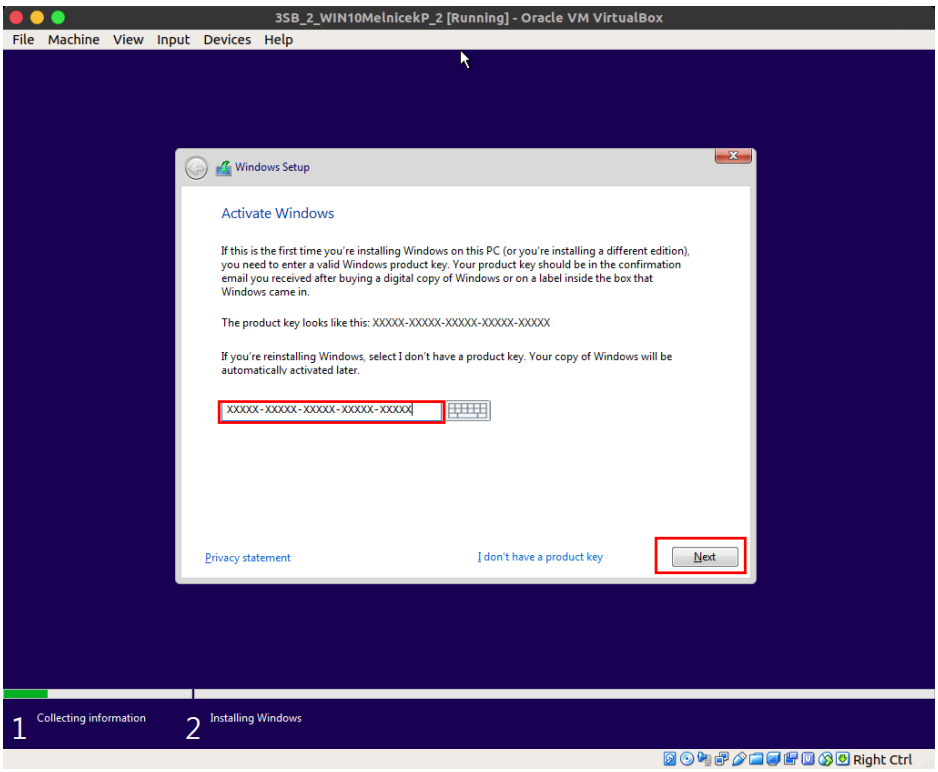
Nastavime podla obrazka a klikneme 'Next'



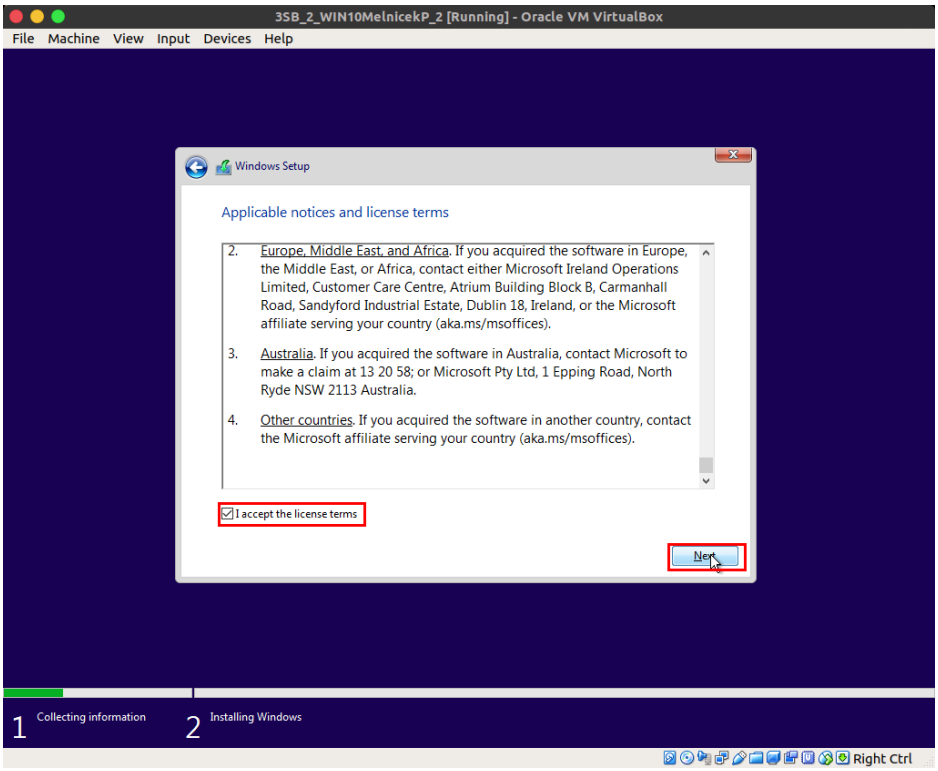
Klikneme 'Install now'



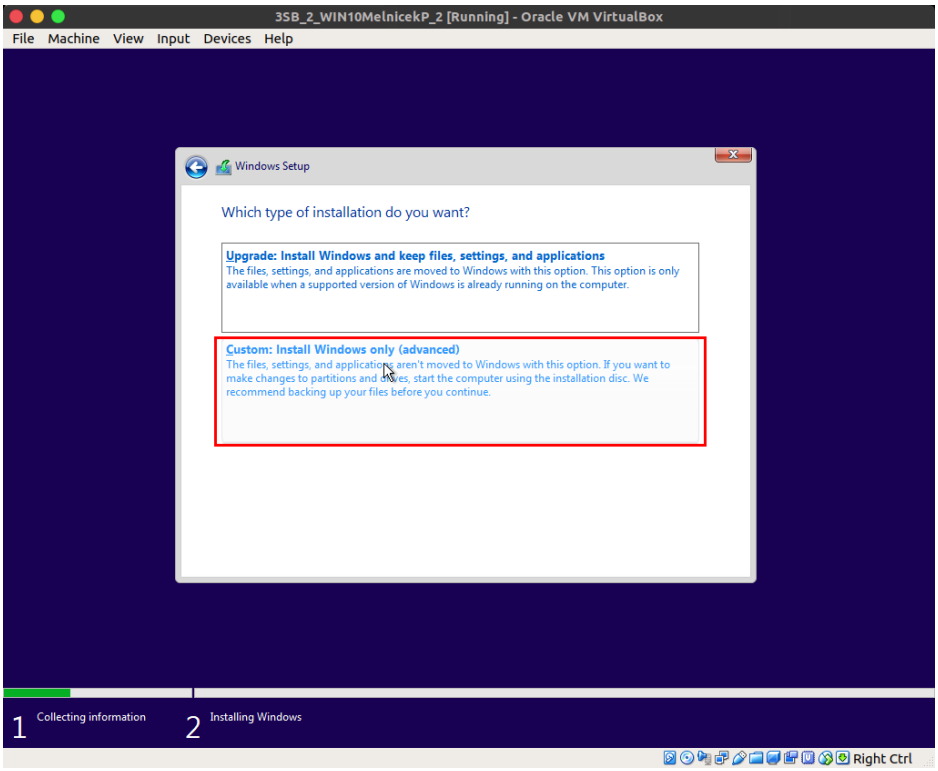
Zadame licencny kluc a klikneme 'Next'



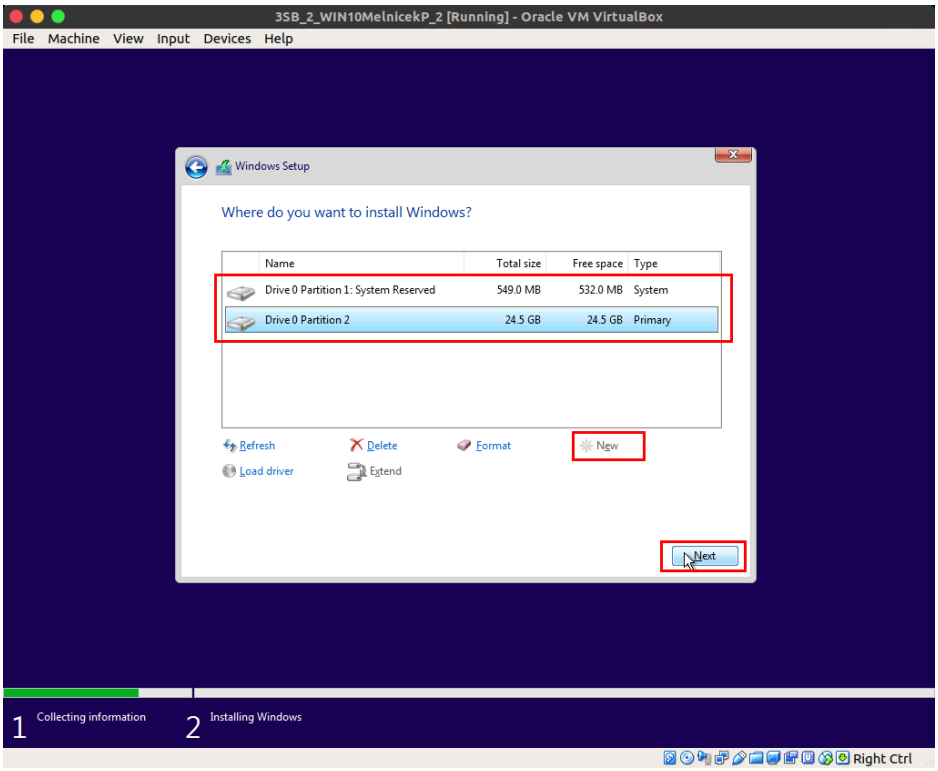
Precitame a akceptujeme licencne podmienky a klikneme 'Next'



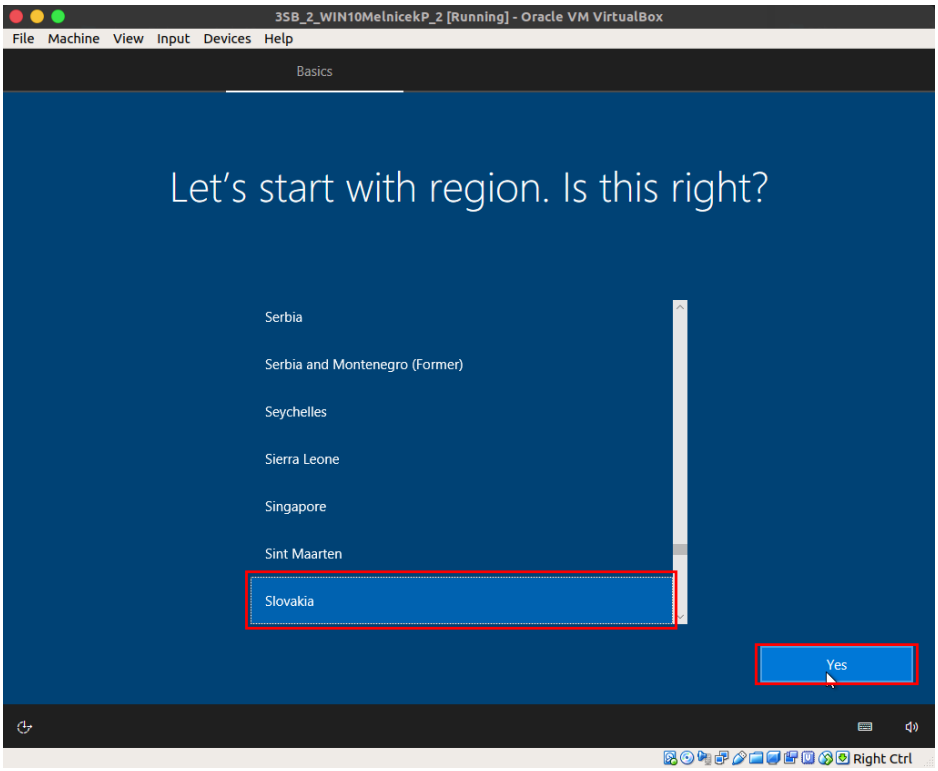
Pokracujeme s 'Custom Install'



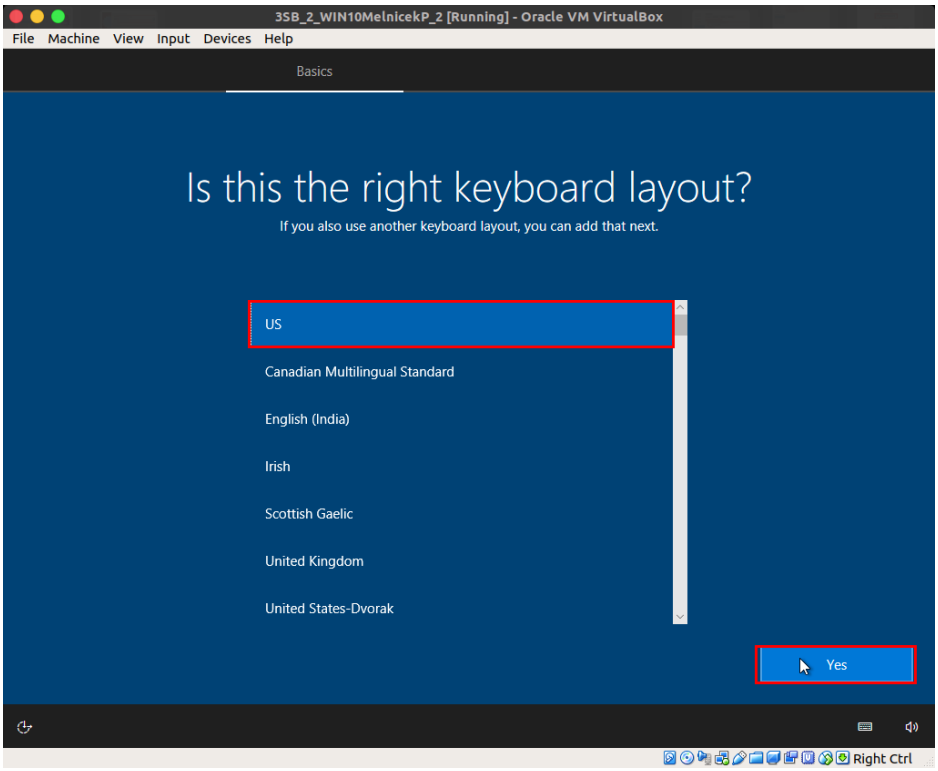
Klikneme na 'New', vytvoria sa nam 2 particie a pokracujeme s 'Next'



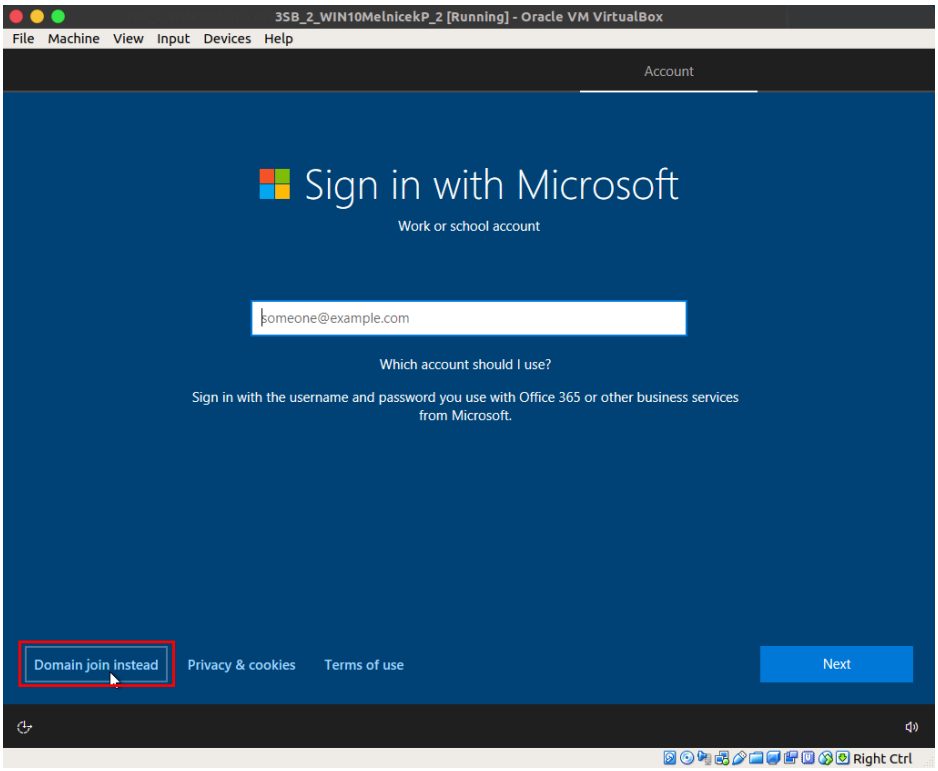
Vyberieme si nas region a klikneme 'Yes'



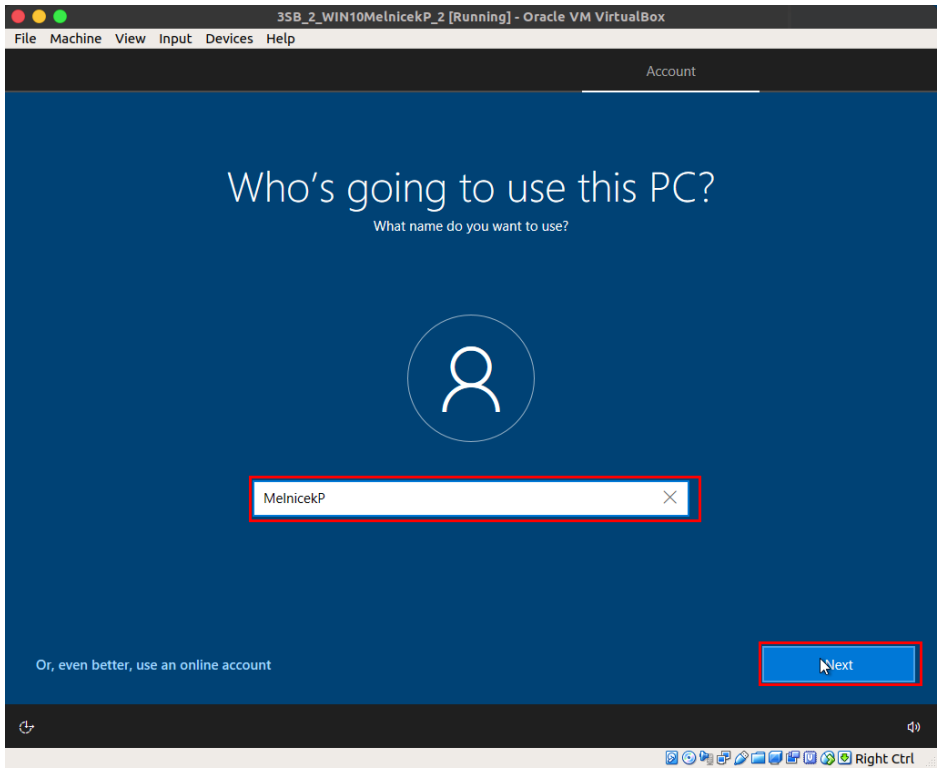
Vyberieme si nas oblubeny layout klavesnice -> 'Yes'



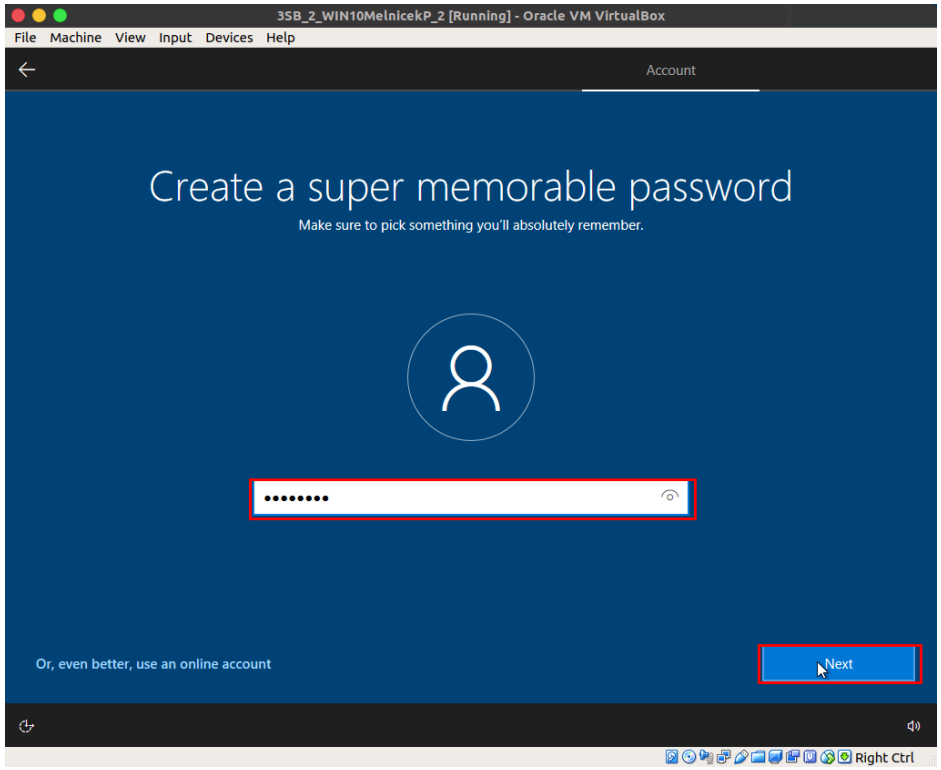
Vyberieme si moznost 'Domain join instead'



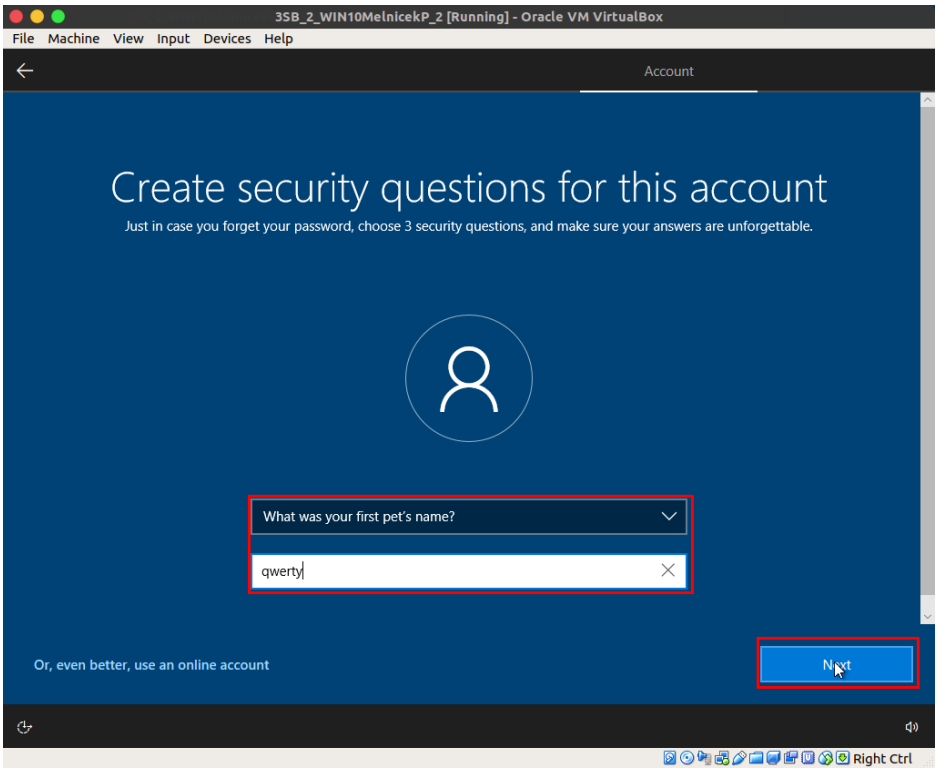
Vytvorime uzivatelske meno v tvare 'StudentX' a pokracujeme 'Next'



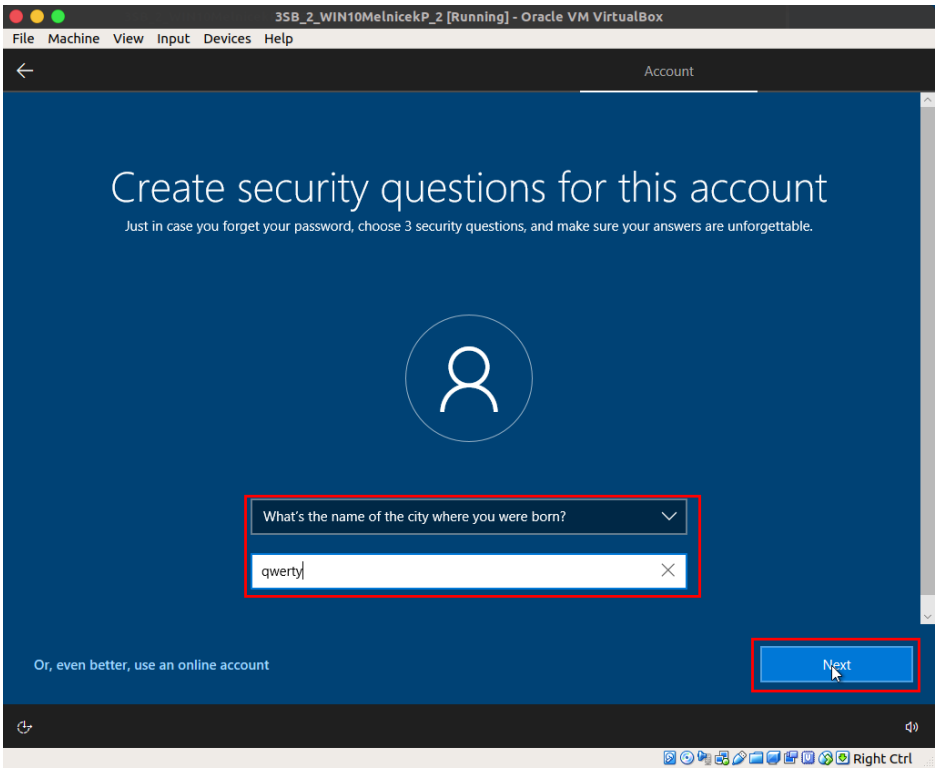
Vytvorime si heslo, najlepsie 'password'(ak sa nam niekto chce dostat do pocitaca tak sa ja dostane, silnejsie heslo ho vacsinou nezastavi) -> 'Next'



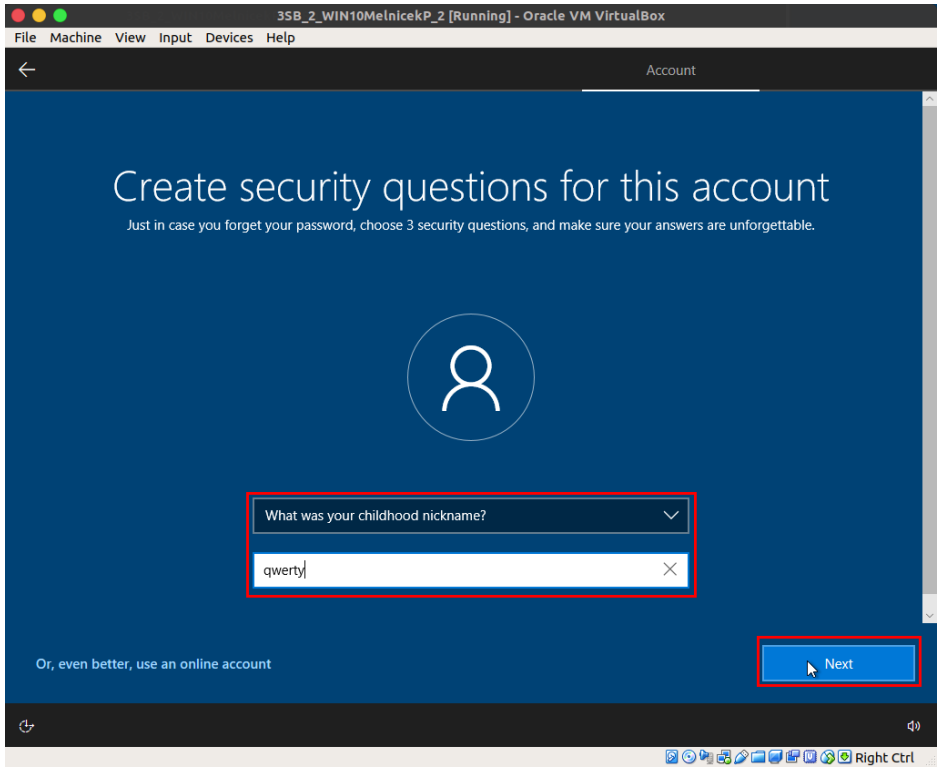
Vyberieme si bezpecnostnu otazku a odpovieme na nu



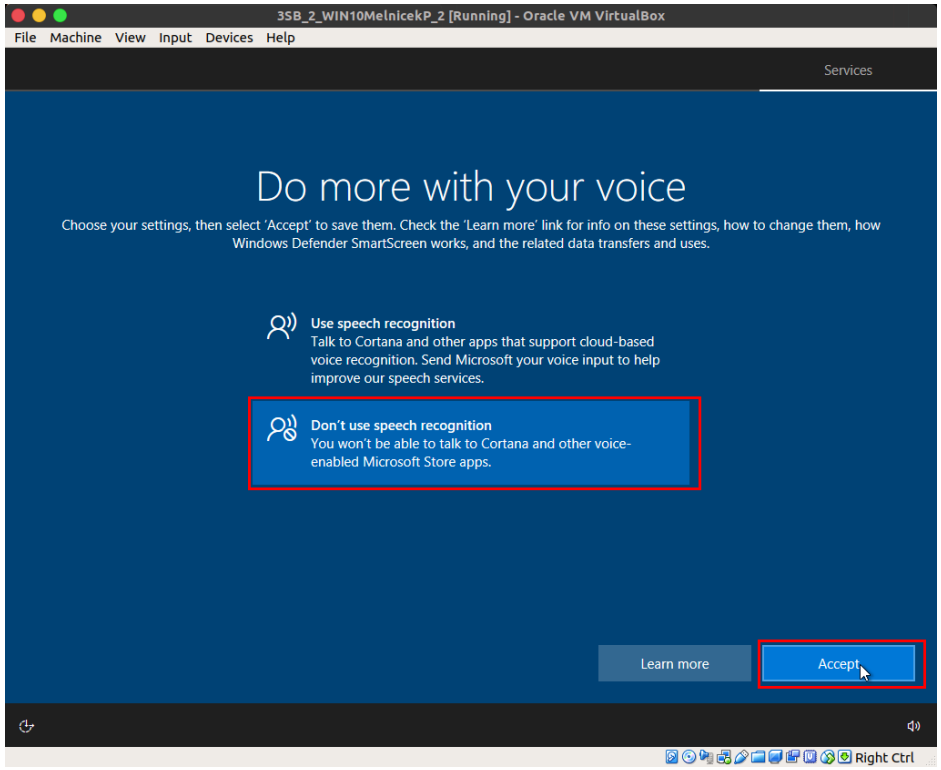
Vyberieme si bezpecnostnu otazku a odpovieme na nu



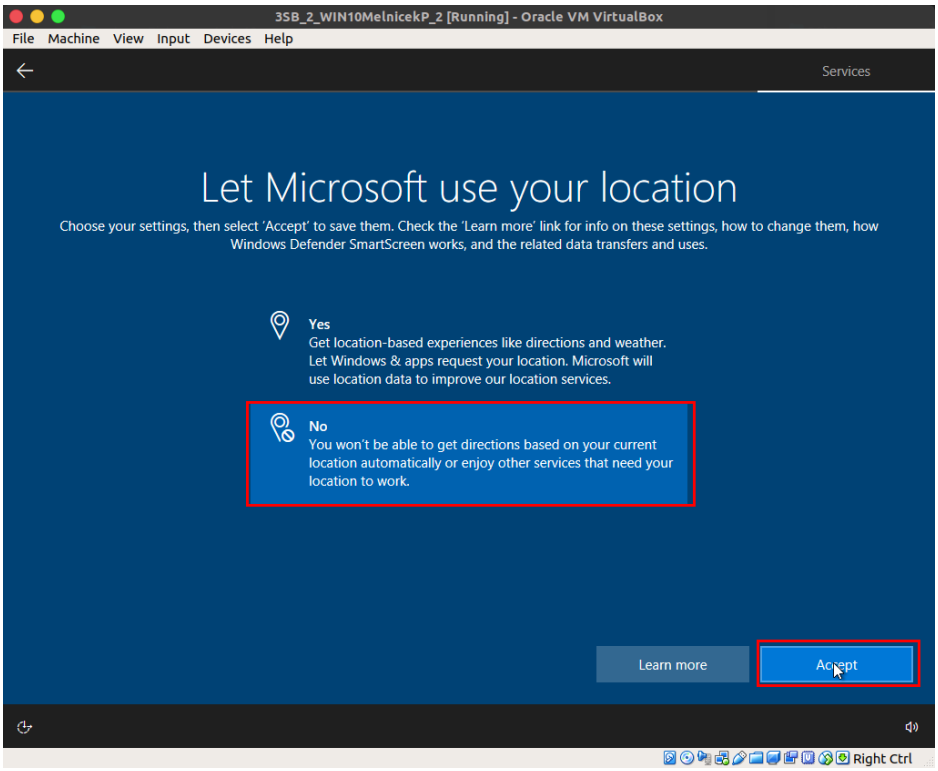
Vyberieme si bezpecnostnu otazku a odpovieme na nu (Microsoft sa nam snazi co najviac zneprijemnit vytvaranie lokalneho konta a nie ich online uctu)



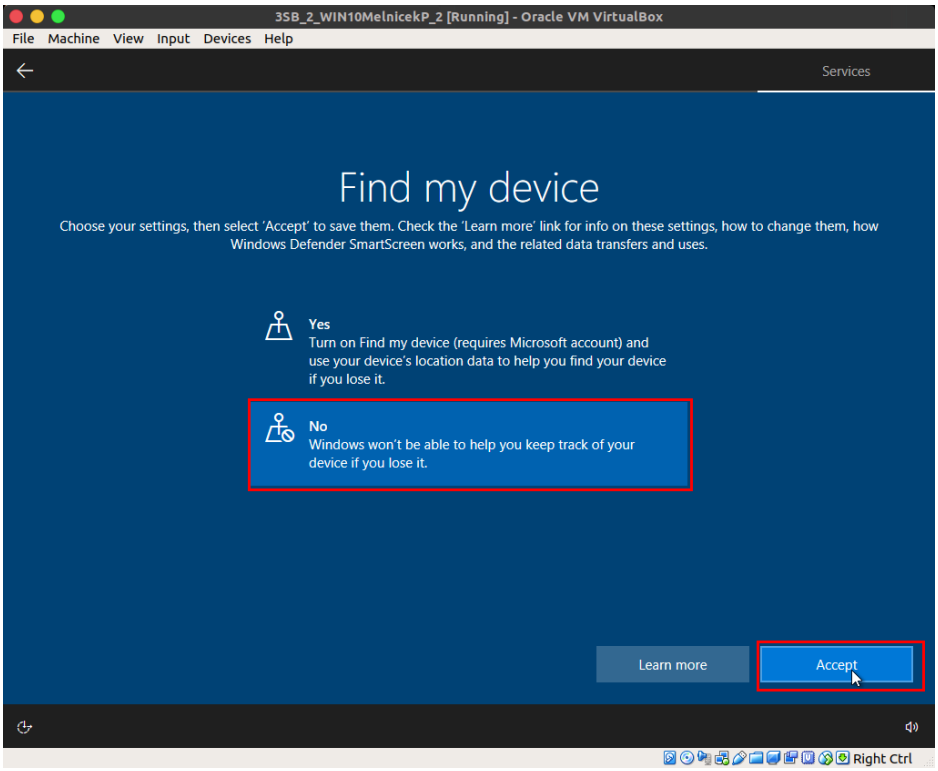
Nechceme nic dat Microsoftu -> 'Accept'



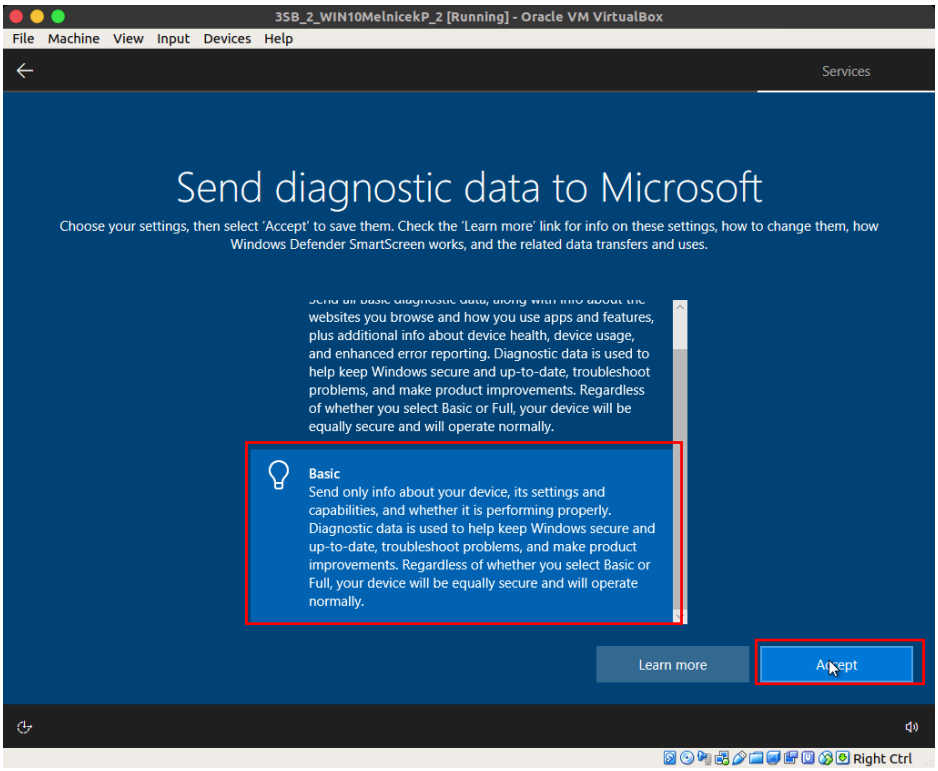
Nechceme nic dat Microsoftu -> 'Accept'



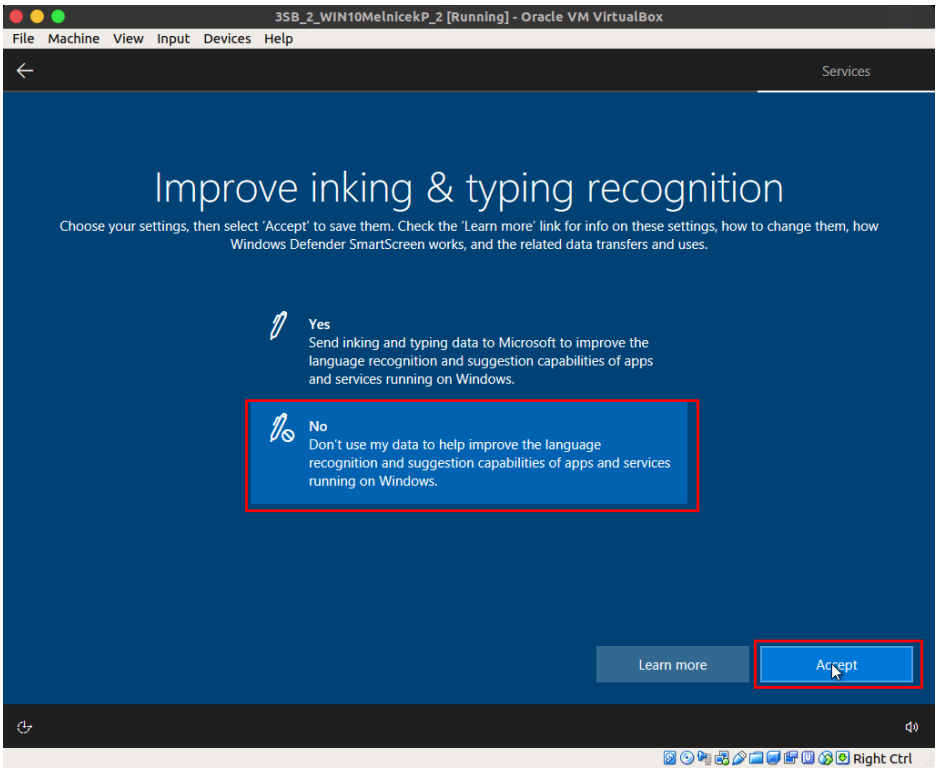
Nechceme nic dat Microsoftu -> 'Accept'



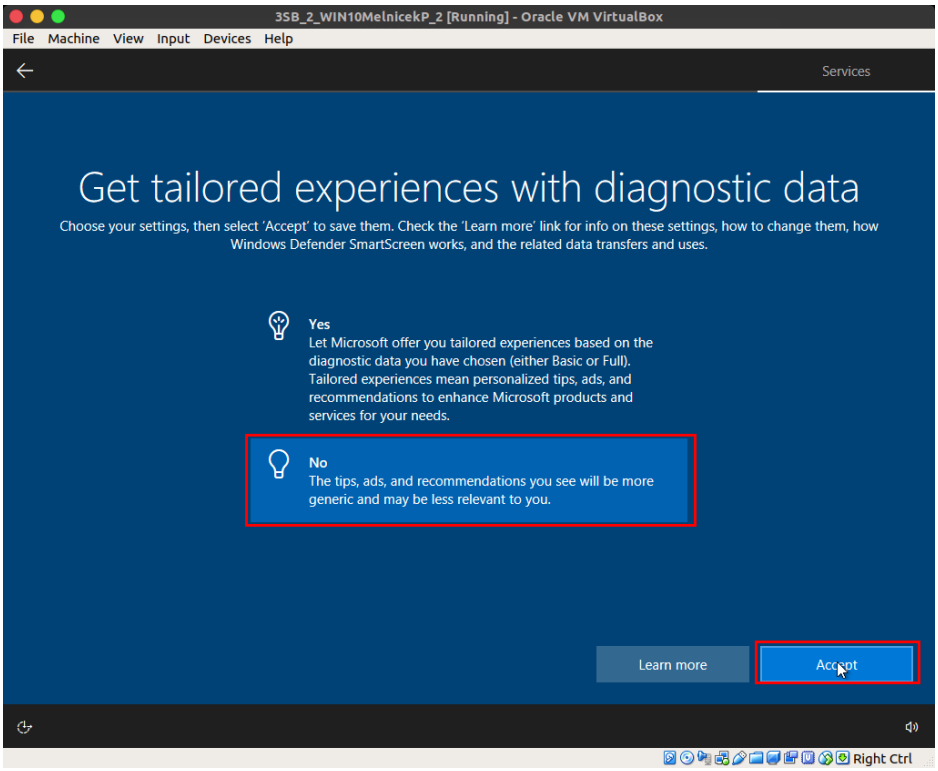
Nechceme nic dat Microsoftu -> 'Accept'



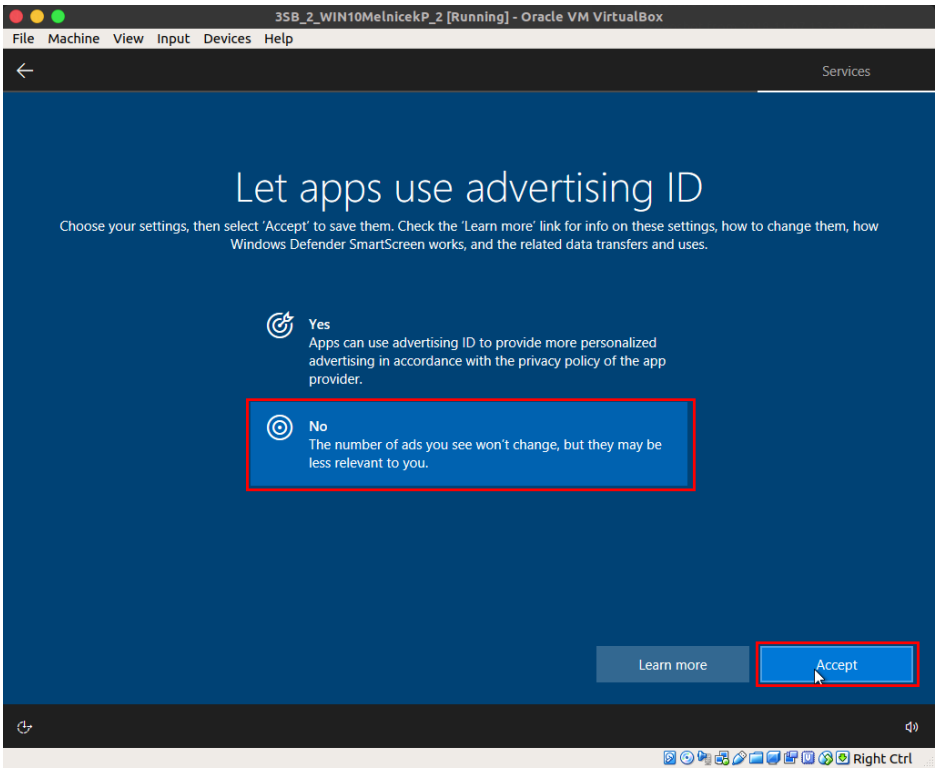
Nechceme nic dat Microsoftu -> 'Accept'



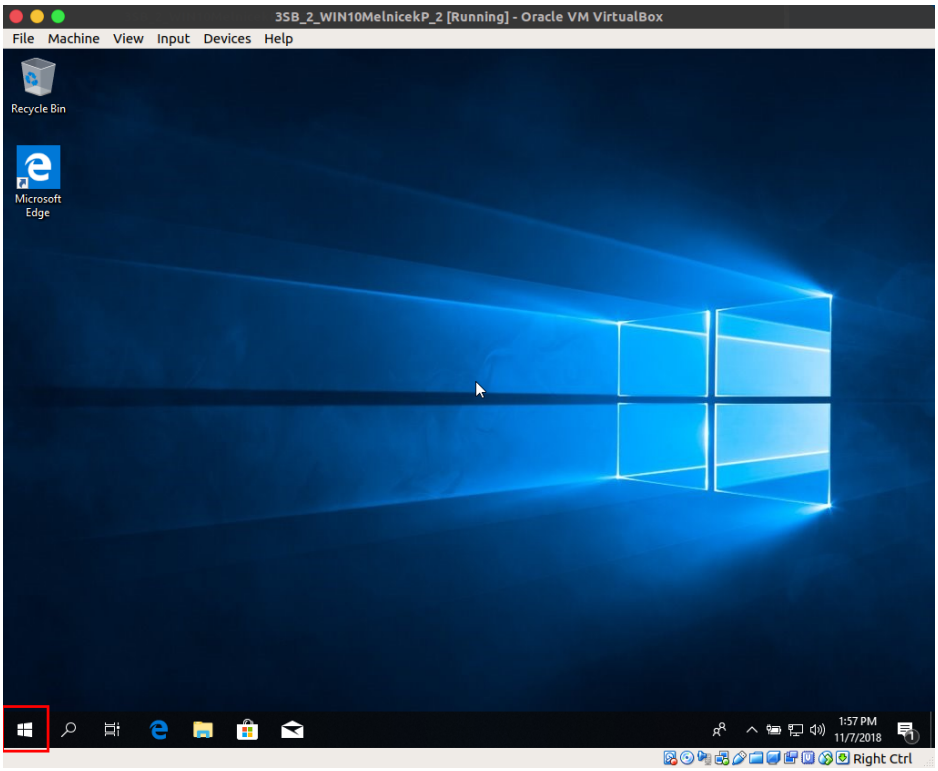
Nechceme nic dat Microsoftu -> 'Accept'



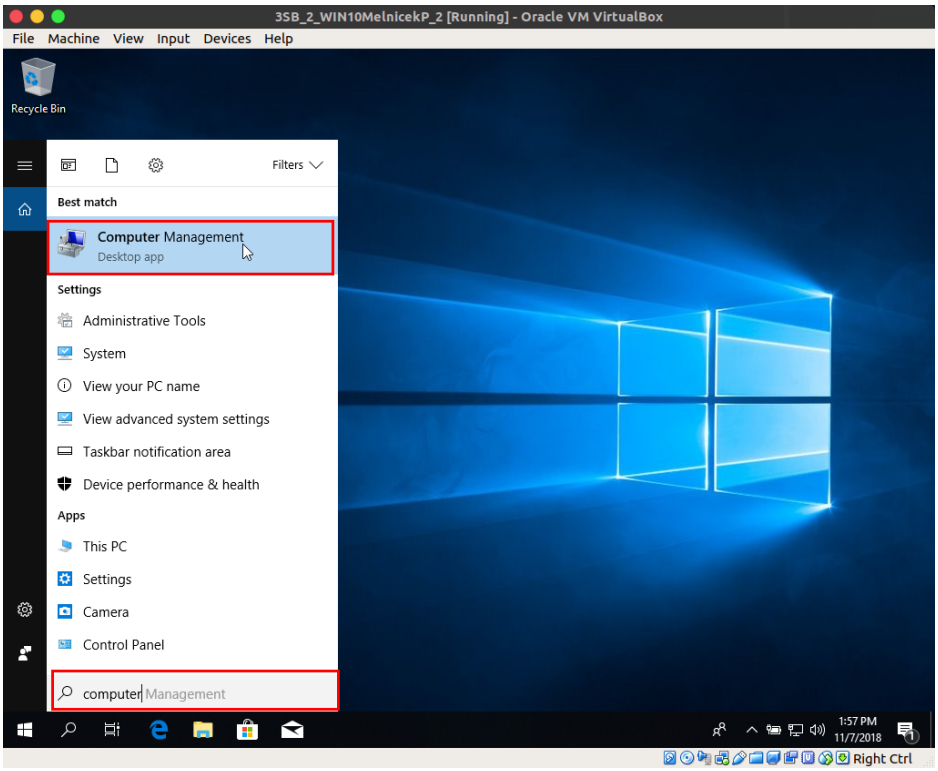
Nechceme nic dat Microsoftu -> 'Accept'



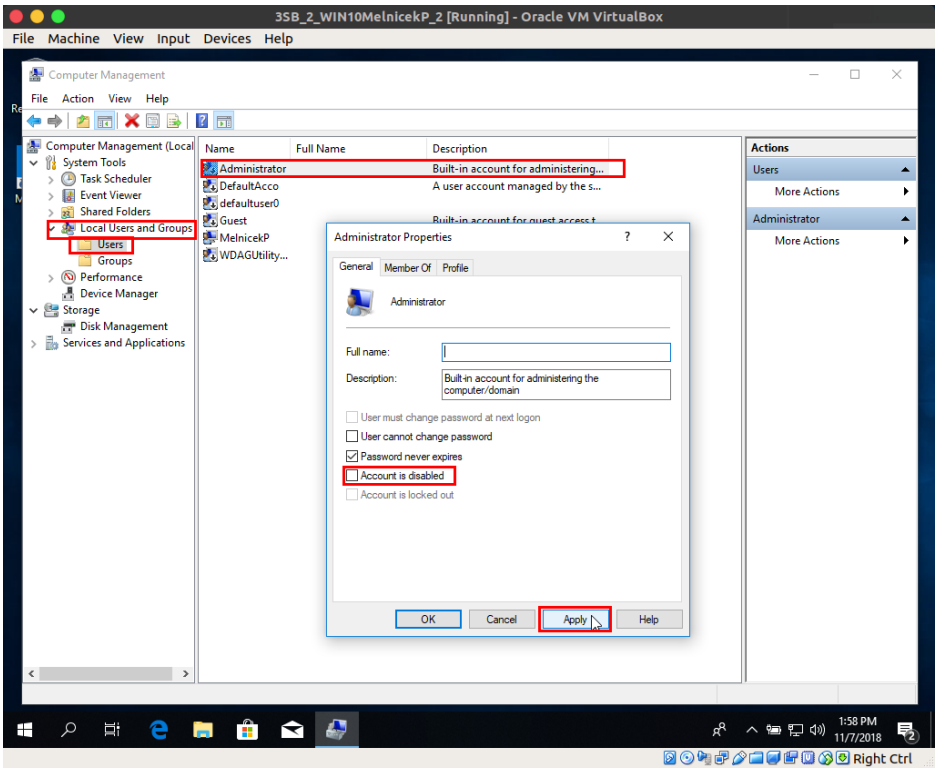
Otvorime ponuku Start



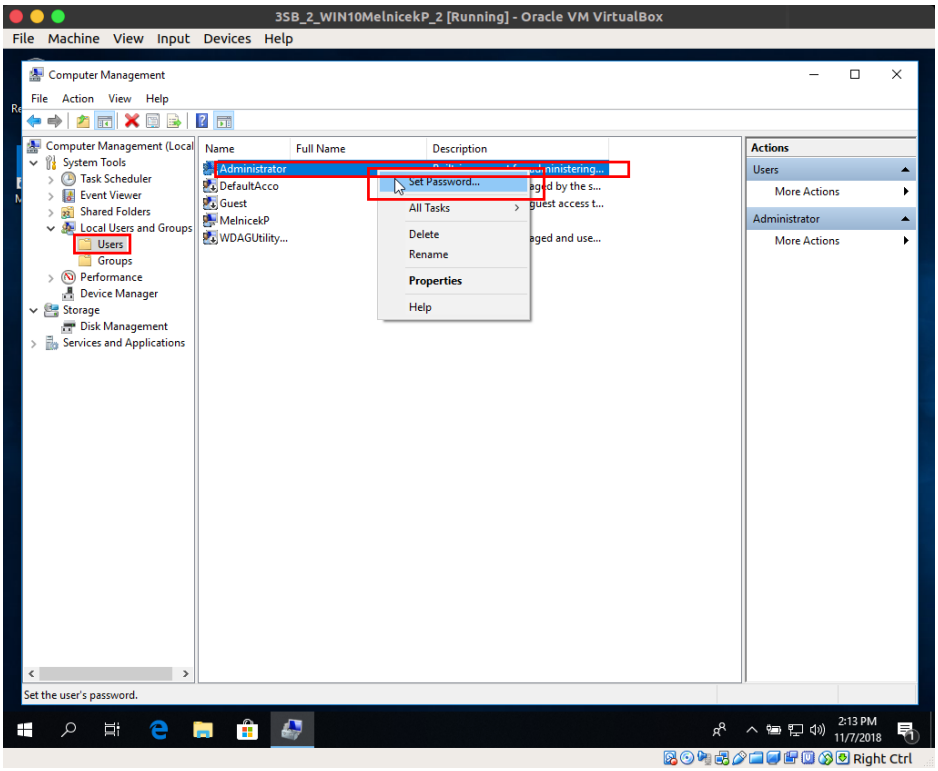
Vyhladame 'Computer Management'



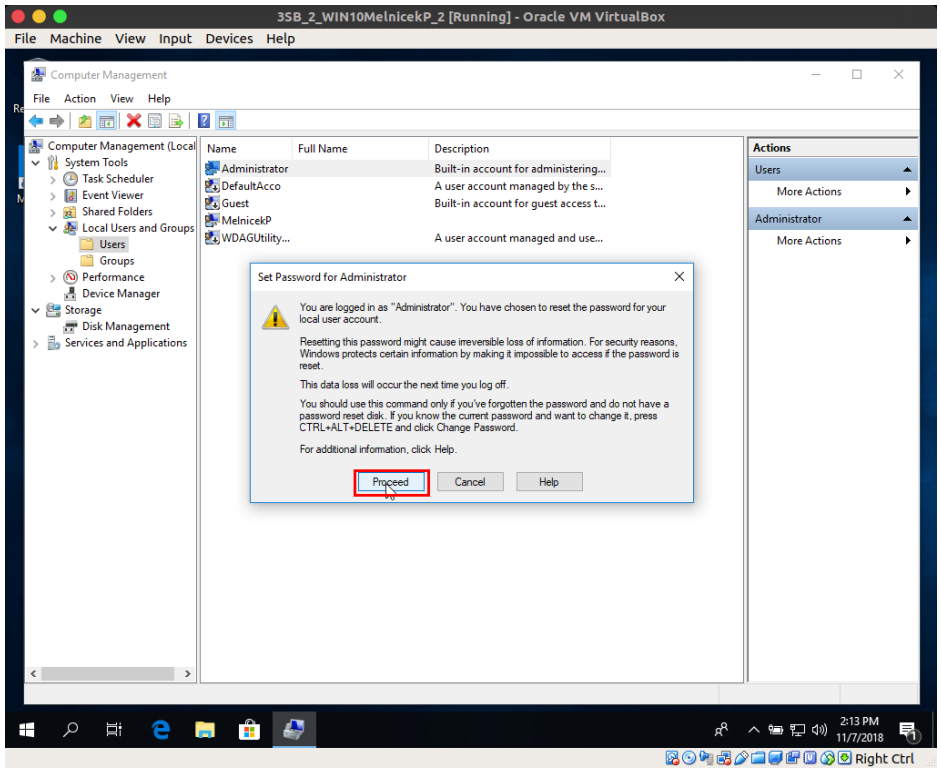
Aktivujeme ucet 'Administrator'



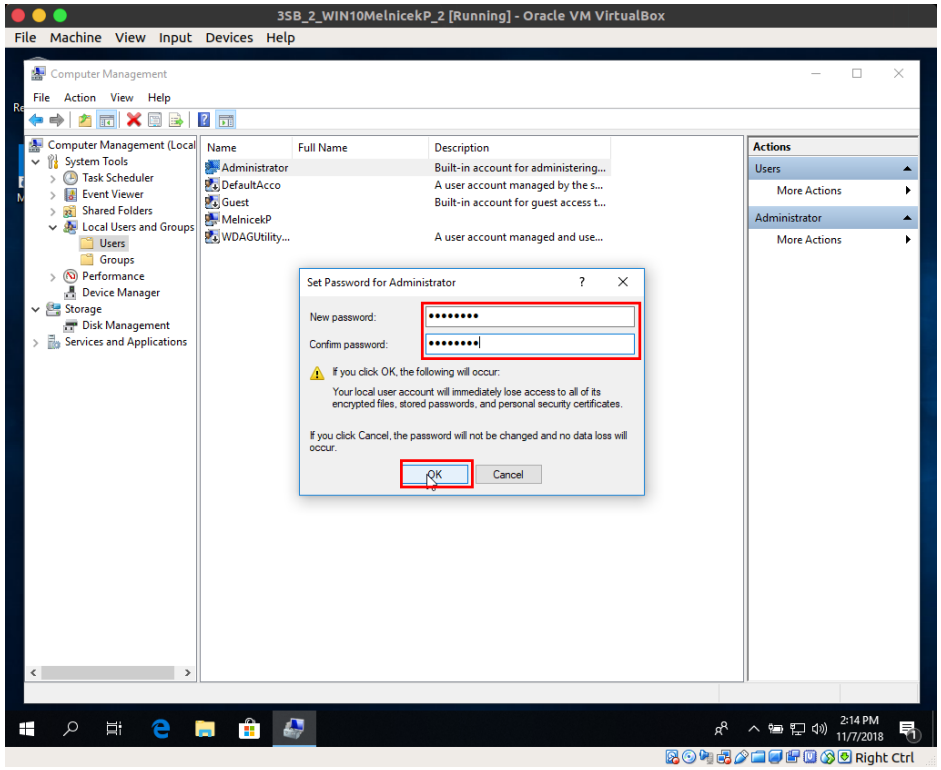
Vytvorime heslo pre ucet Administrator



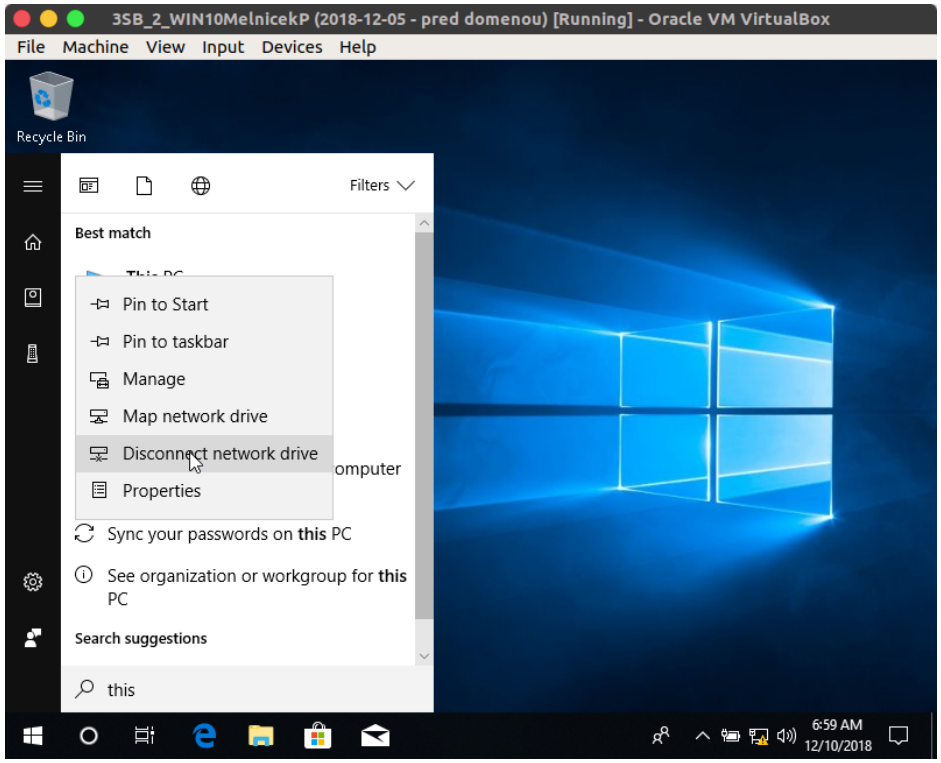
’Proceed’


3SB_2_WIN10MelnicekP_2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Computer Management
File Action View Help
Computer Management (Local
System Tools
Task Scheduler
Event Viewer
Shared Folders
Local Users and Groups
Users
Groups
Performance
Device Manager
Storage
Disk Management
Services and Applications
Name
Full Name
Description
Administrator
Built-in account for administering...
DefaultAcco
A user account managed by the s...
Guest
Built-in account for guest access t...
MelnicekP
WDAGUtility...
A user account managed and use...
Actions
Users
More Actions
Administrator
More Actions
Set Password for Administrator
You are logged in as "Administrator". You have chosen to reset the password for your local user account.
Resetting this password might cause irreversible loss of information. For security reasons, Windows protects certain information by making it impossible to access if the password is reset.
This data loss will occur the next time you log off.
You should use this command only if you've forgotten the password and do not have a password reset disk. If you know the current password and want to change it, press CTRL+ALT+DELETE and click Change Password.
For additional information, click Help.
Proceed
Cancel
Help
2:13 PM
11/7/2018
Right Ctrl

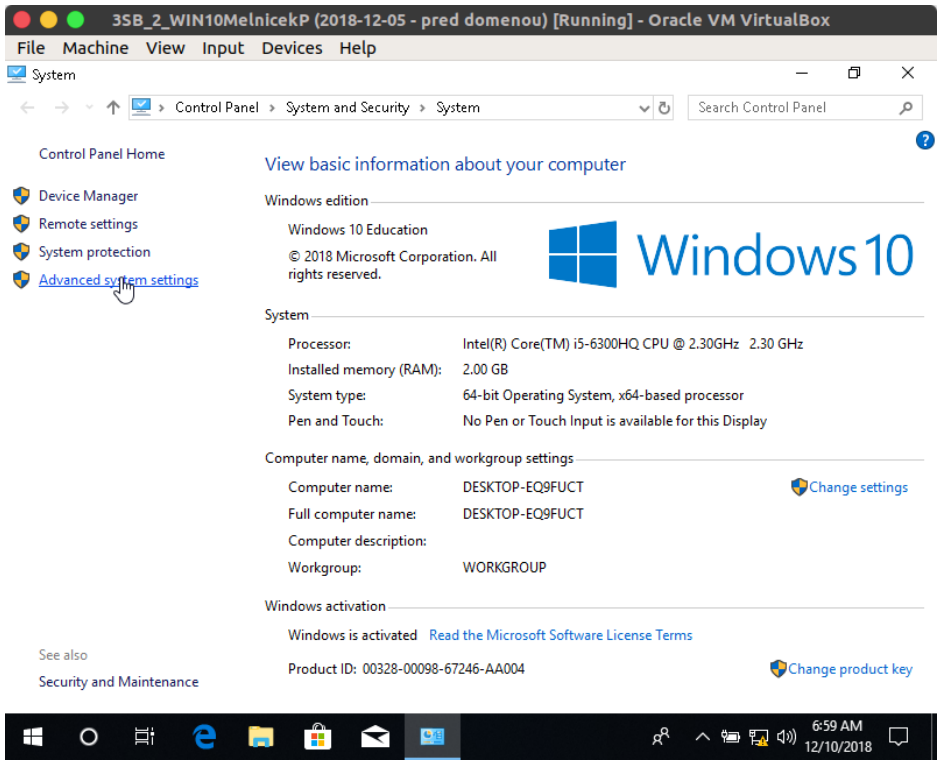
’OK’


3SB_2_WIN10MelnicekP_2 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Computer Management
File Action View Help
Computer Management (Local
System Tools
Task Scheduler
Event Viewer
Shared Folders
Local Users and Groups
Users
Groups
Performance
Device Manager
Storage
Disk Management
Services and Applications
Name
Full Name
Description
Administrator
Built-in account for administering...
DefaultAcco
A user account managed by the s...
Guest
Built-in account for guest access t...
MelnicekP
WDAGUtility...
A user account managed and use...
Actions
Users
More Actions
Administrator
More Actions
Set Password for Administrator
New password:
Confirm password:
If you click OK, the following will occur:
Your local user account will immediately lose access to all of its encrypted files, stored passwords, and personal security certificates.
If you click Cancel, the password will not be changed and no data loss will occur.
OK
Cancel
2:14 PM
11/7/2018
Right Ctrl

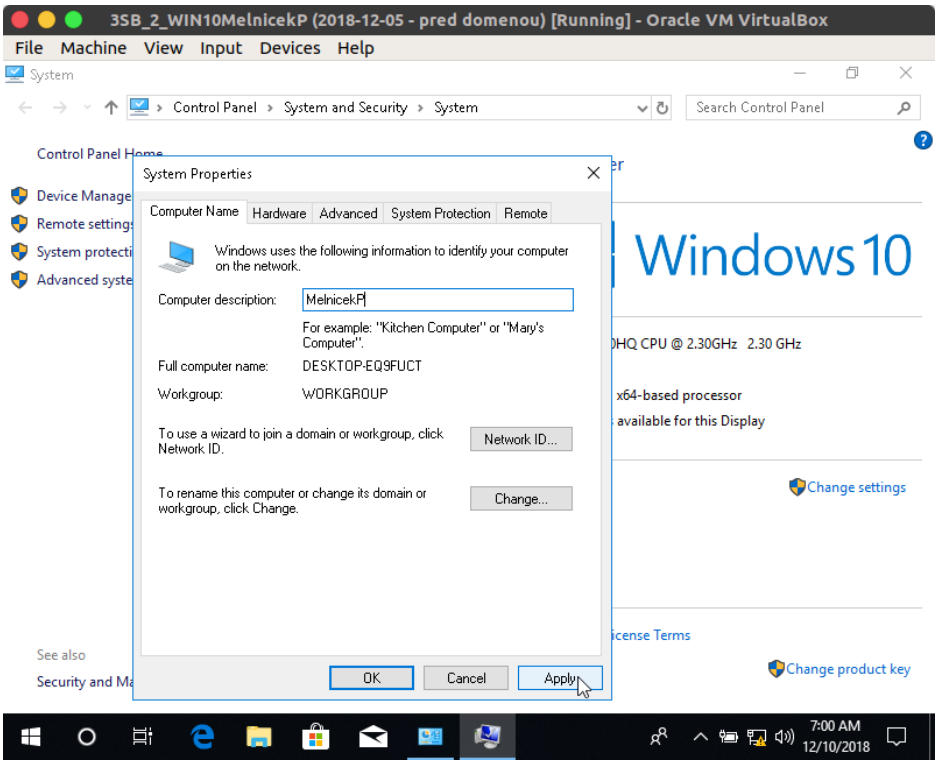
Vyhladame a pravym klikneme na This PC > Properties(okej tie cervene ramceky ma uz prestali bavit)



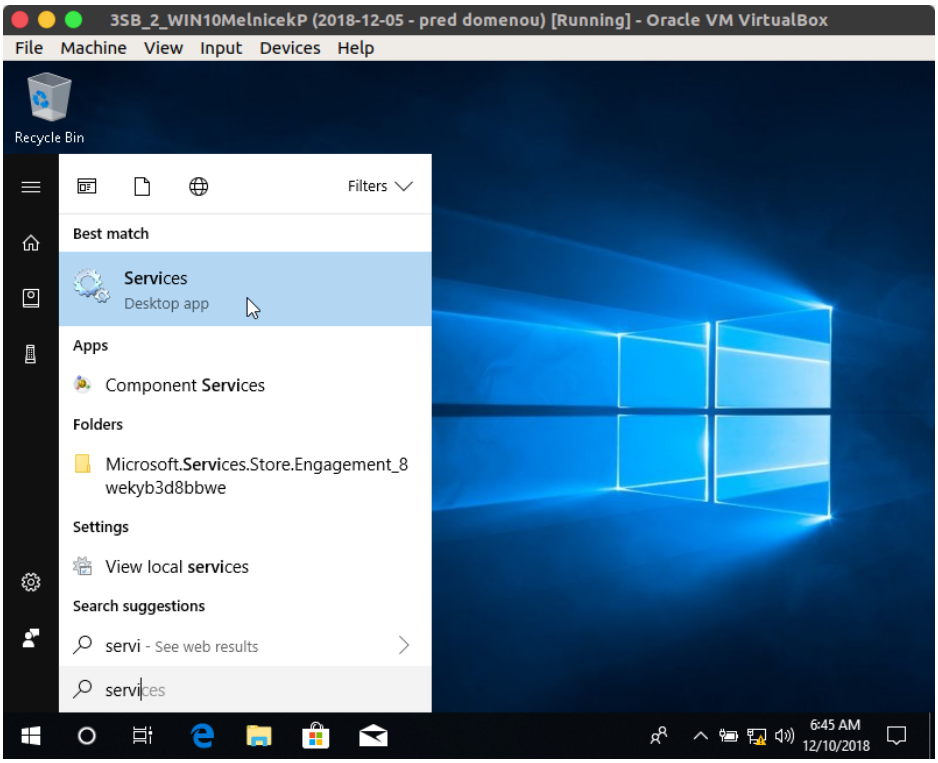
'Advanced system settings'



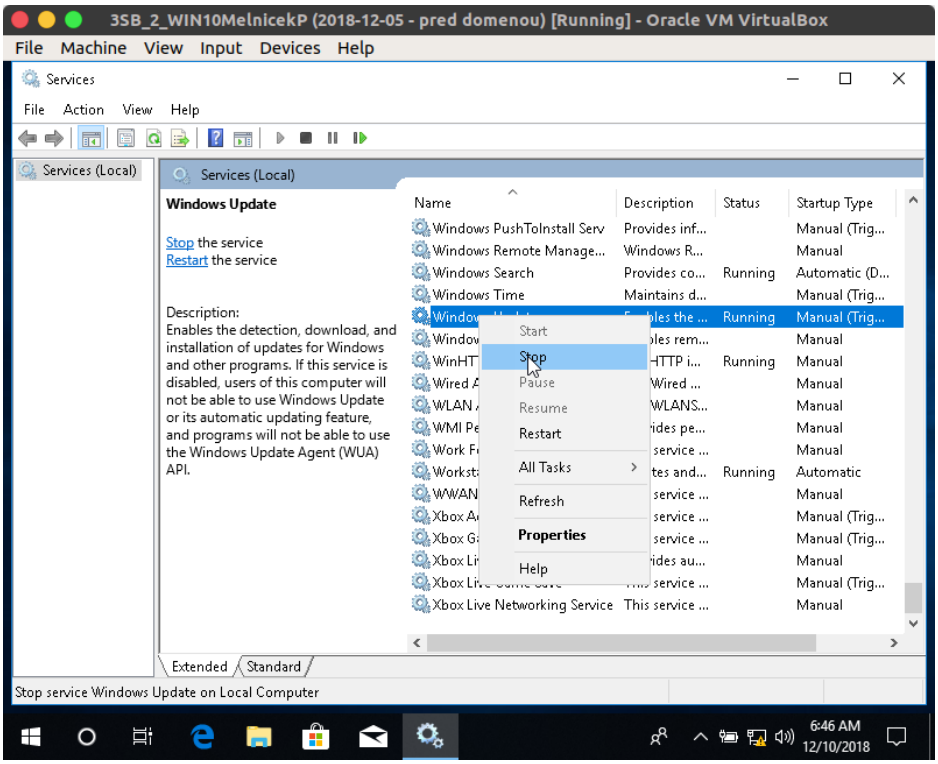
Nastavime computer description vo formate StudentX



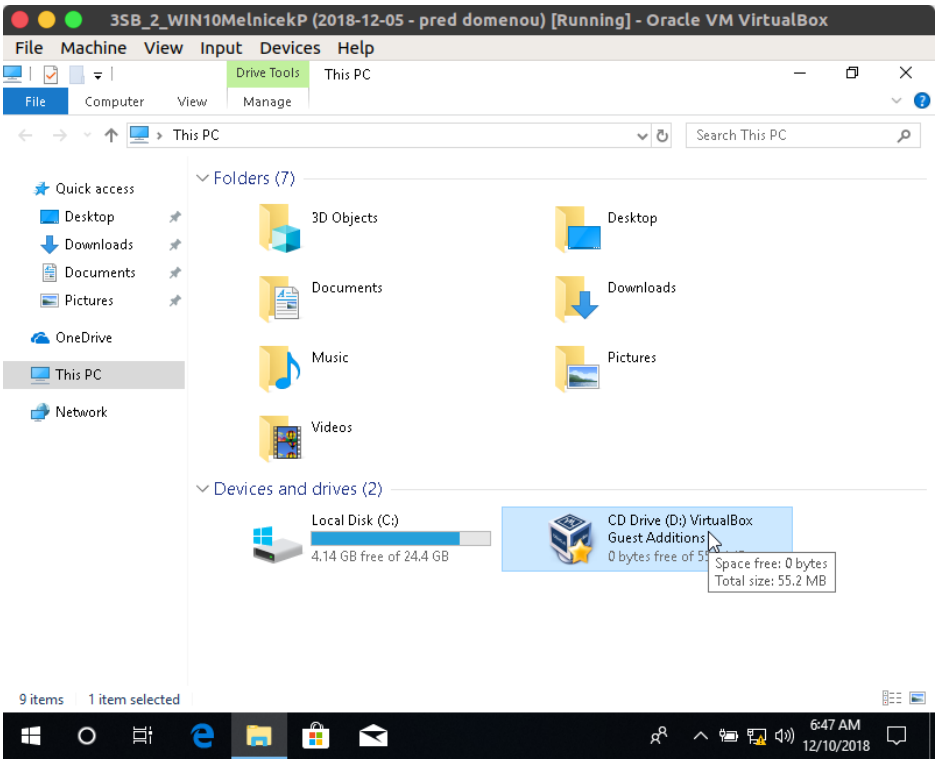
V ponuke Start vyhladame program Services



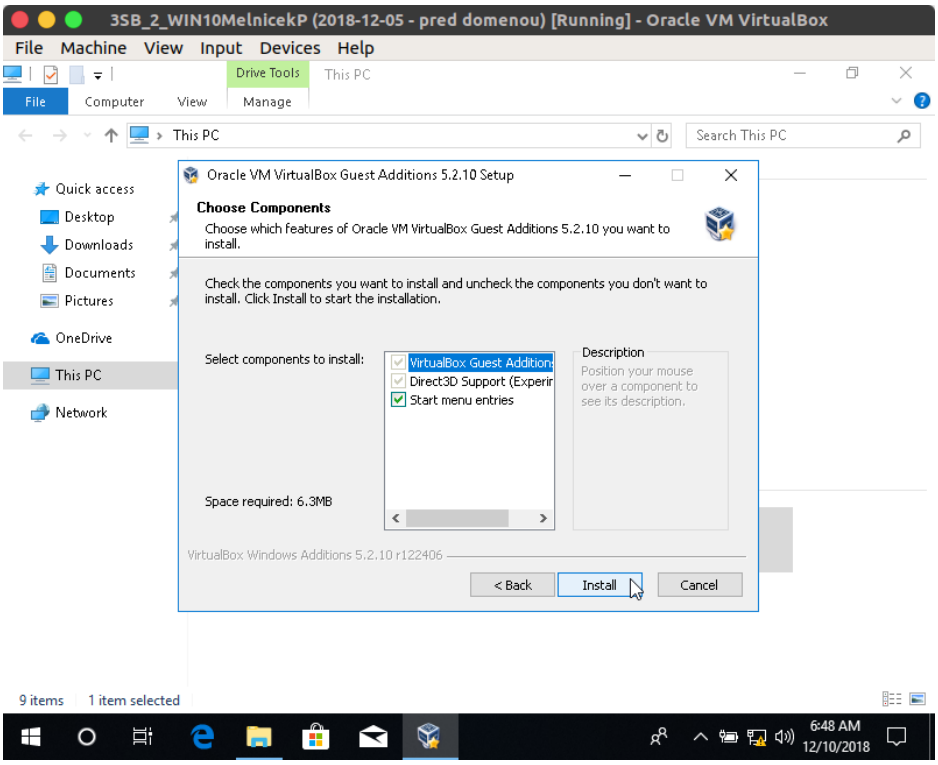
Stopneme 'Windows update'



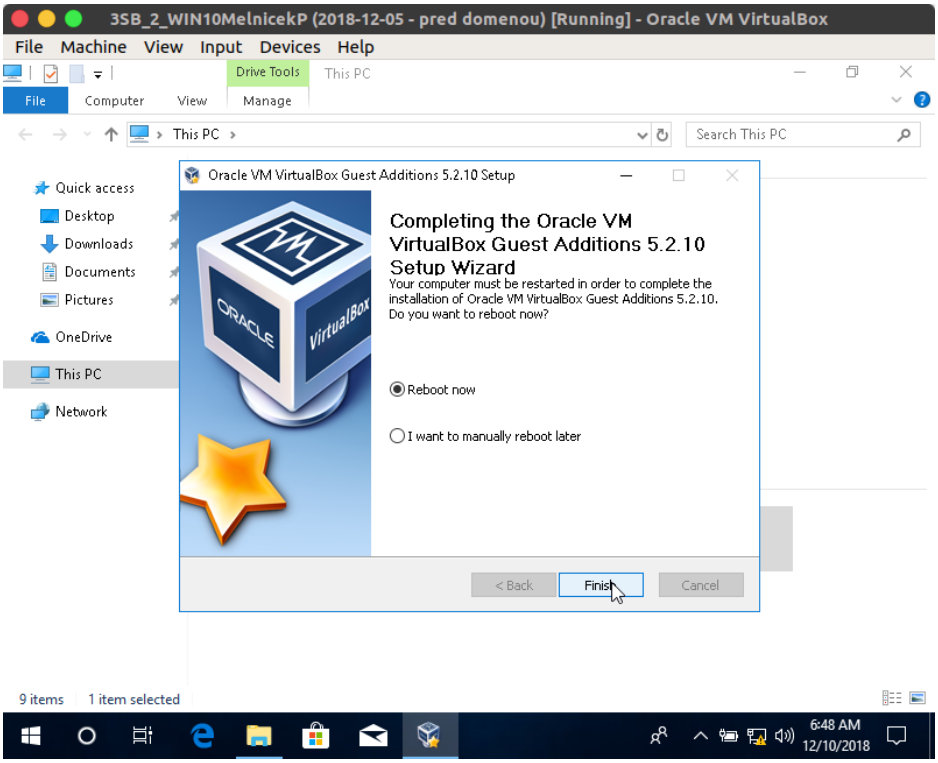
Pridame a spustime disk Guest Additions



Install

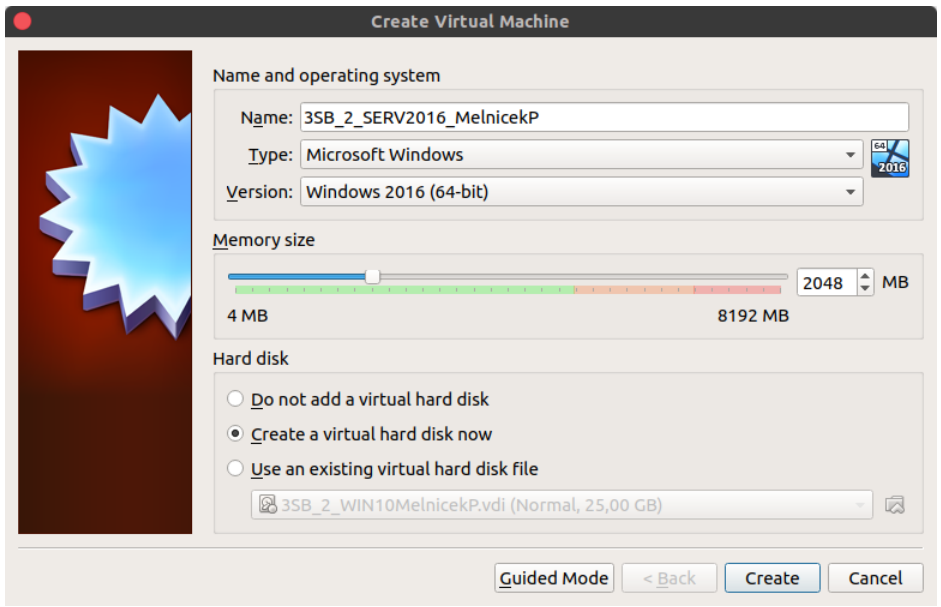


Finish

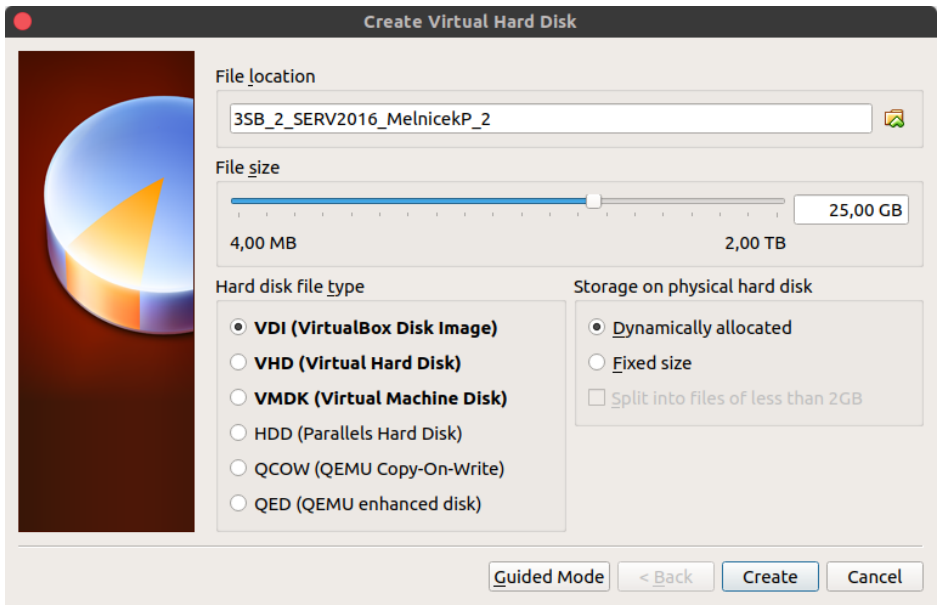


3 Inštalácia Windows Server 2012 EN R2

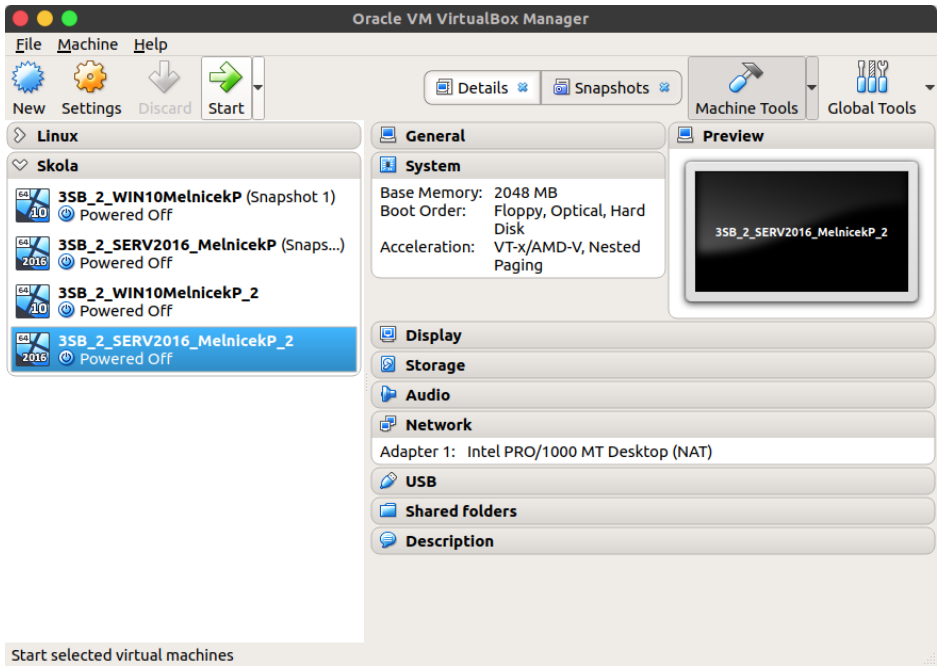
Nastavime polozky podla obrazka



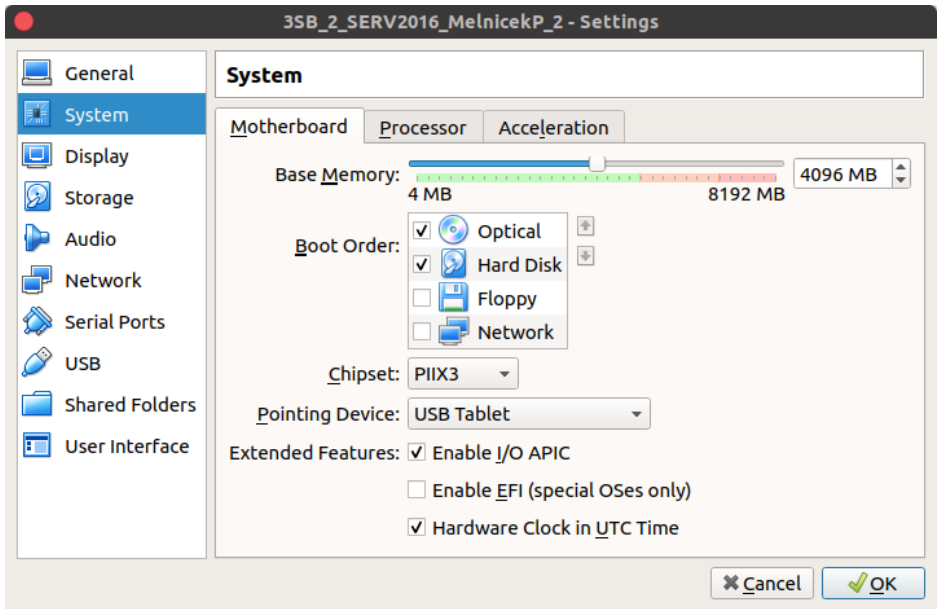
Nastavime polozky podla obrazka



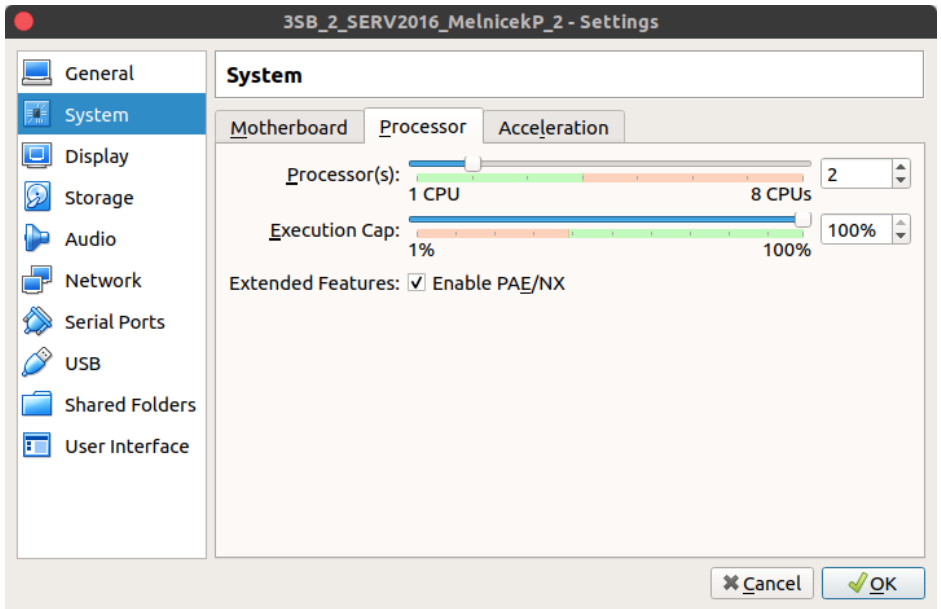
Otvorime 'Settings' novo vytvorenej VM



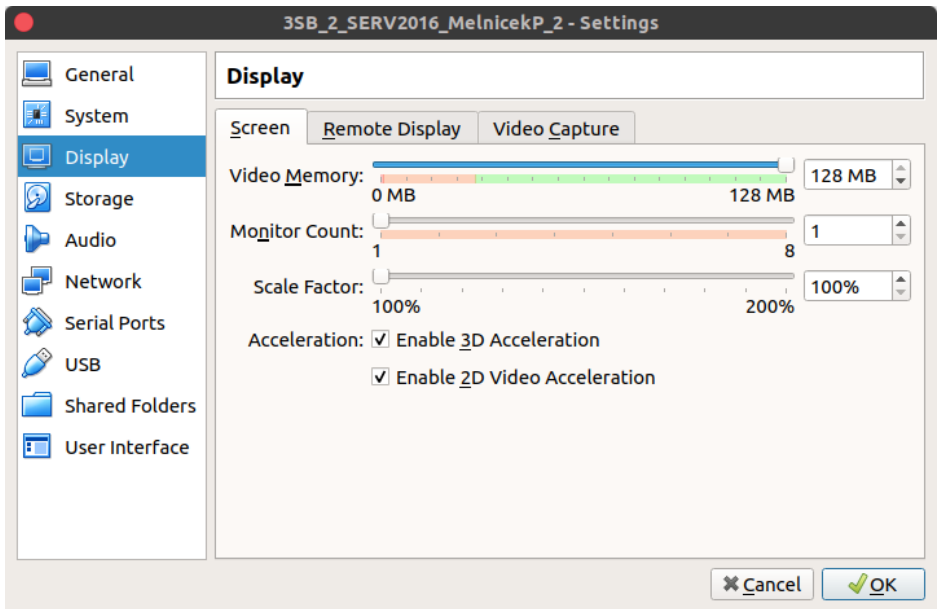
Nastavime polozky podla obrazka



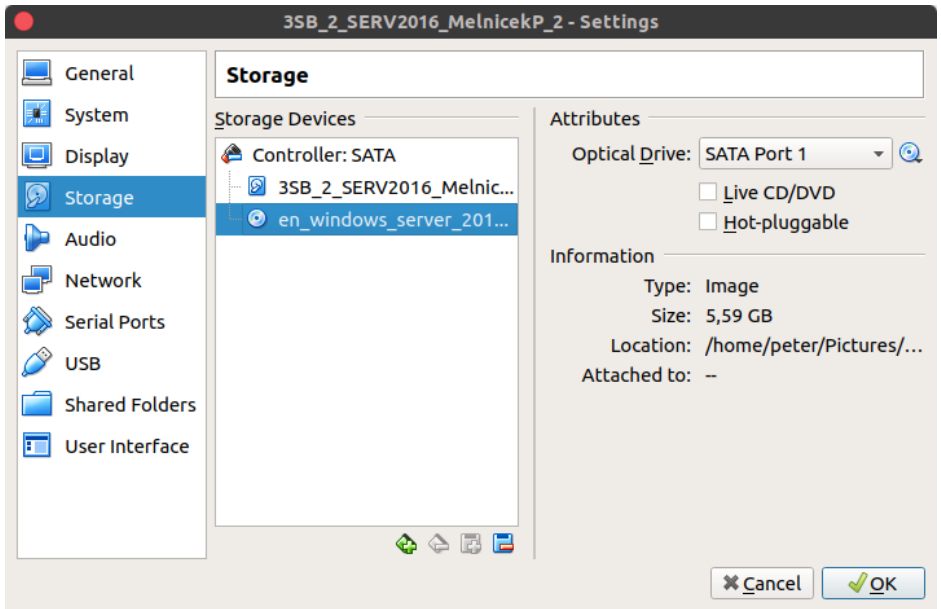
Nastavime polozky podla obrazka



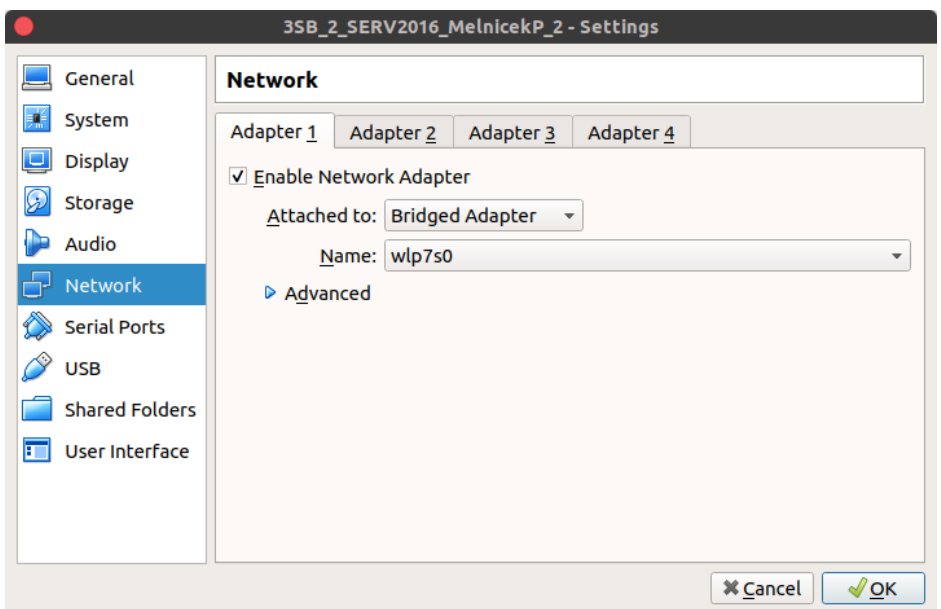
Nastavime polozky podla obrazka



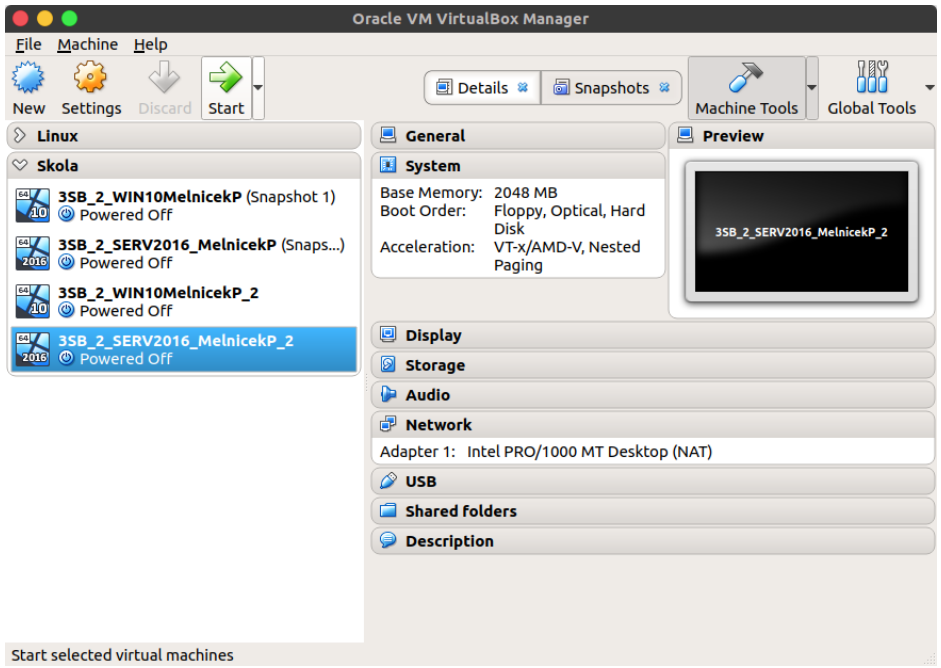
Vlozime instalacny disk Windows 2016



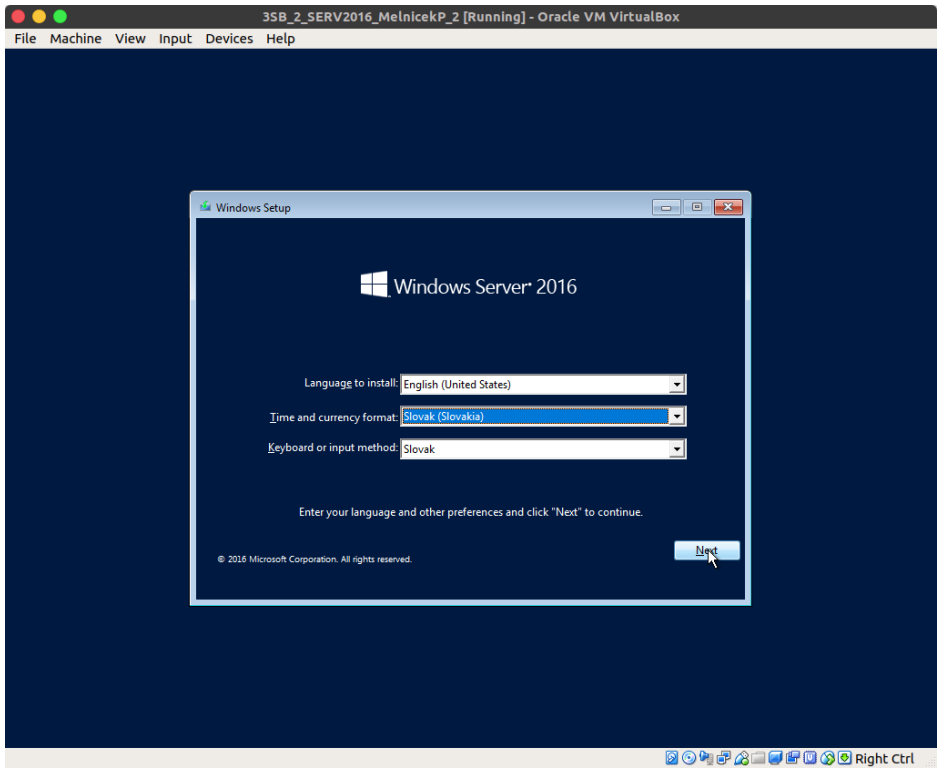
Pridame network adapter



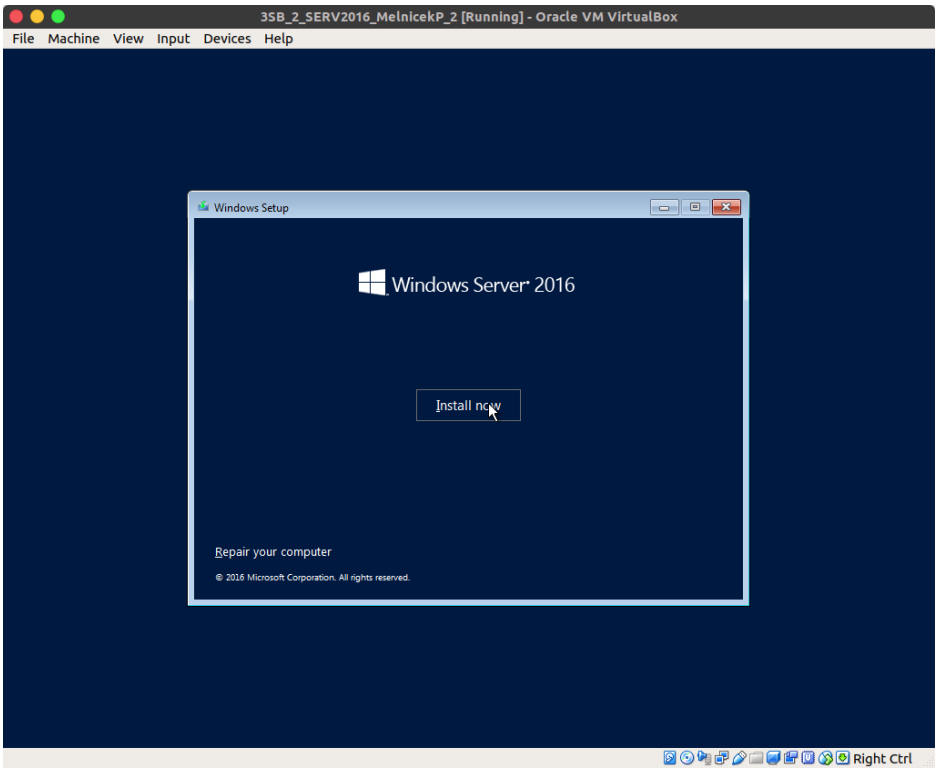
Spustime stlacenim 'Start' nasu VM



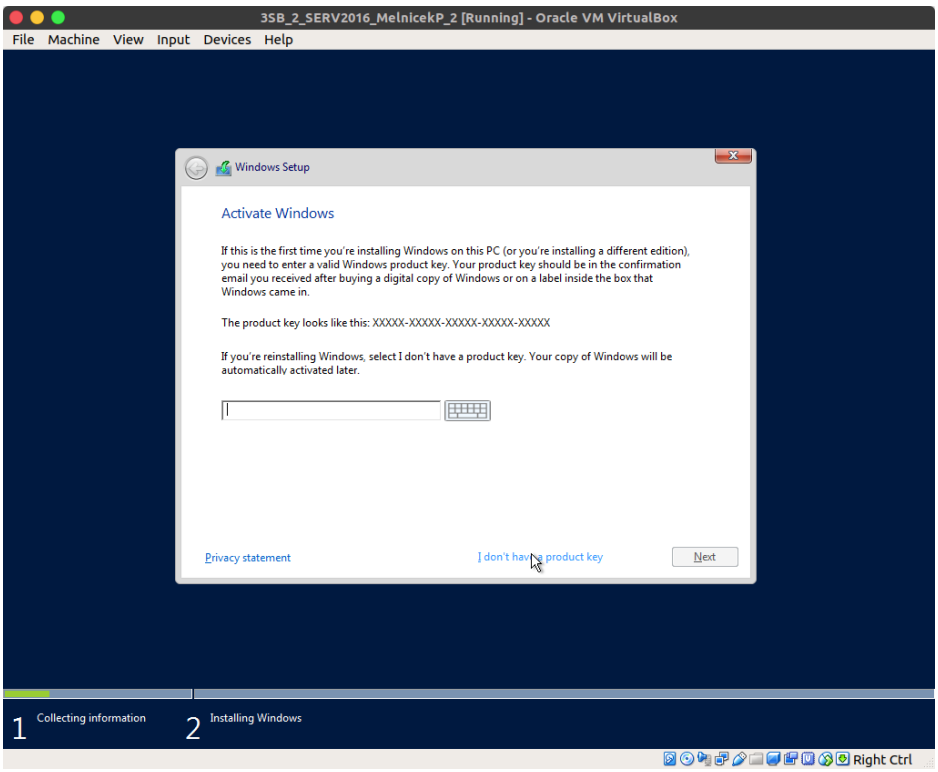
Podla obrazka a 'Next'



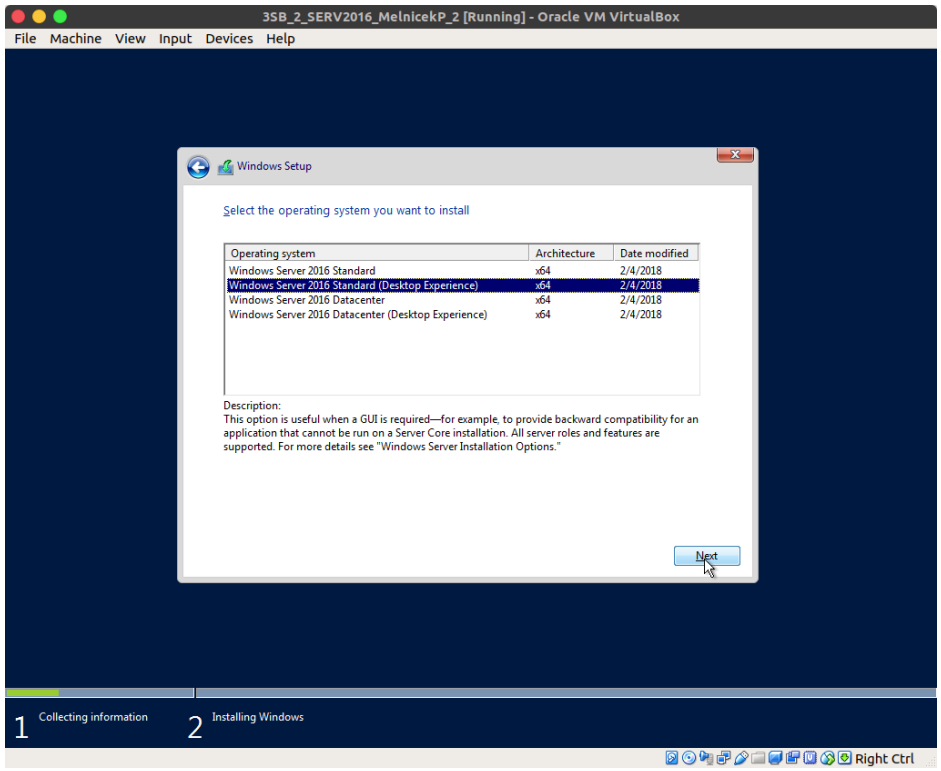
'Install now'



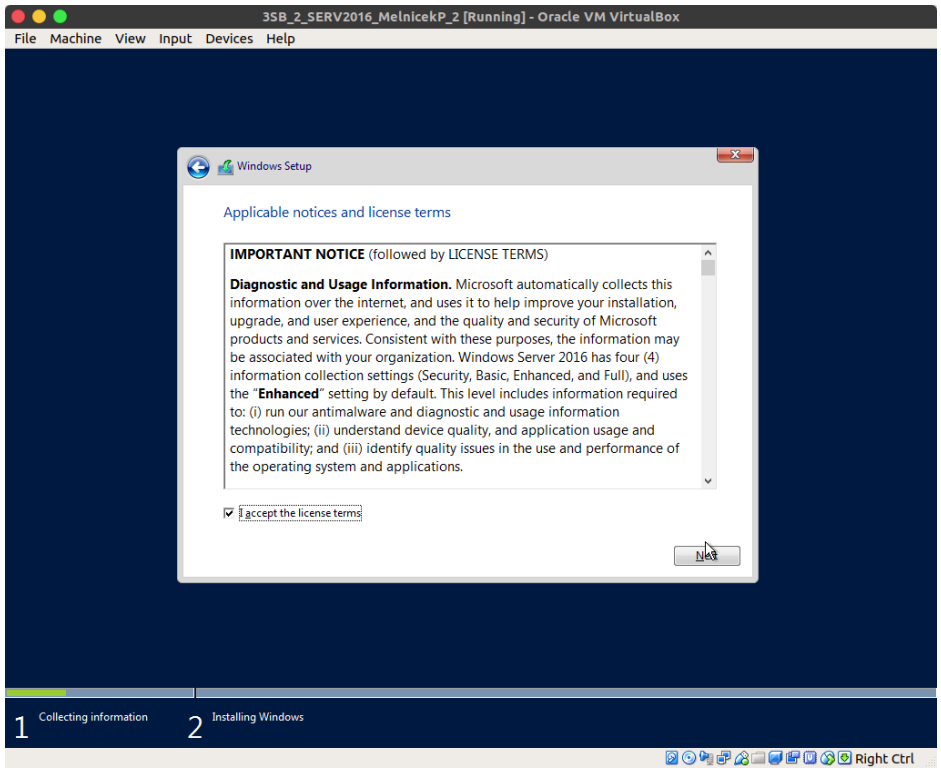
'I don't have a product key



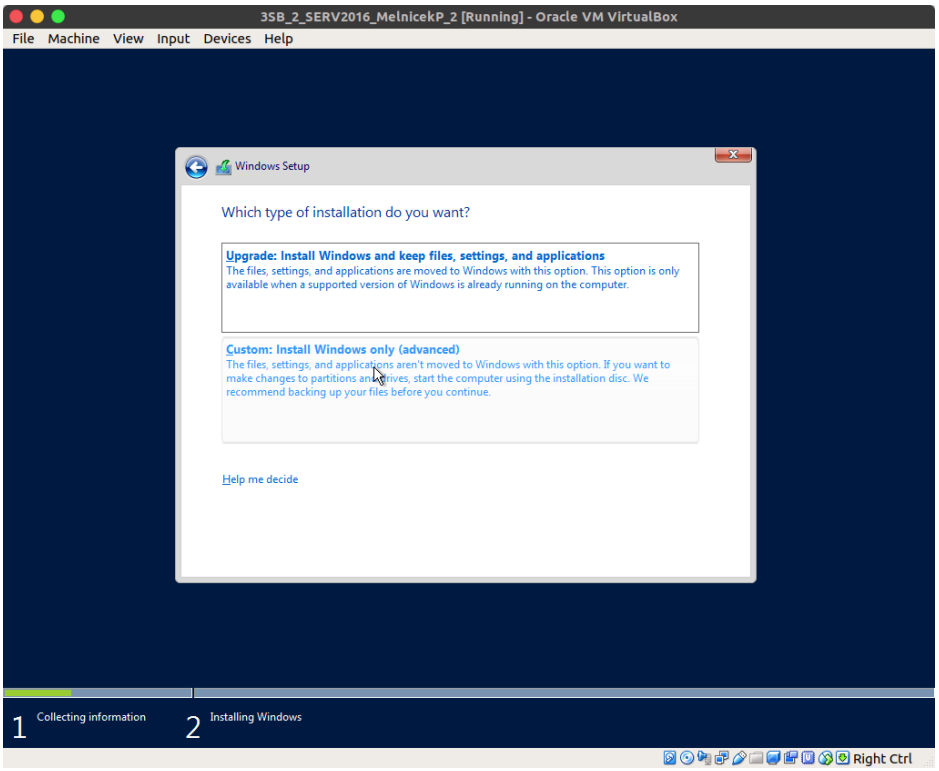
Standard (desktop experience) -> 'Next'



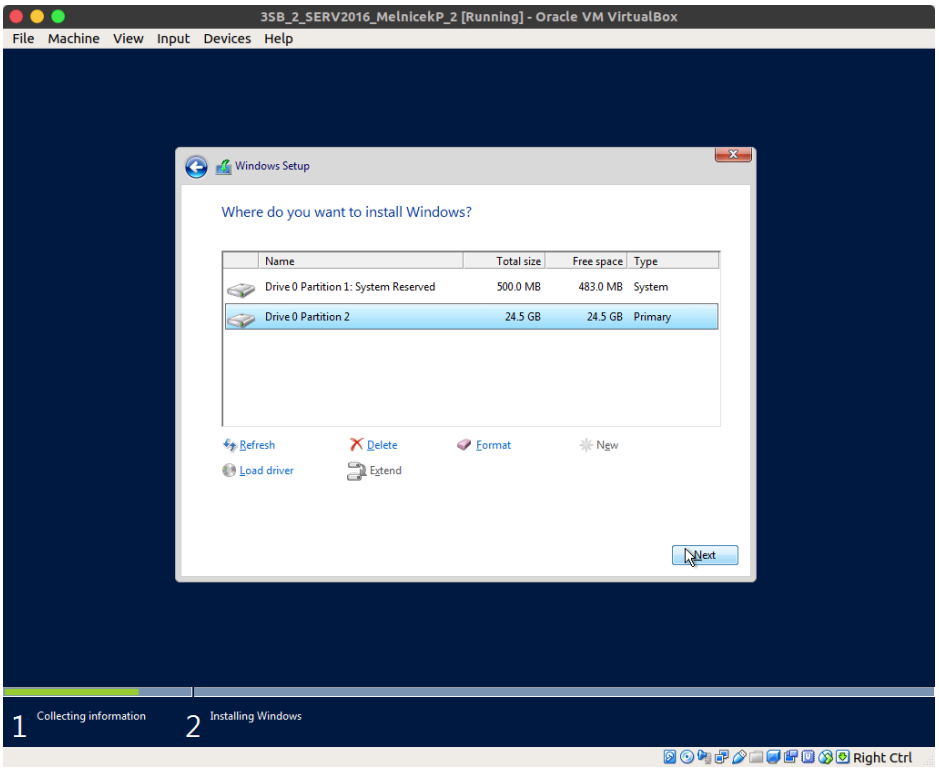
Precitat a ak suhlasime tak dame fajku a pokracujeme s -> 'Next'



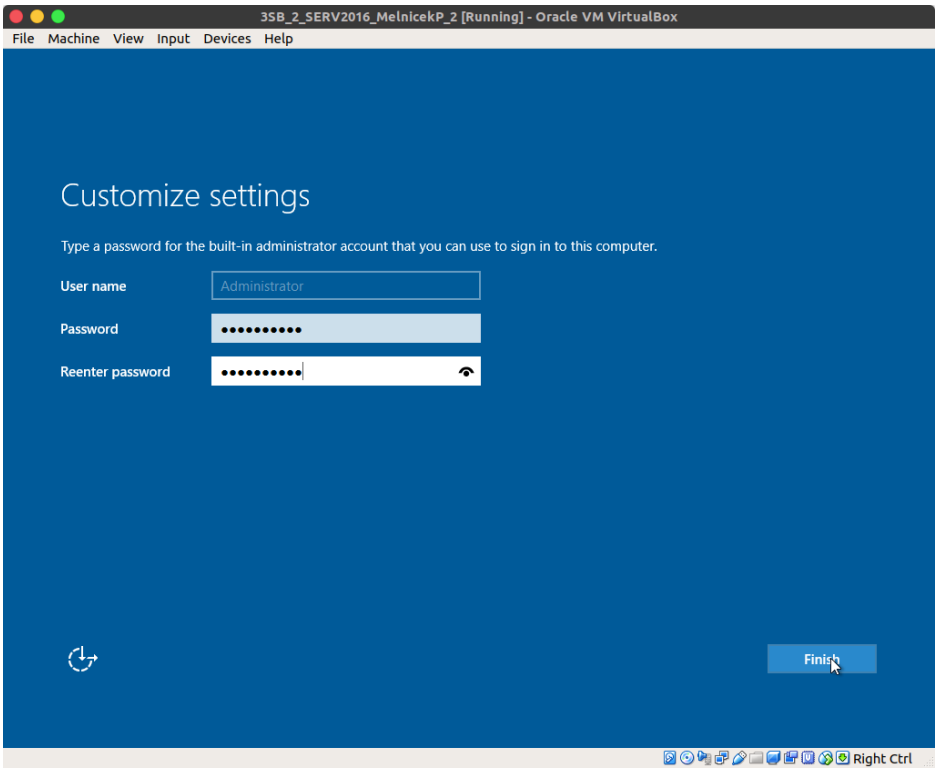
'Custom'



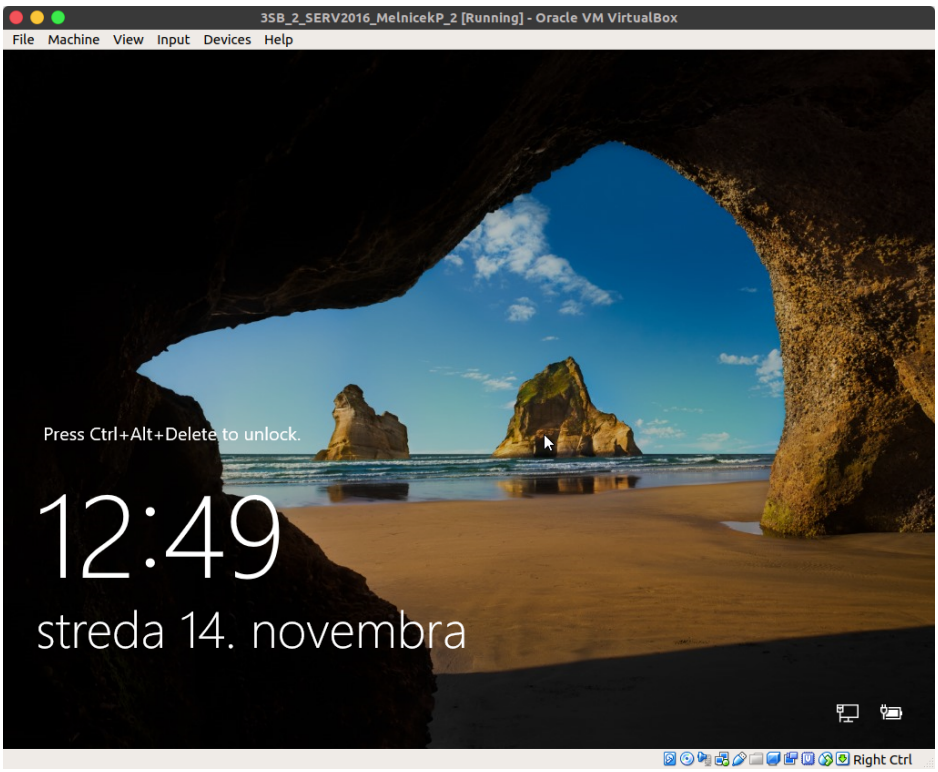
'New' -> 'Next'



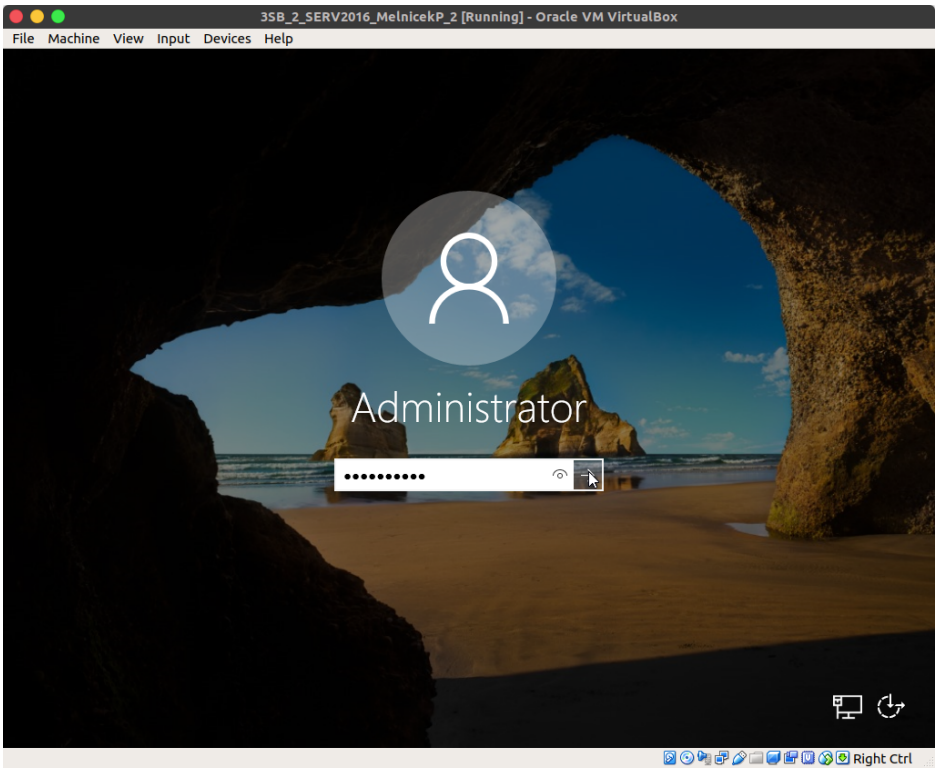
Silne heslo



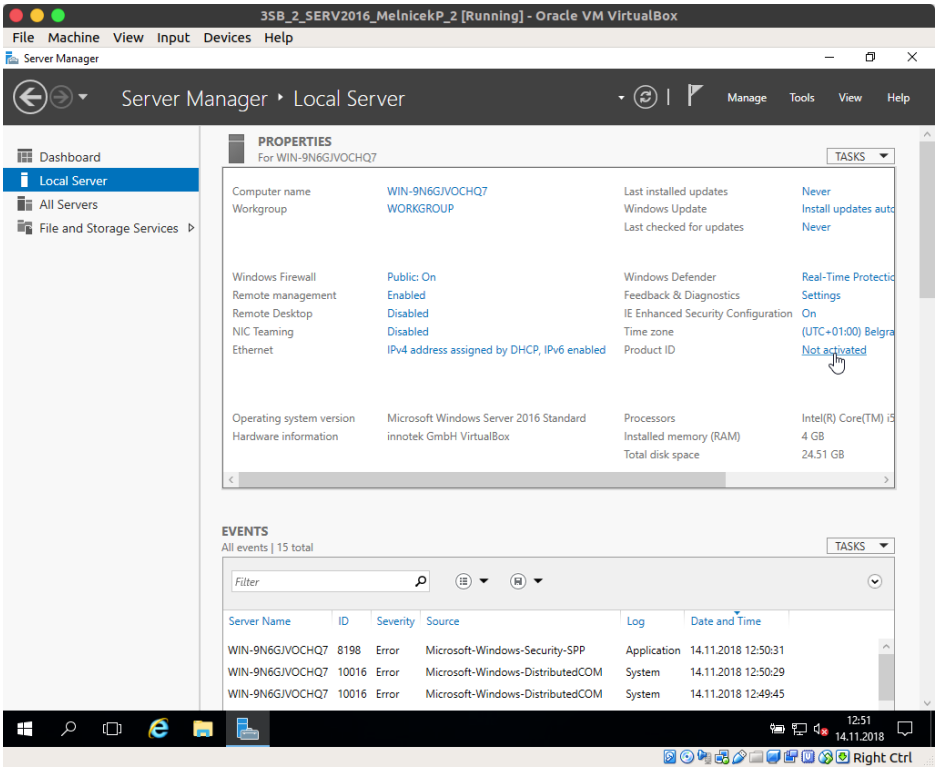
'Host + Delete', Host = pravy ctrl



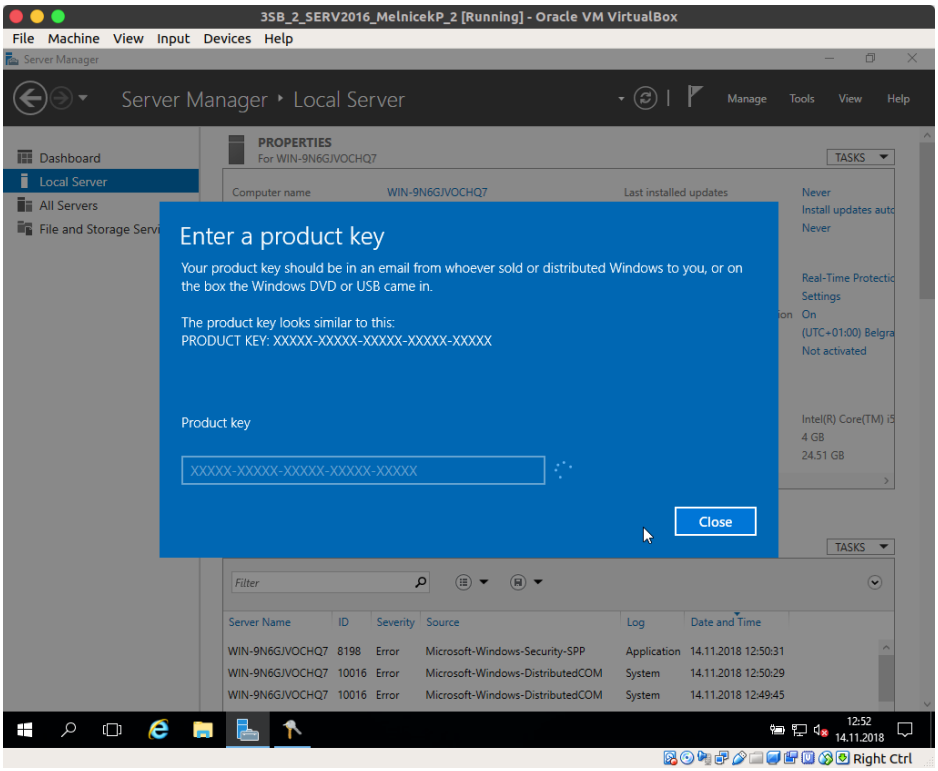
Prihlasime sa



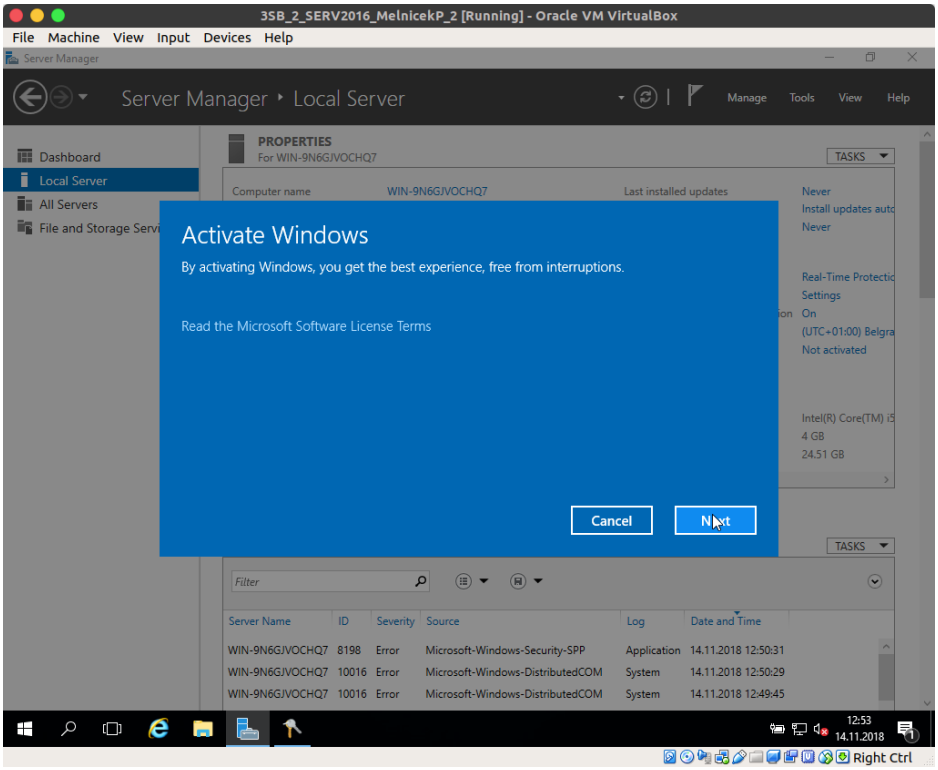
Klikneme na 'Not activated'



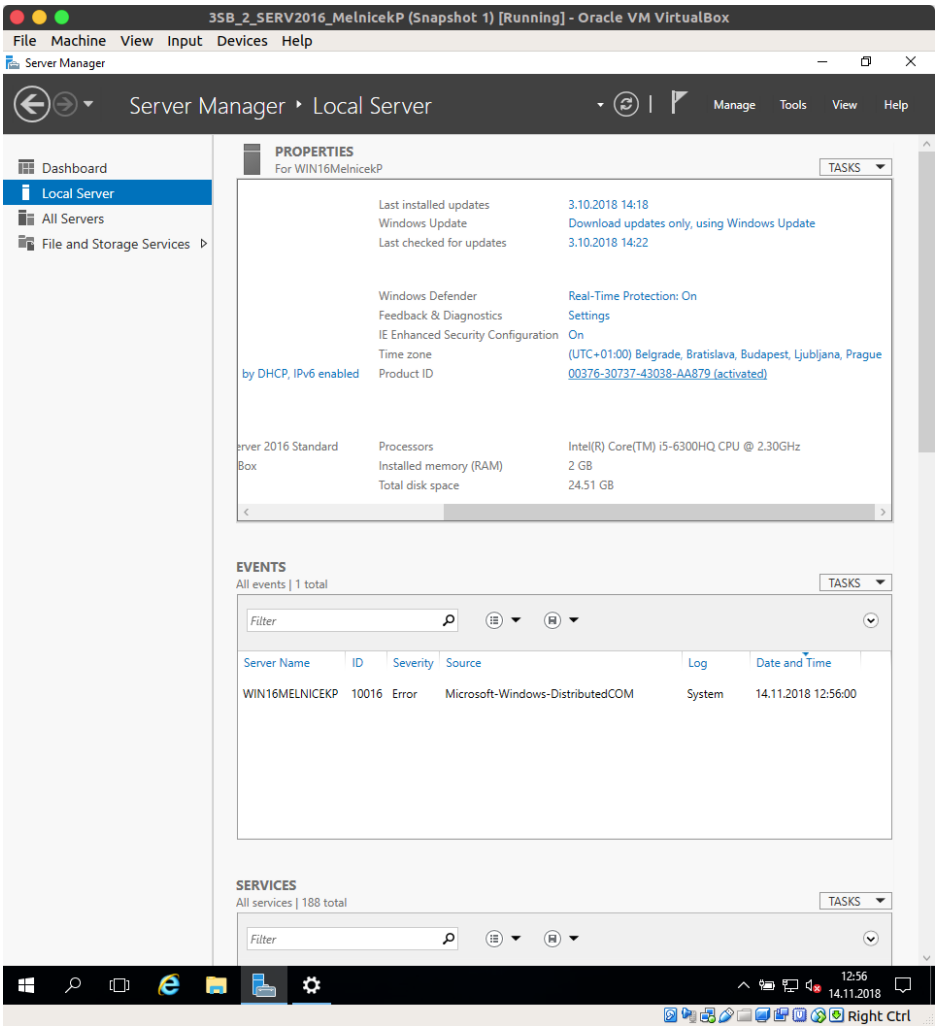
Vlozime nas product key



'Next'

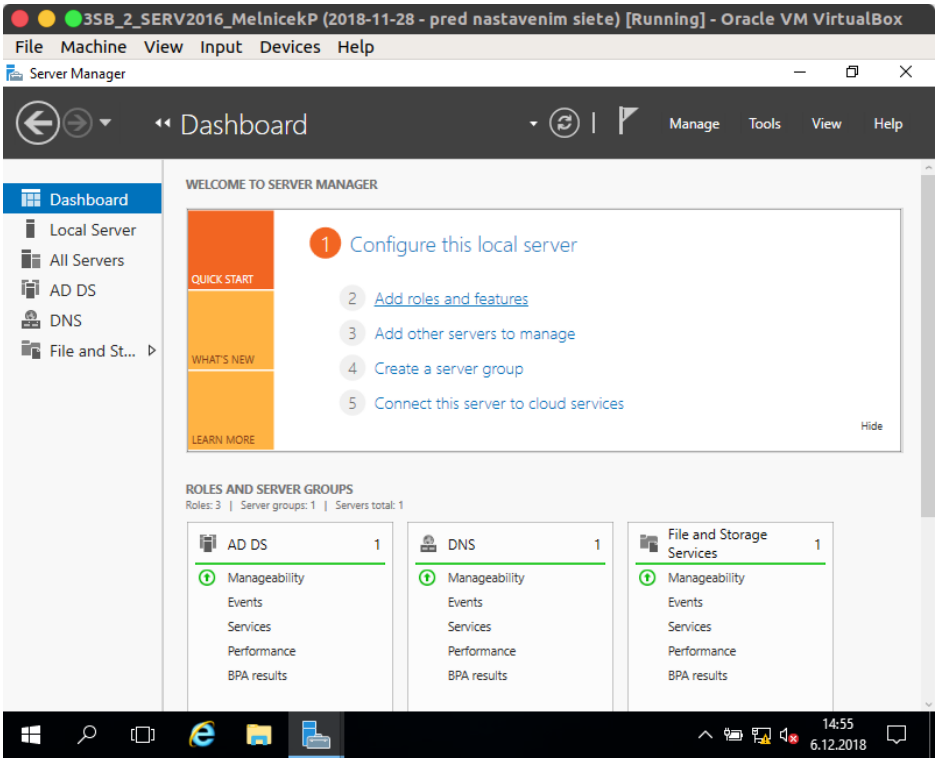


Nas server je aktivoany :D

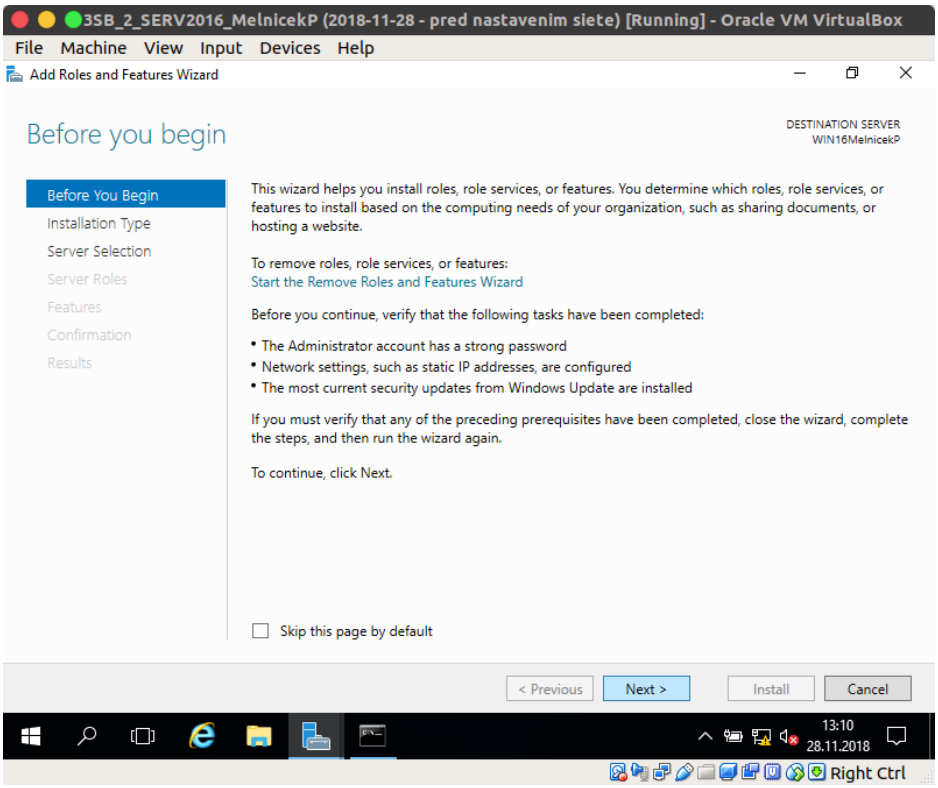


4 Inštalácia Active Directory v Systéme Windows Server 2012

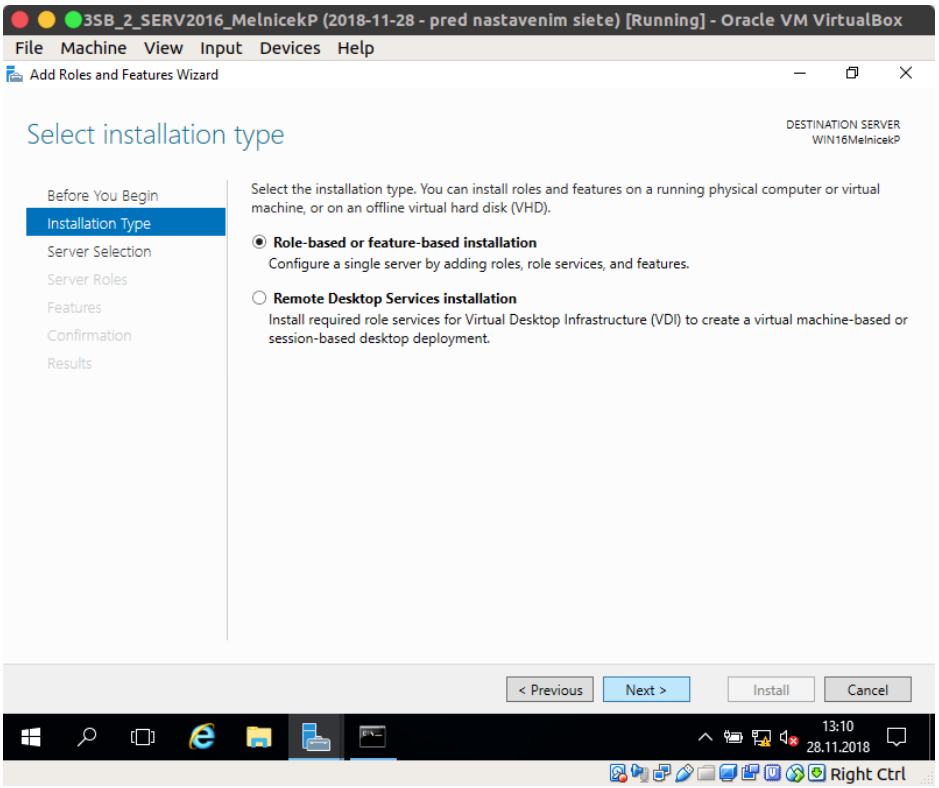
Add roles and features



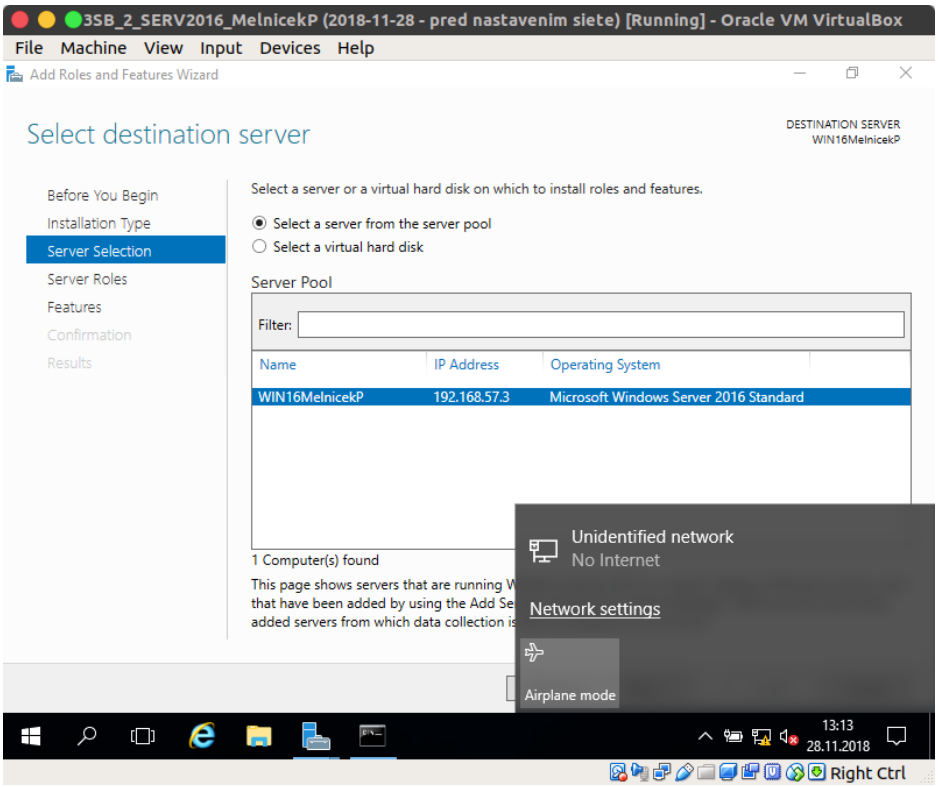
next



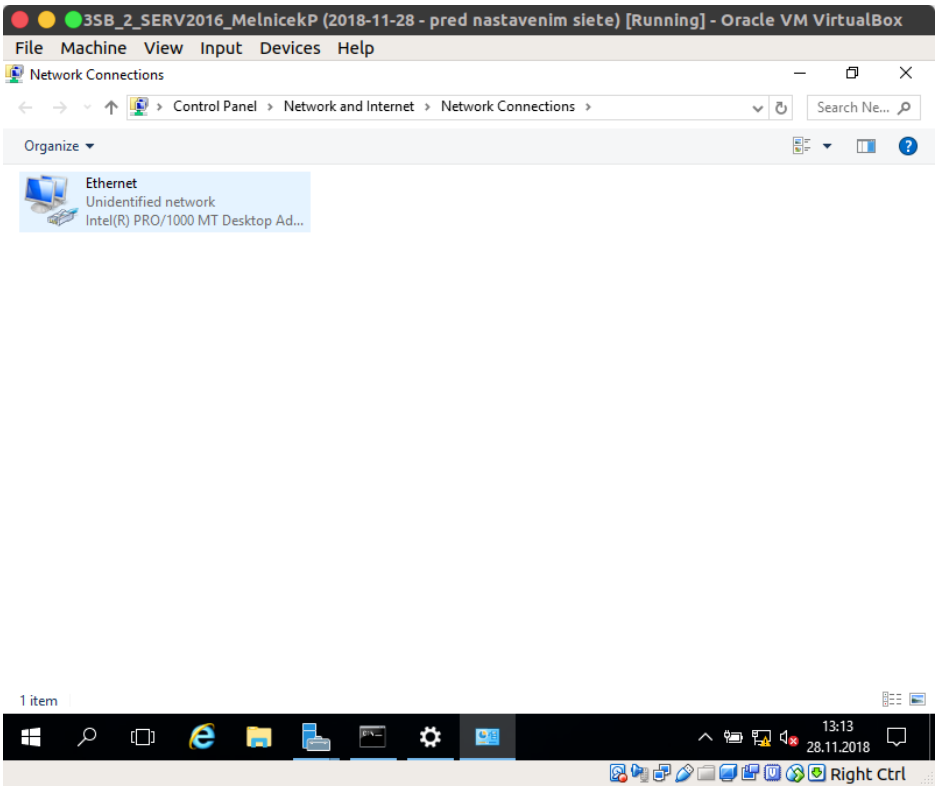
next



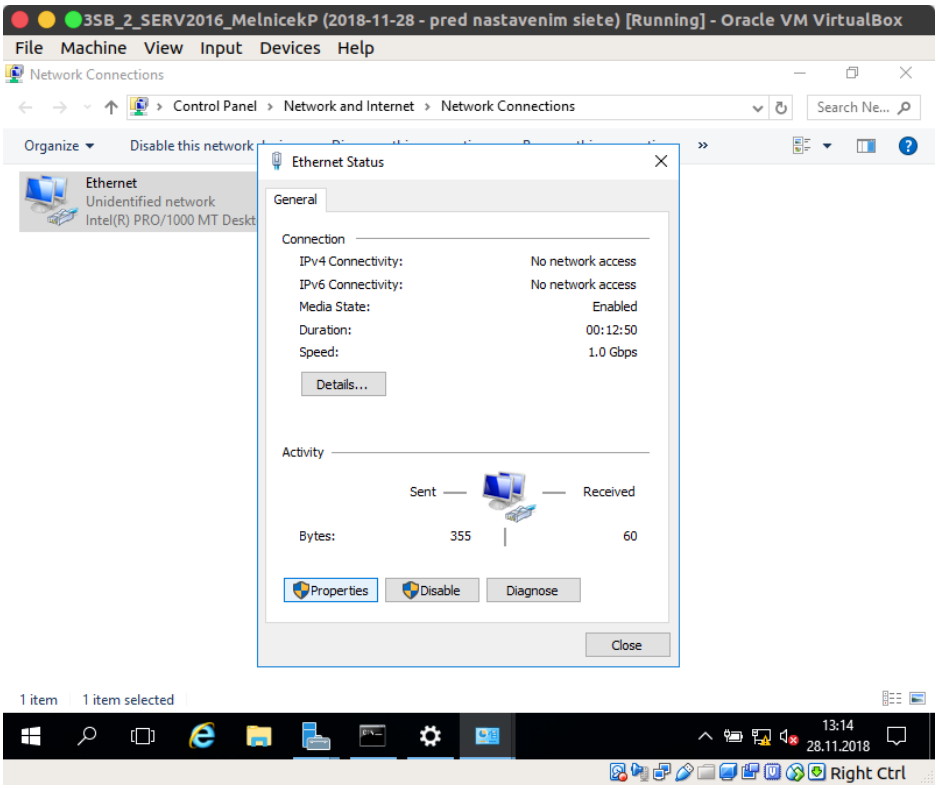
network settings



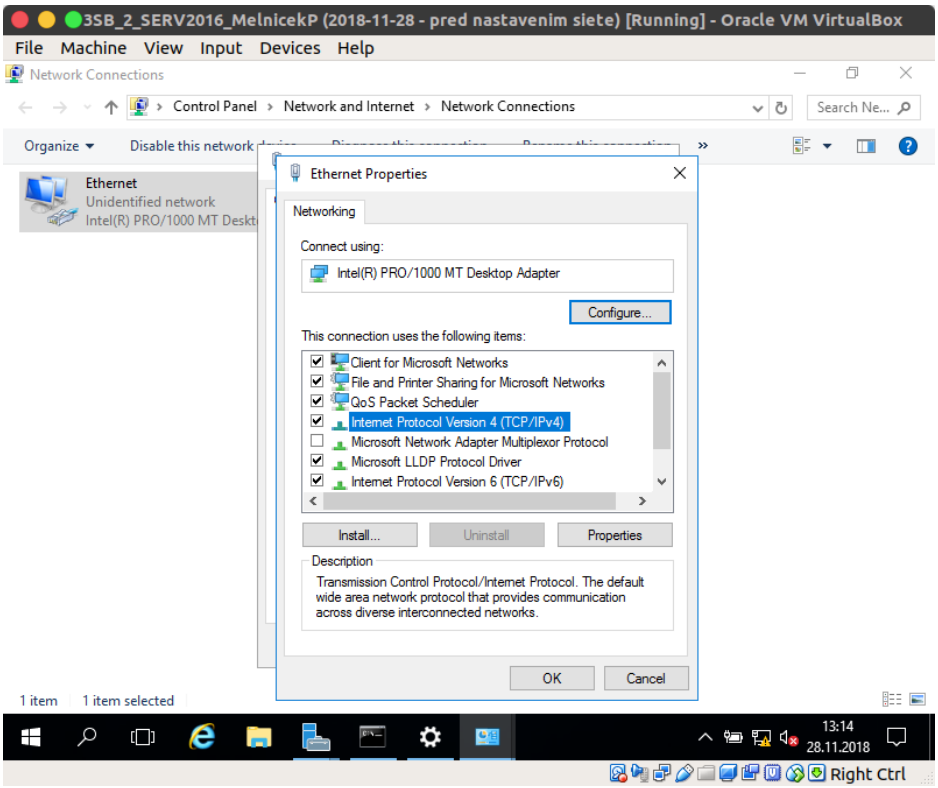
Properties



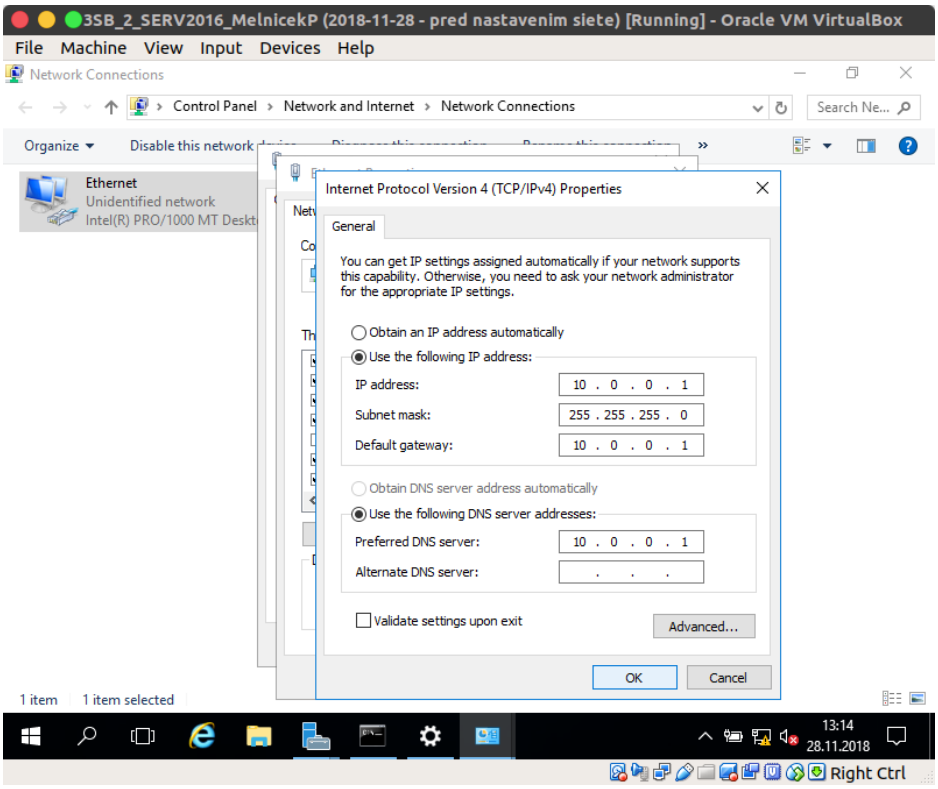
Ethernet



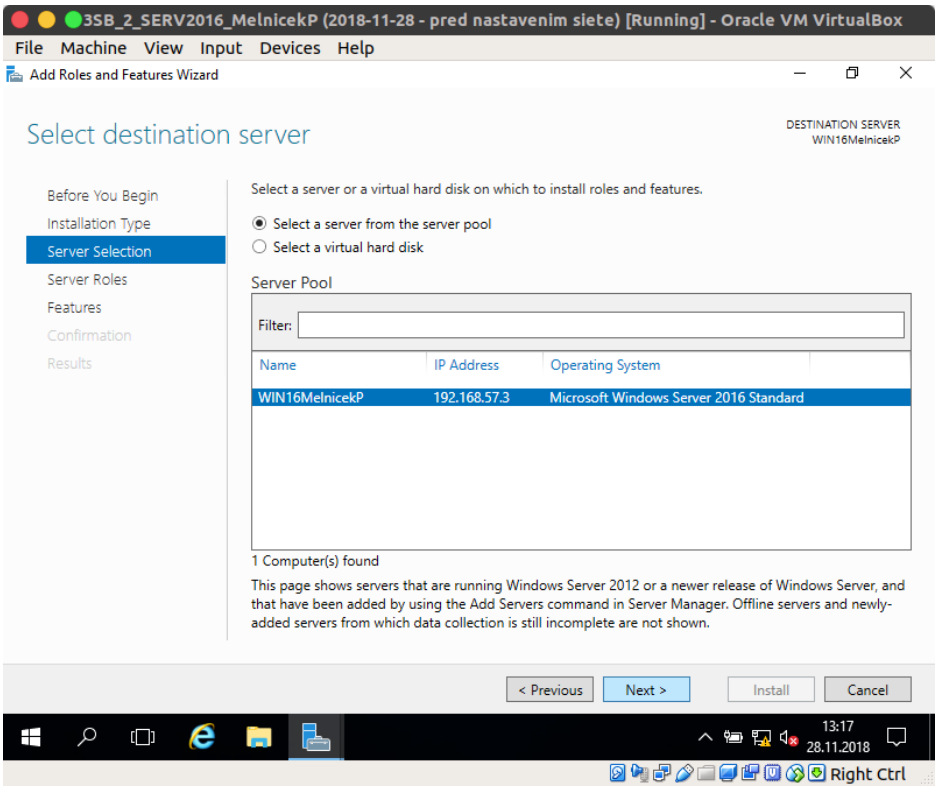
IPv4



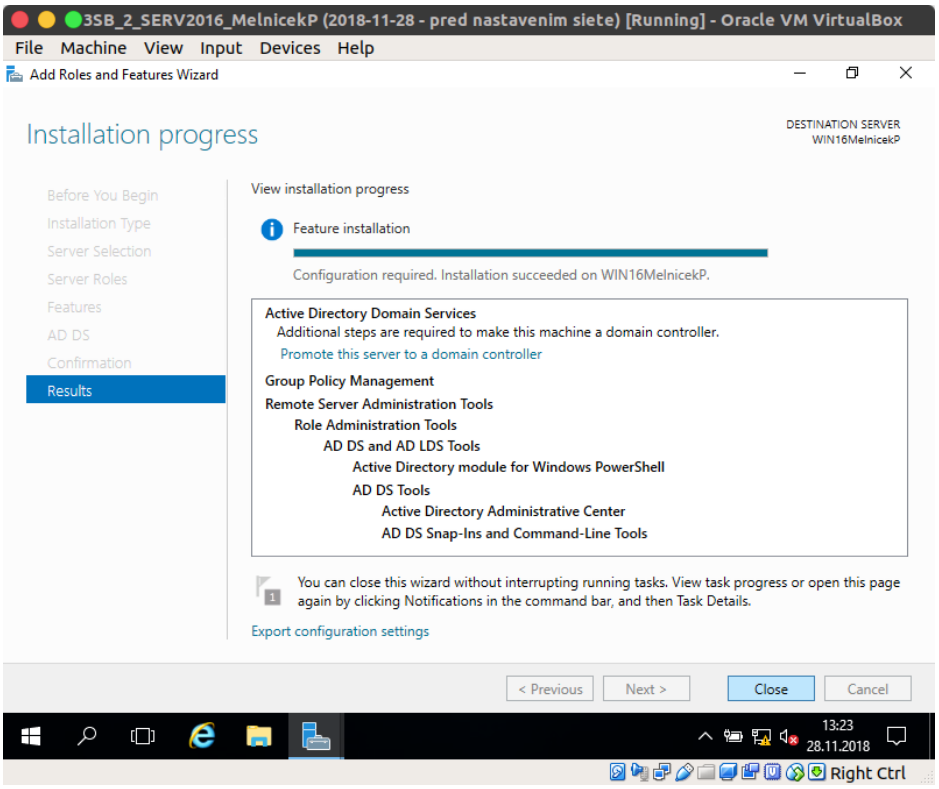
Nastavime podla obrazka



Next a zaskrtneme active directoty

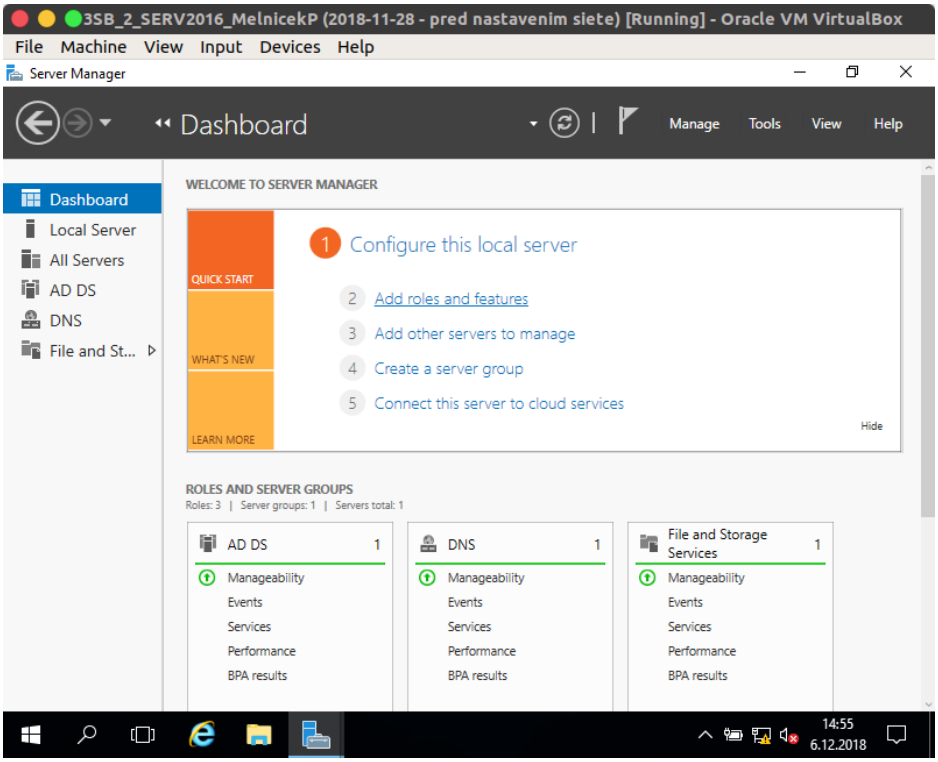


Po instalovani 'close'



5 Pridanie Role Servera DNS

Add roles and features



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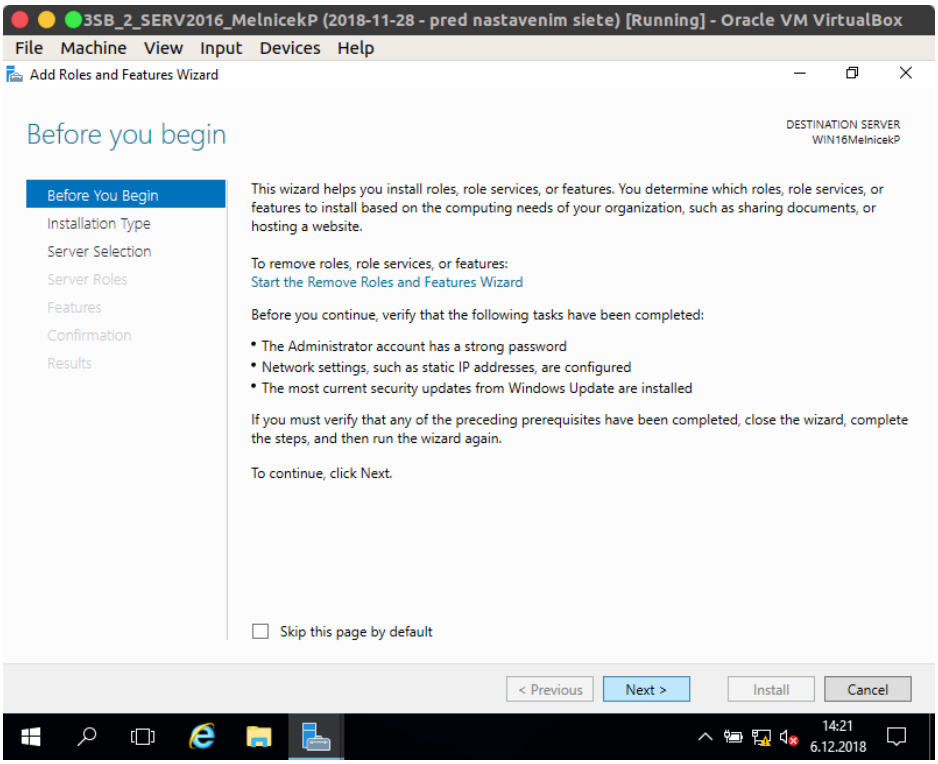

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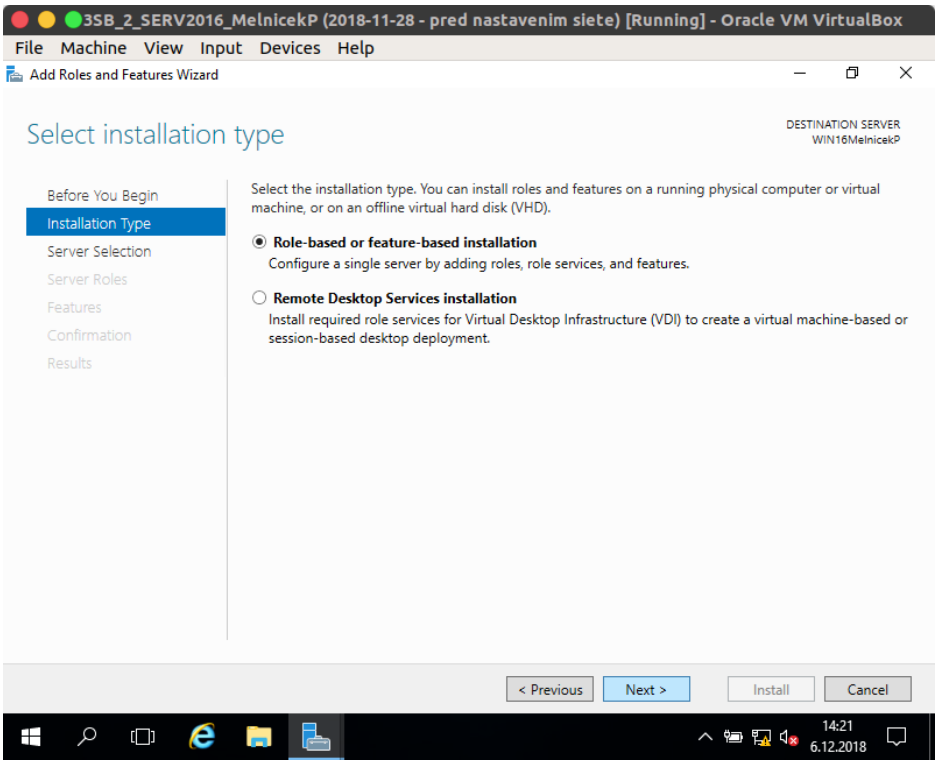
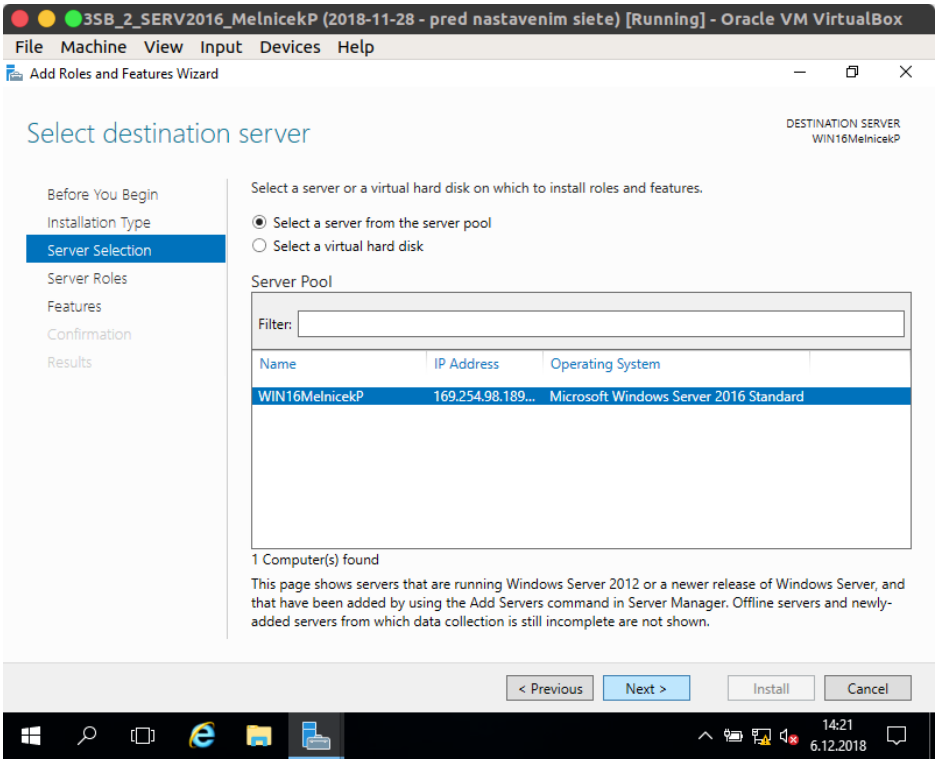
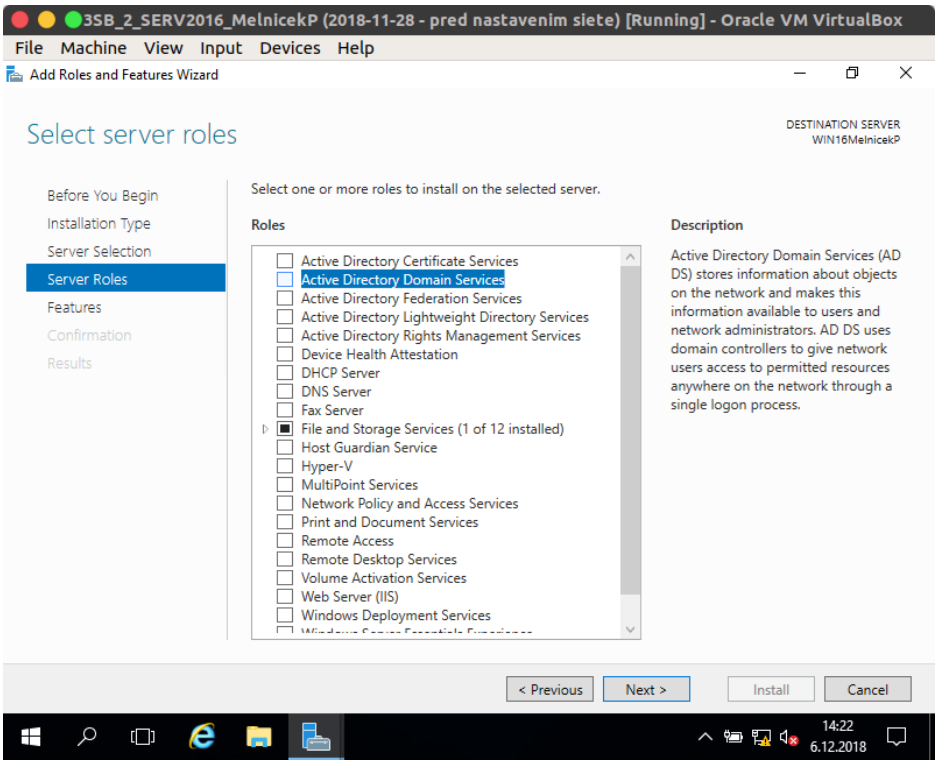

3SB_2_SERV2016_MelnicekP (2018-11-28 - pred nastavenim siete) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Add Roles and Features Wizard
Select installation type
DESTINATION SERVER
WIN16MelnicekP
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).
Role-based or feature-based installation
Configure a single server by adding roles, role services, and features.
Remote Desktop Services installation
Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.
< Previous
Next >
Install
Cancel
14:21
6.12.2018

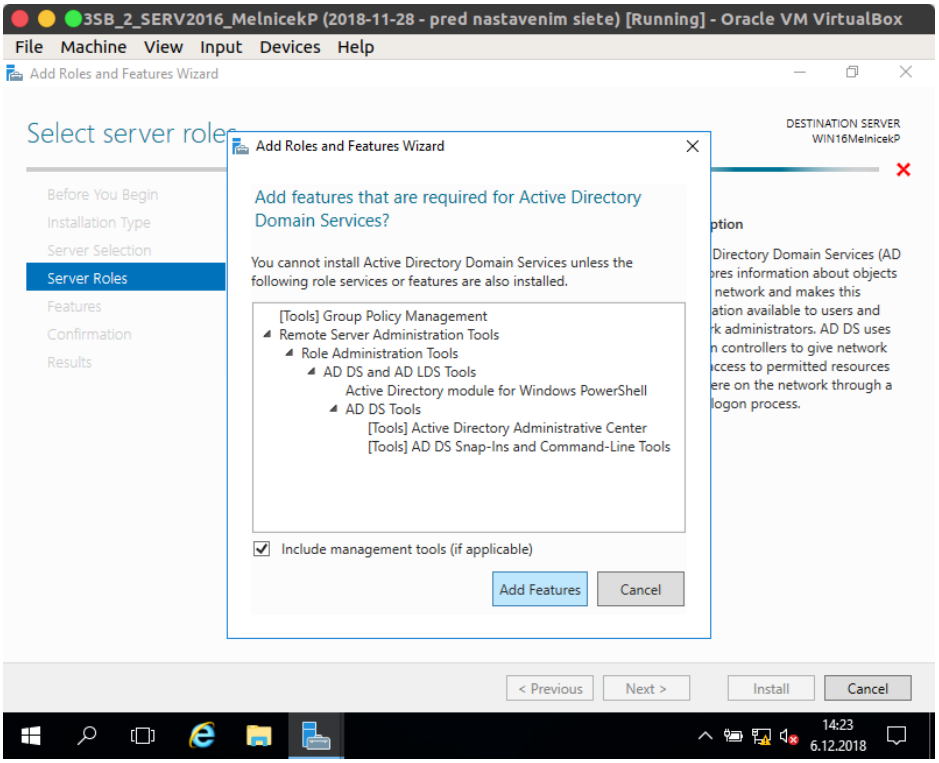
Next


3SB_2_SERV2016_MelnicekP (2018-11-28 - pred nastavenim siete) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Add Roles and Features Wizard
Select destination server
DESTINATION SERVER
WIN16MelnicekP
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select a server or a virtual hard disk on which to install roles and features.
Select a server from the server pool
Select a virtual hard disk
Server Pool
Filter:
Name
IP Address
Operating System
WIN16MelnicekP
169.254.98.189...
Microsoft Windows Server 2016 Standard
1 Computer(s) found
This page shows servers that are running Windows Server 2012 or a newer release of Windows Server, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.
< Previous
Next >
Install
Cancel
14:21
6.12.2018

ADDS



ADD FEATURES



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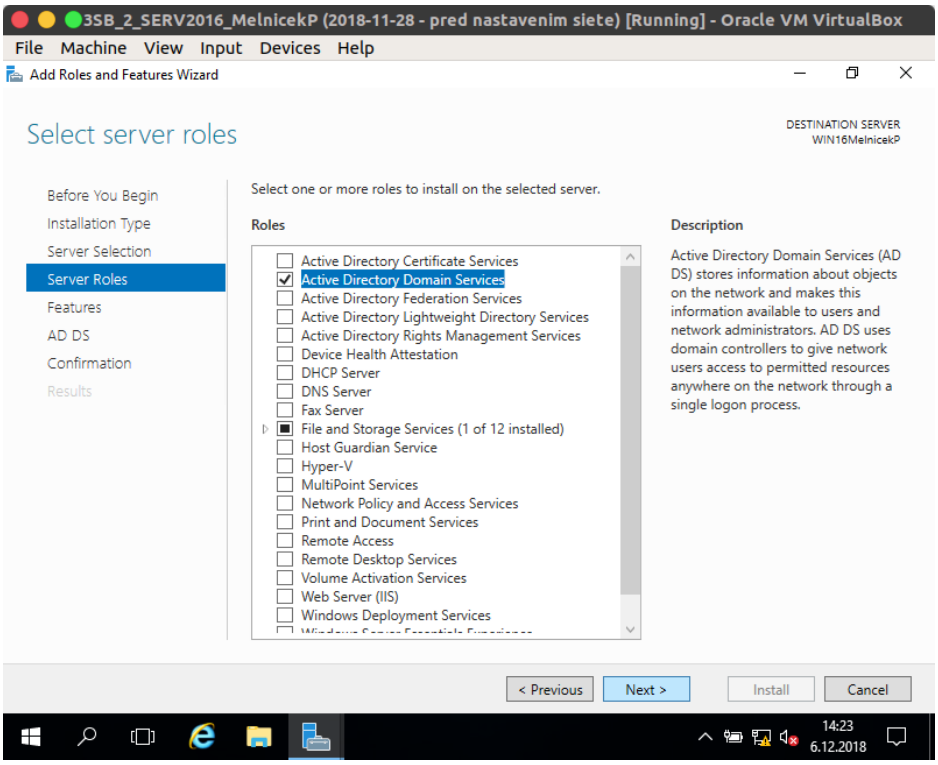
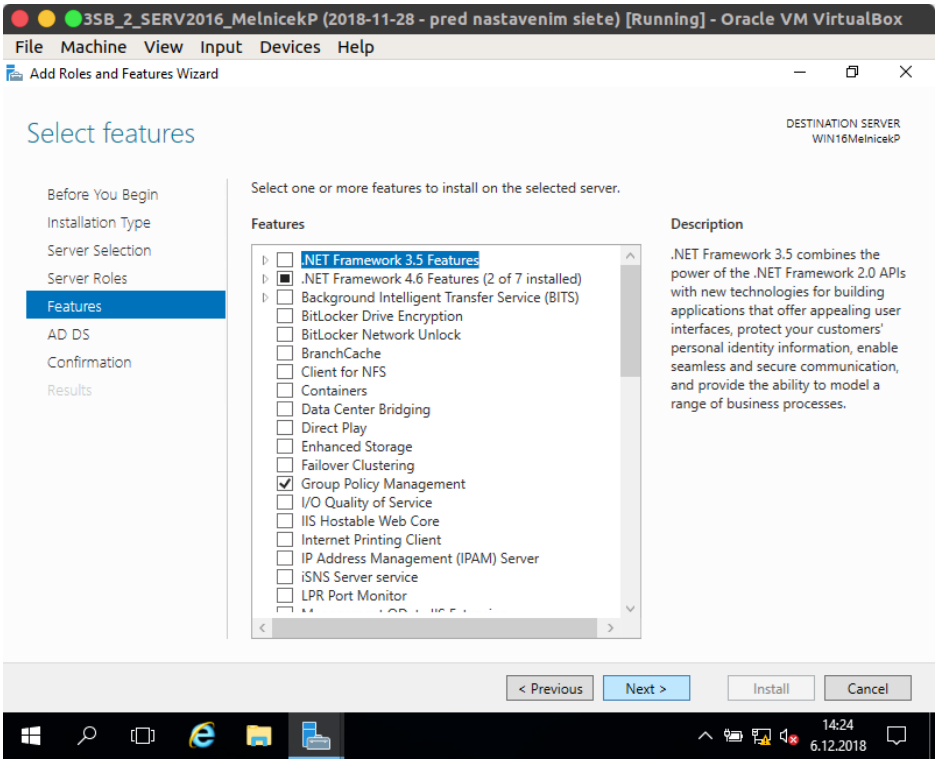
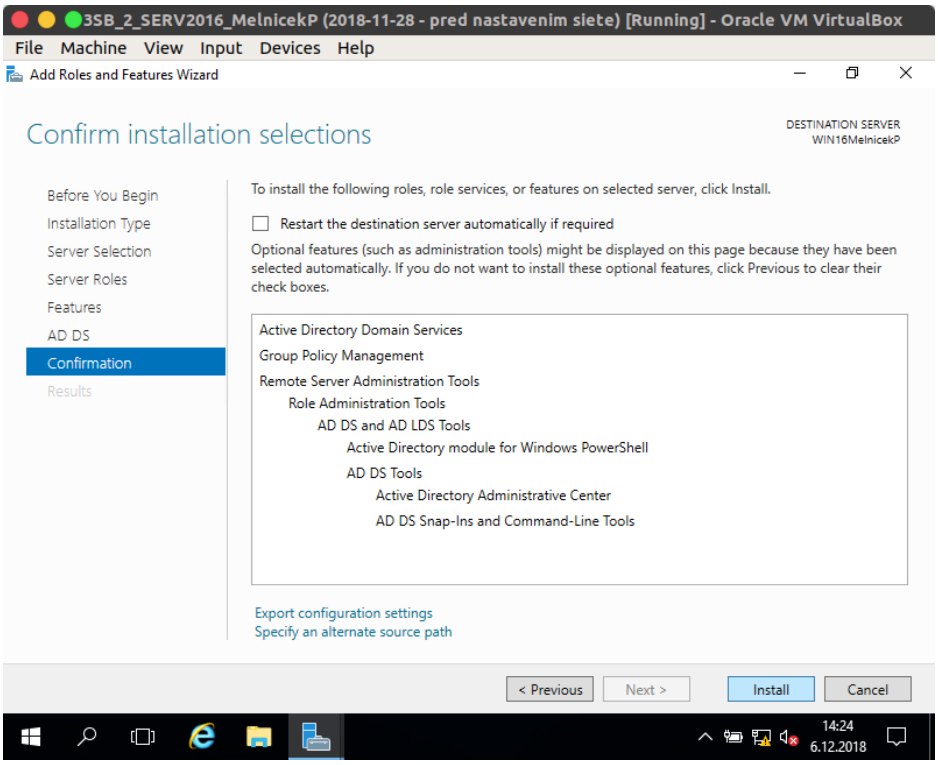


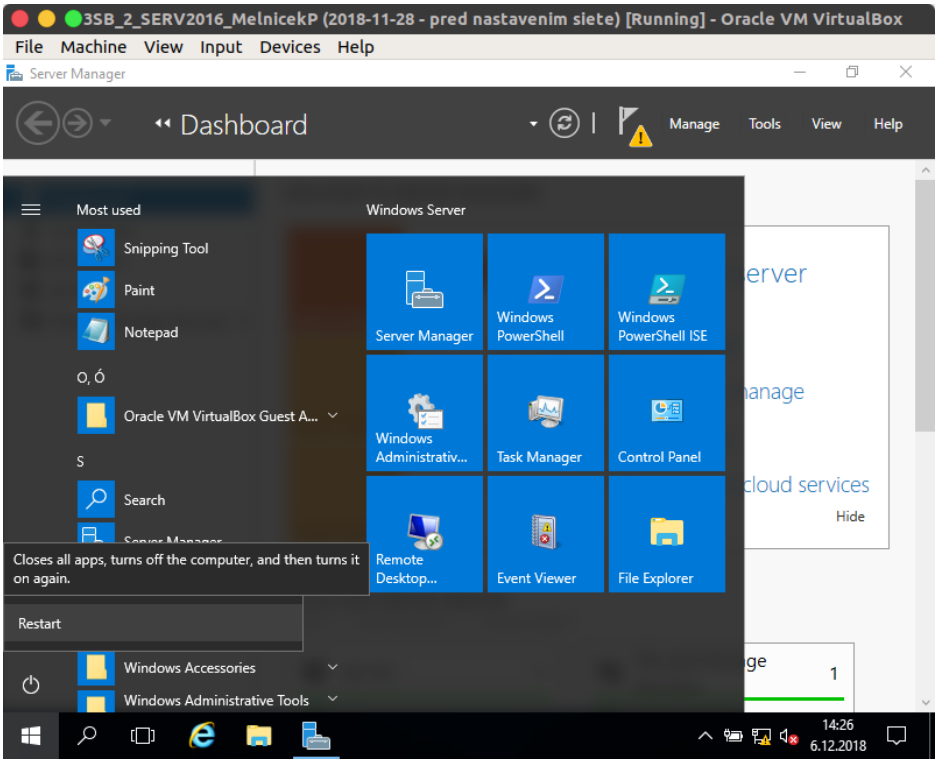
Install



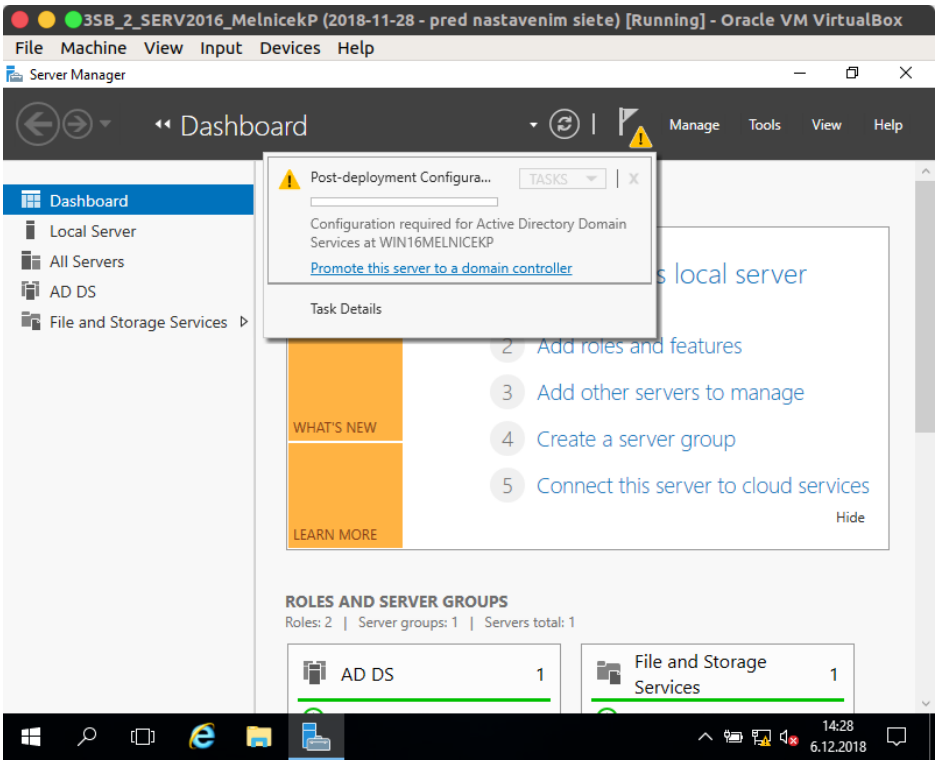
Close



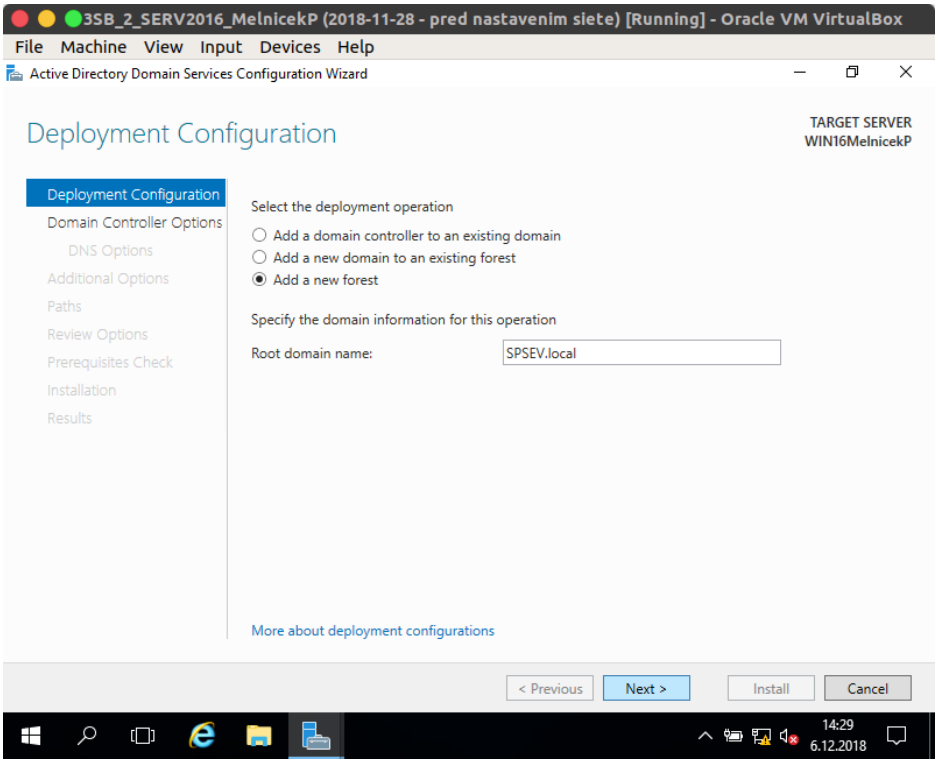
Promote this server



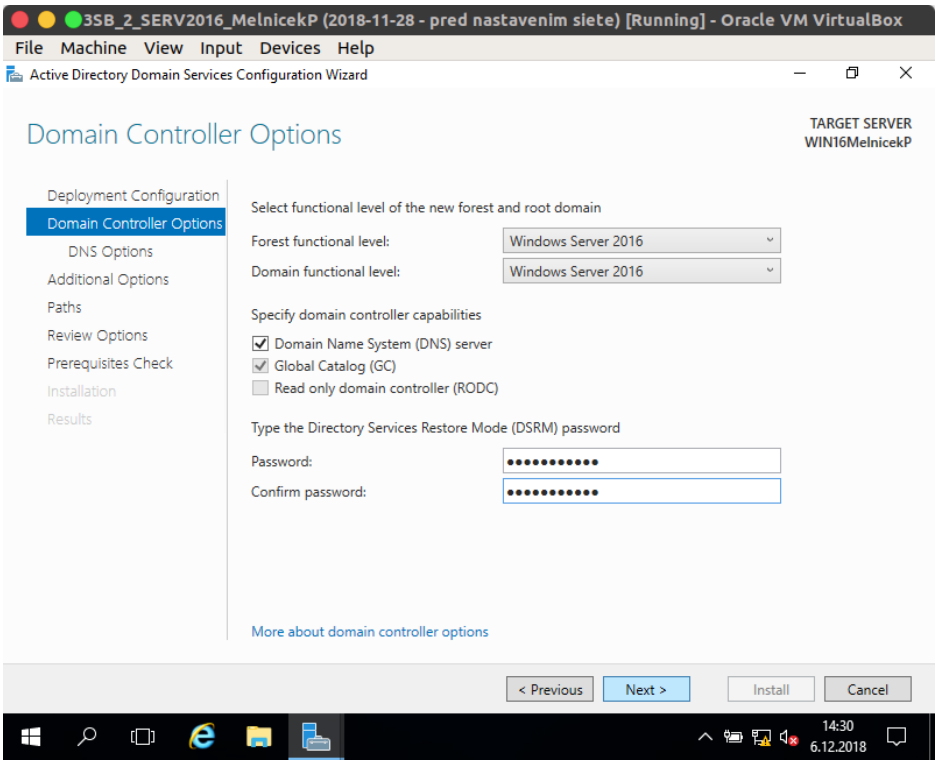
Root domain name SPSEV.local



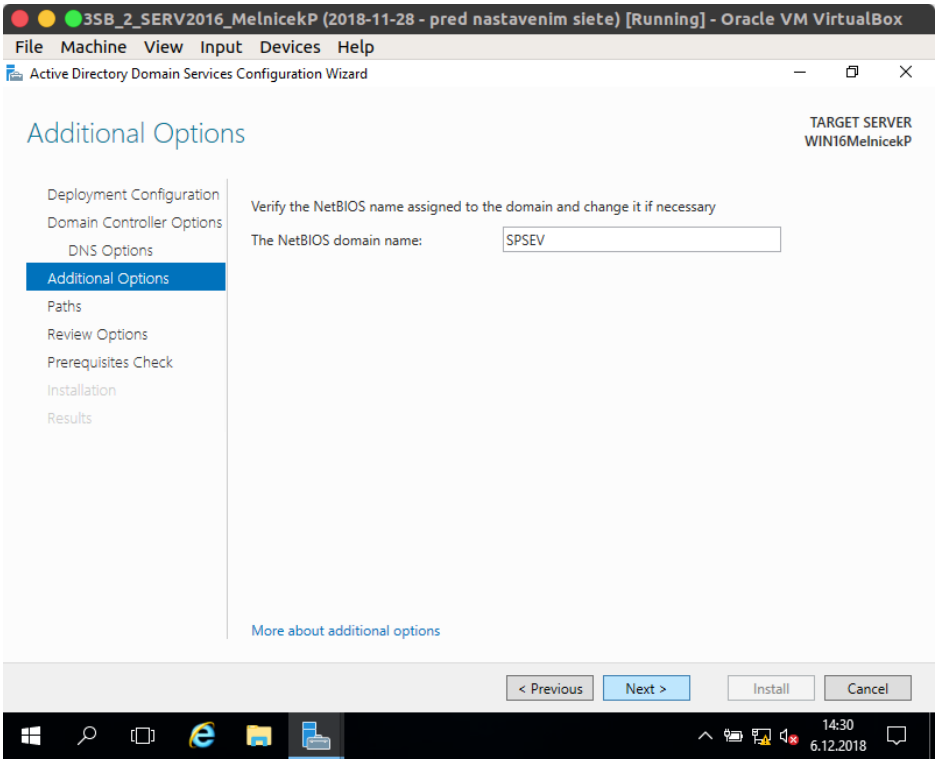
Nastavime silne heslo



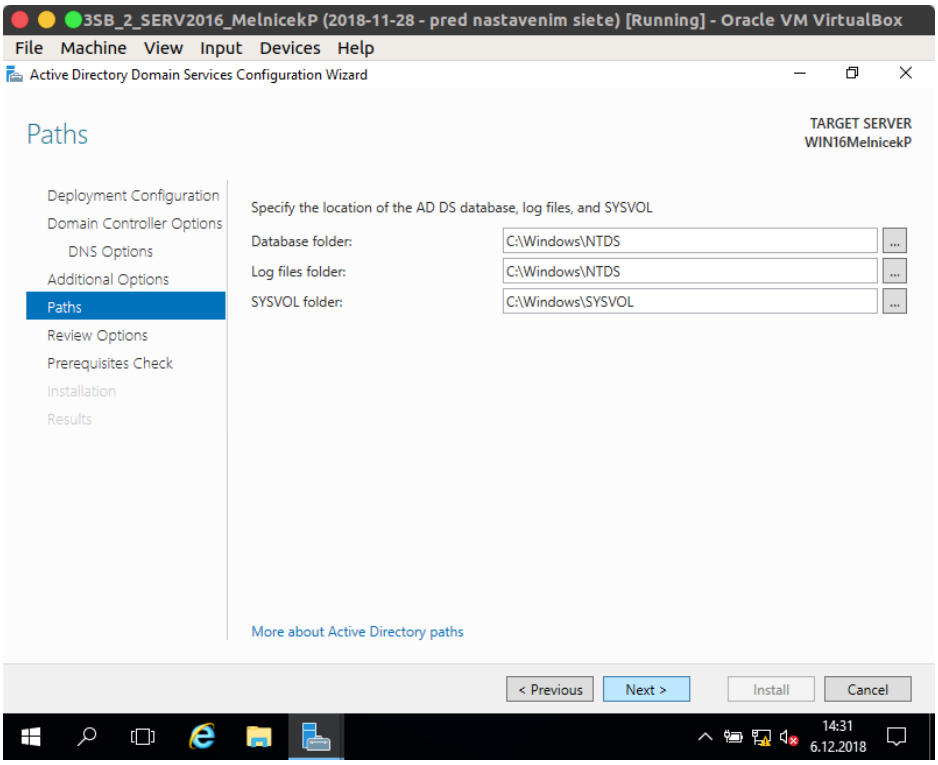
Spsev


3SB_2_SERV2016_MelnicekP (2018-11-28 - pred nastavenim siete) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Active Directory Domain Services Configuration Wizard
Domain Controller Options
TARGET SERVER
WIN16MelnicekP
Deployment Configuration
Domain Controller Options
DNS Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Select functional level of the new forest and root domain
Forest functional level:
Windows Server 2016
Domain functional level:
Windows Server 2016
Specify domain controller capabilities
Domain Name System (DNS) server
Global Catalog (GC)
Read only domain controller (RODC)
Type the Directory Services Restore Mode (DSRM) password
Password:
Confirm password:
More about domain controller options
< Previous
Next >
Install
Cancel
14:30
6.12.2018

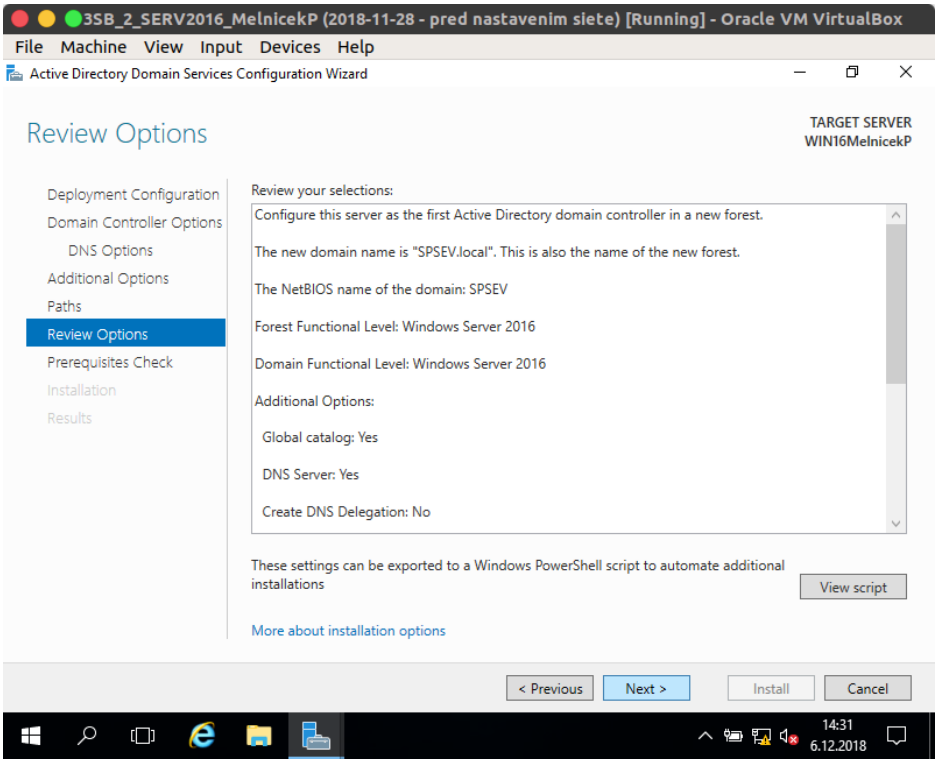
Next


3SB_2_SERV2016_MelnicekP (2018-11-28 - pred nastavenim siete) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Active Directory Domain Services Configuration Wizard
Additional Options
TARGET SERVER
WIN16MelnicekP
Deployment Configuration
Domain Controller Options
DNS Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Verify the NetBIOS name assigned to the domain and change it if necessary
The NetBIOS domain name:
SPSEV
More about additional options
< Previous
Next >
Install
Cancel
14:30
6.12.2018

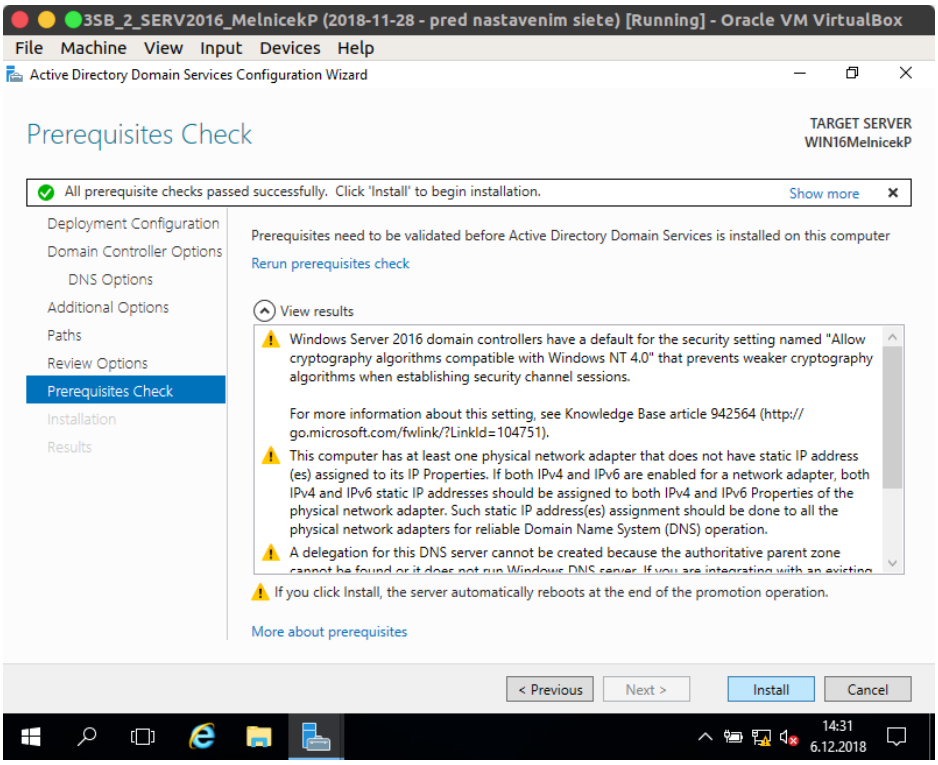
Next


3SB_2_SERV2016_MelnicekP (2018-11-28 - pred nastavenim siete) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Active Directory Domain Services Configuration Wizard
Paths
TARGET SERVER
WIN16MelnicekP
Deployment Configuration
Domain Controller Options
DNS Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Specify the location of the AD DS database, log files, and SYSVOL
Database folder:
C:\Windows\NTDS
Log files folder:
C:\Windows\NTDS
SYSVOL folder:
C:\Windows\SYSVOL
More about Active Directory paths
< Previous
Next >
Install
Cancel
14:31
6.12.2018

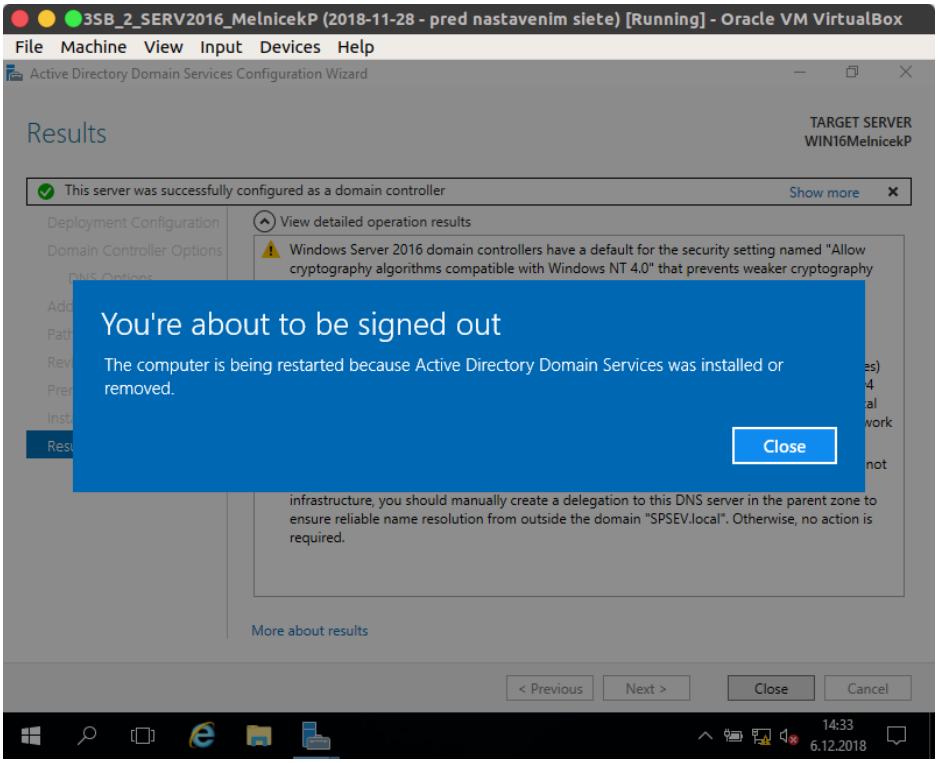
Next


3SB_2_SERV2016_MelnicekP (2018-11-28 - pred nastavenim siete) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Active Directory Domain Services Configuration Wizard
Review Options
TARGET SERVER
WIN16MelnicekP
Deployment Configuration
Domain Controller Options
DNS Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Review your selections:
Configure this server as the first Active Directory domain controller in a new forest.
The new domain name is "SPSEV.local". This is also the name of the new forest.
The NetBIOS name of the domain: SPSEV
Forest Functional Level: Windows Server 2016
Domain Functional Level: Windows Server 2016
Additional Options:
Global catalog: Yes
DNS Server: Yes
Create DNS Delegation: No
These settings can be exported to a Windows PowerShell script to automate additional installations
View script
More about installation options
< Previous
Next >
Install
Cancel
14:31
6.12.2018

Install

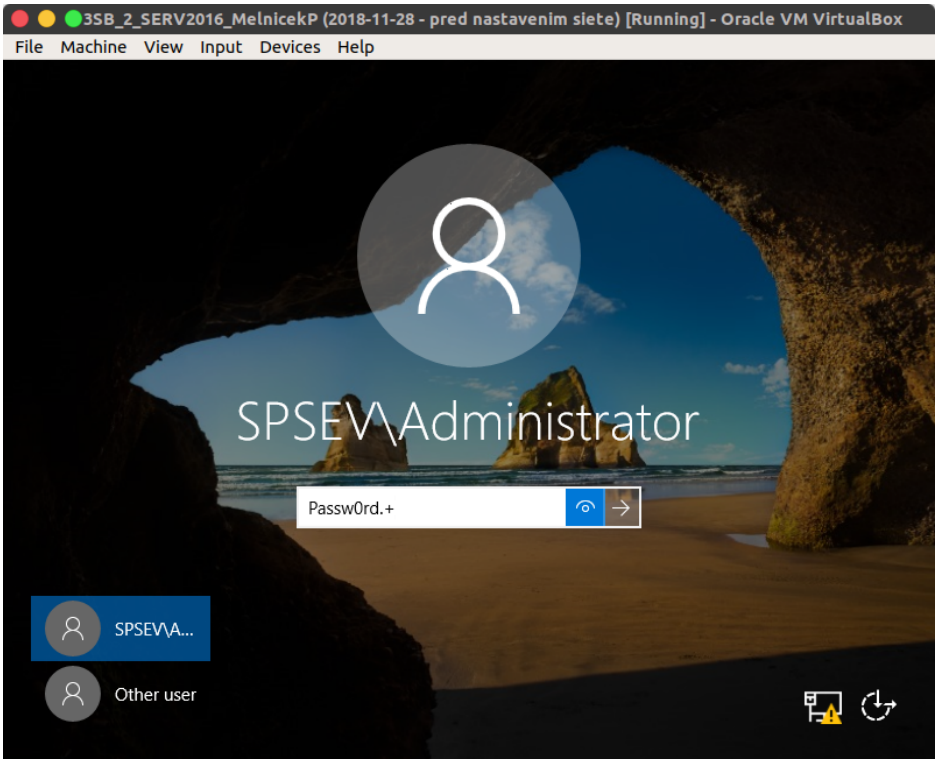


Pockalte na restart

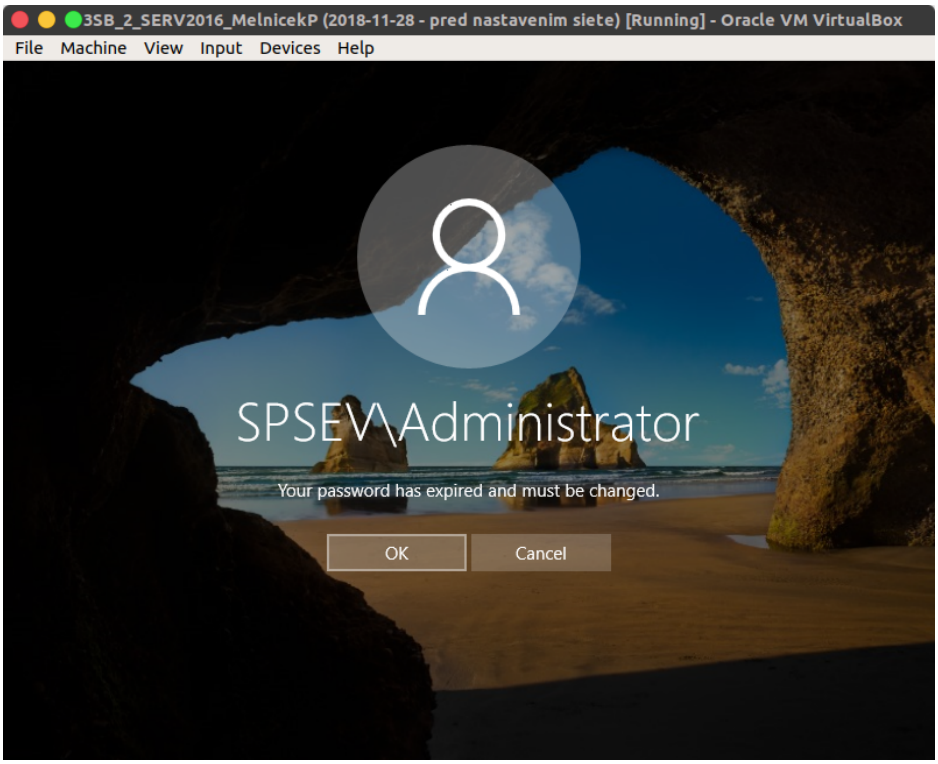


6 Pridanie Role Servera DHCP

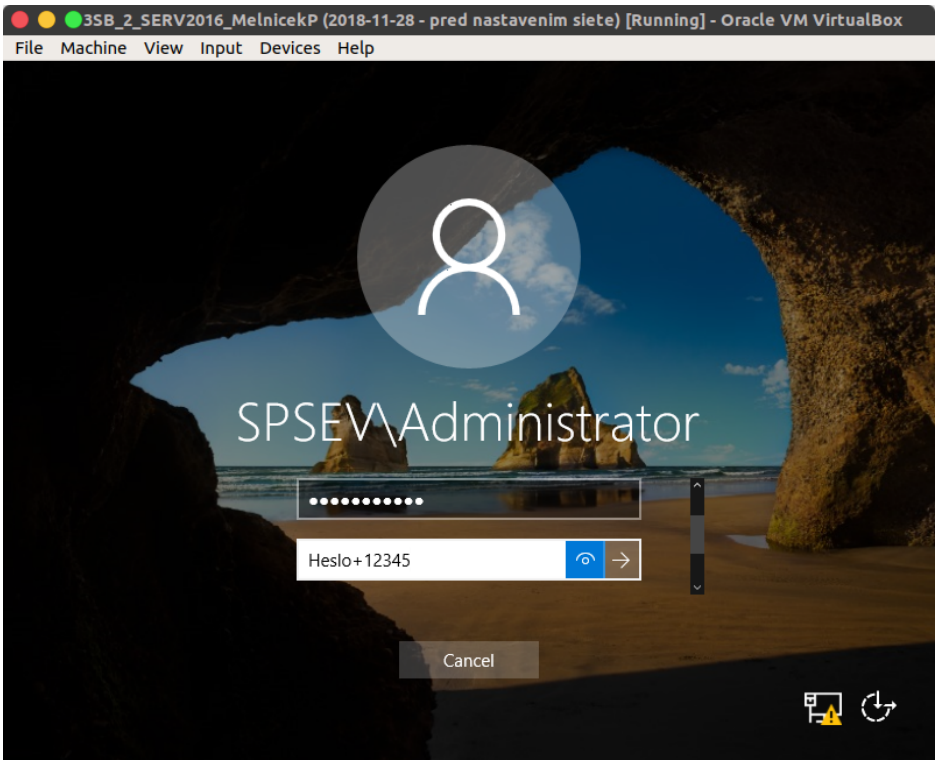
Prihlasime sa so starym heslom



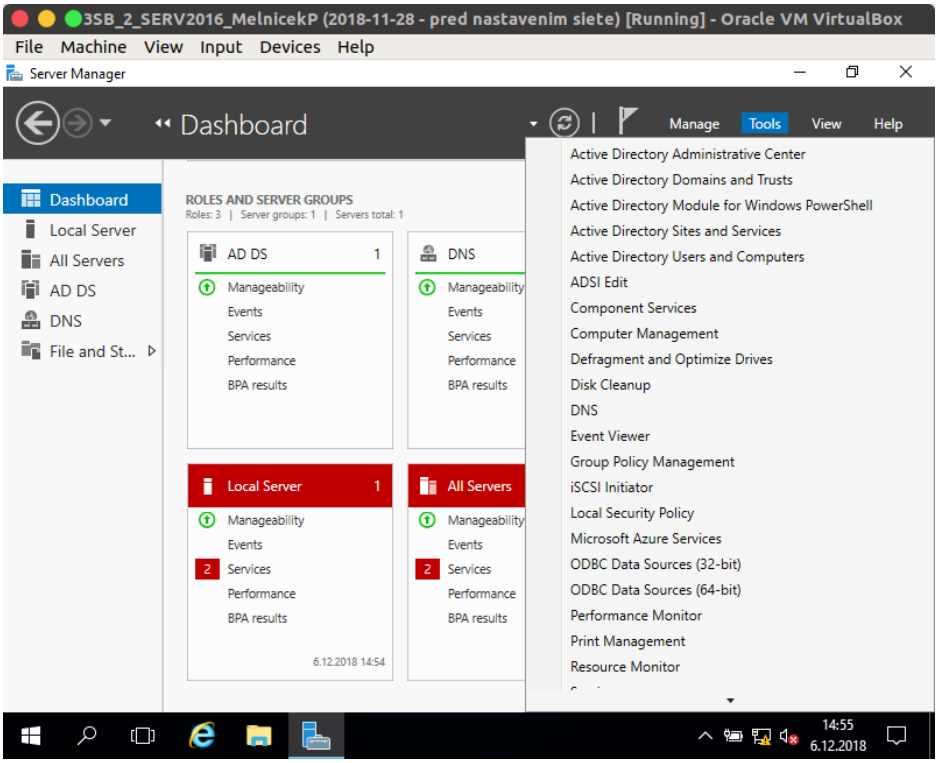
OK



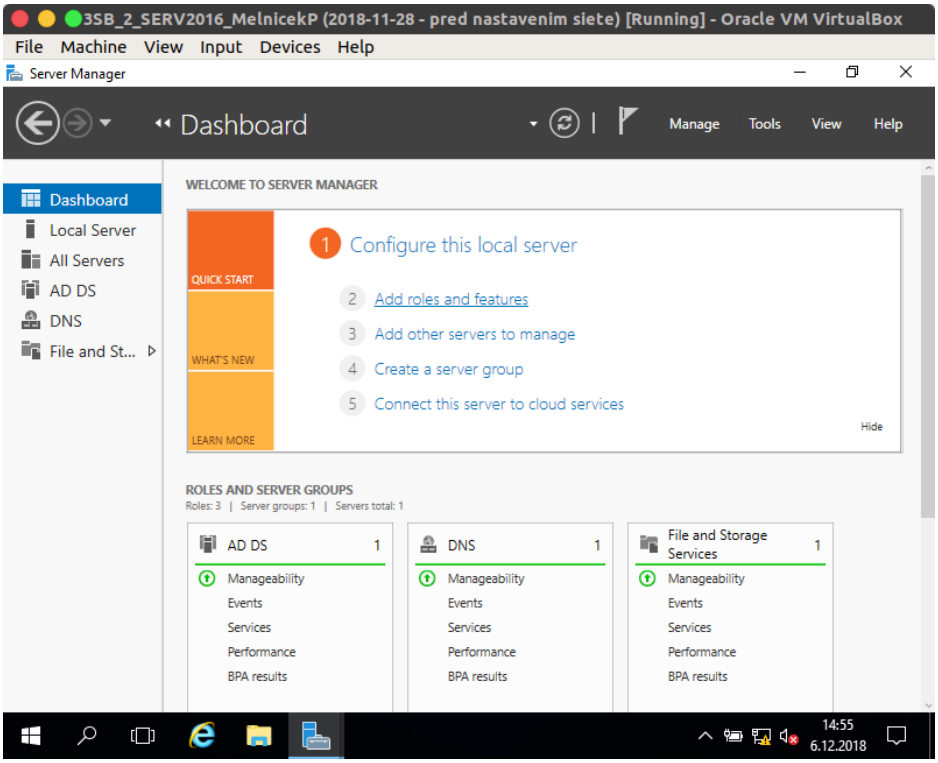
Zadame nove heslo



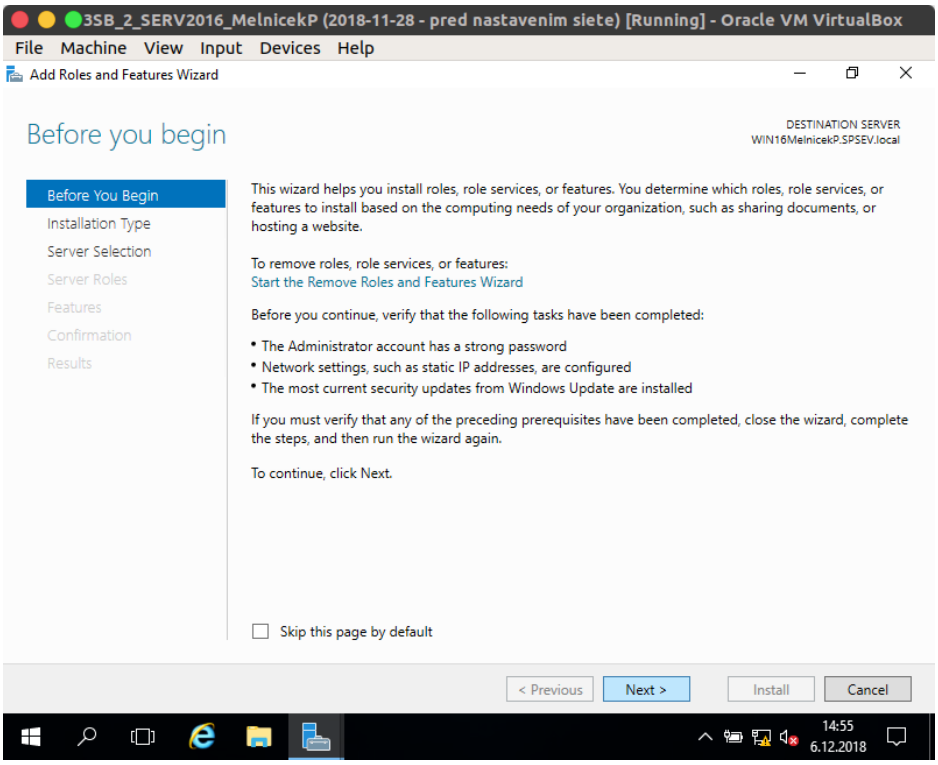
Aha active directory aj dns uz je funkcne



Dashboard > add roles and features



Next



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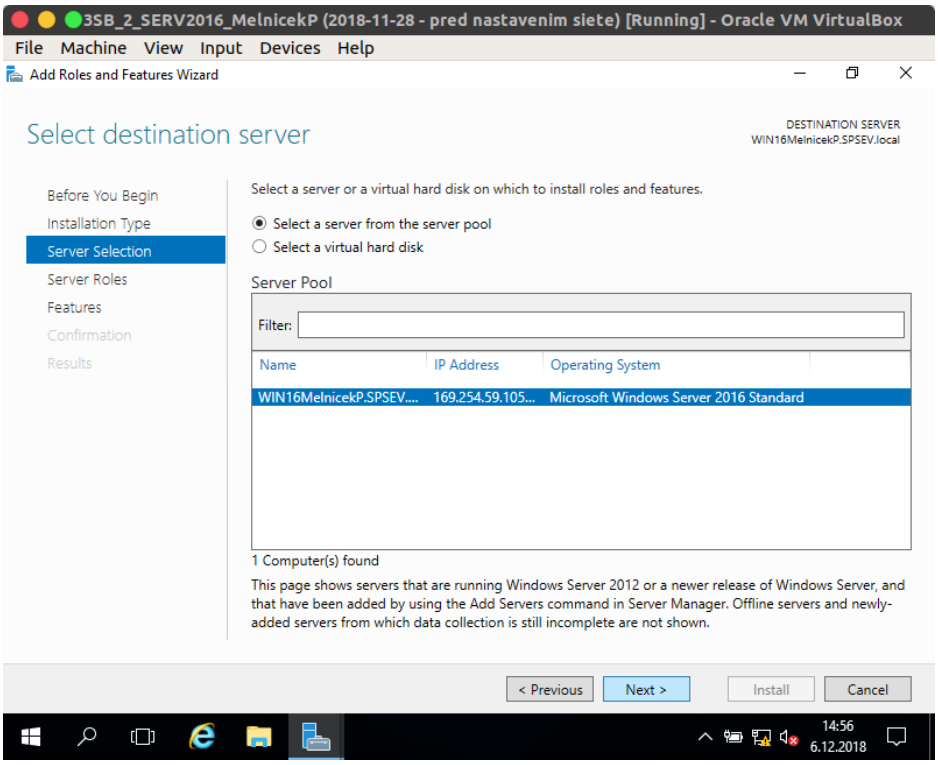
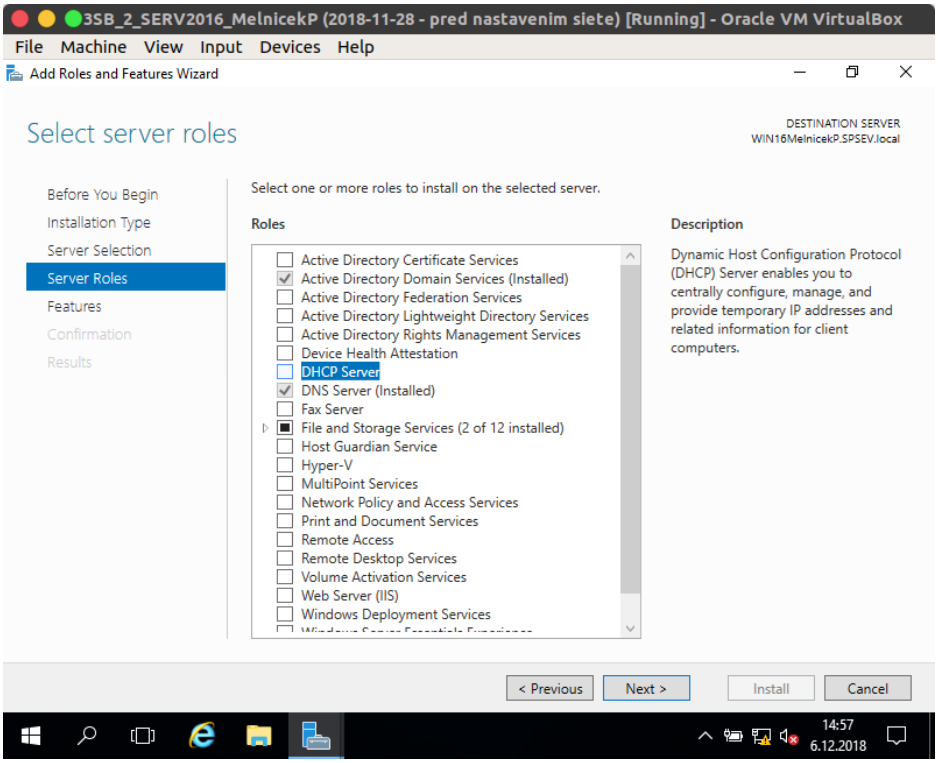
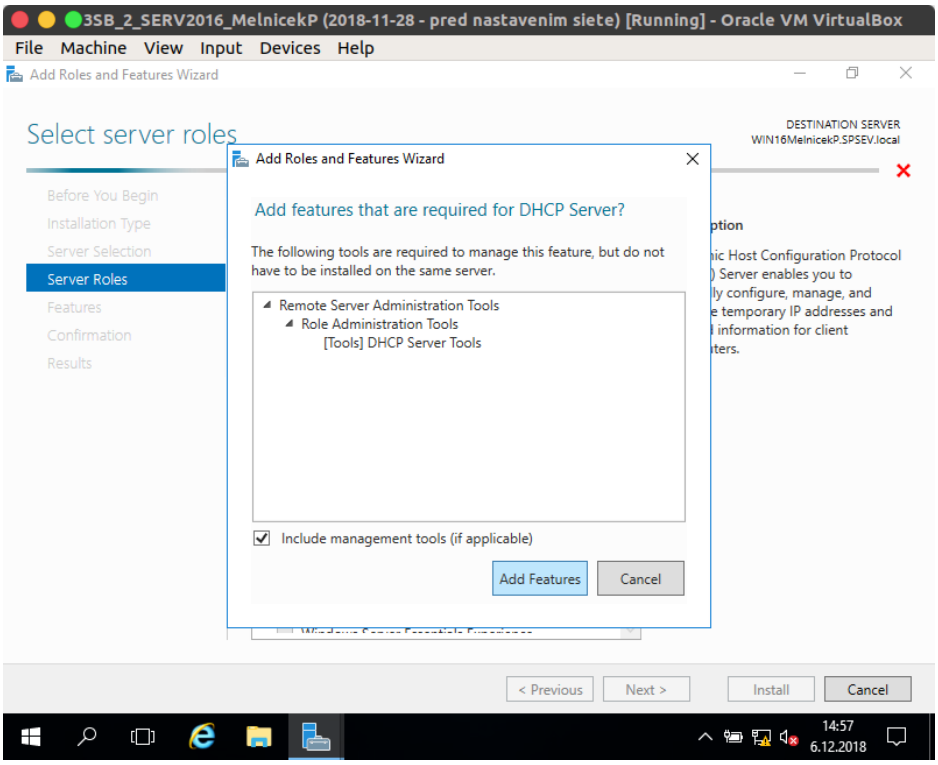


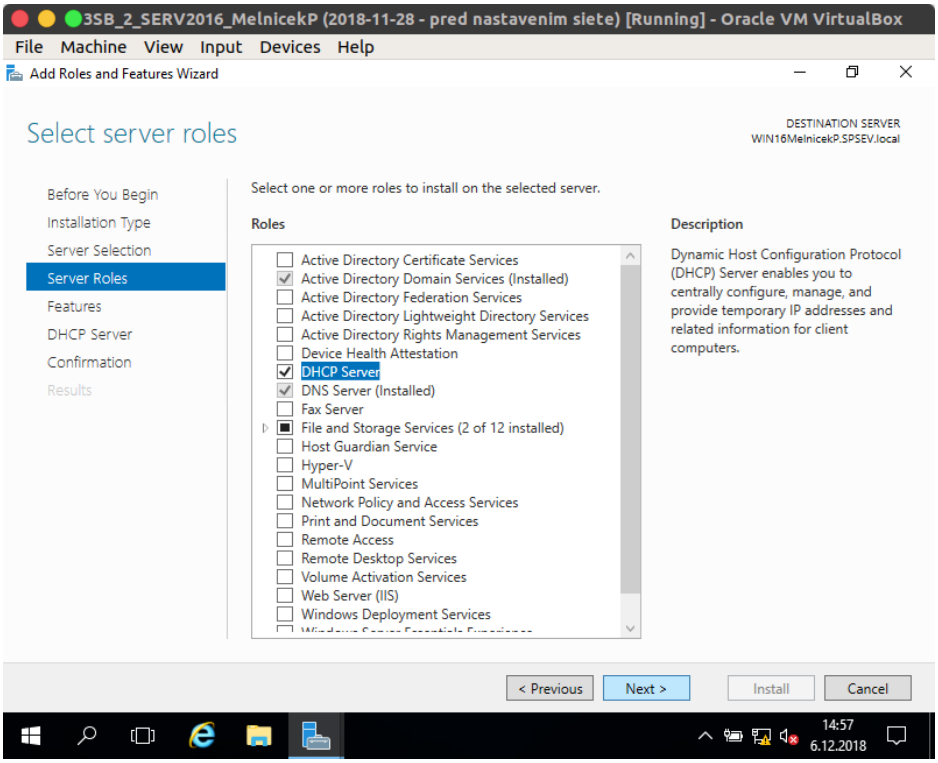
DHCP Server



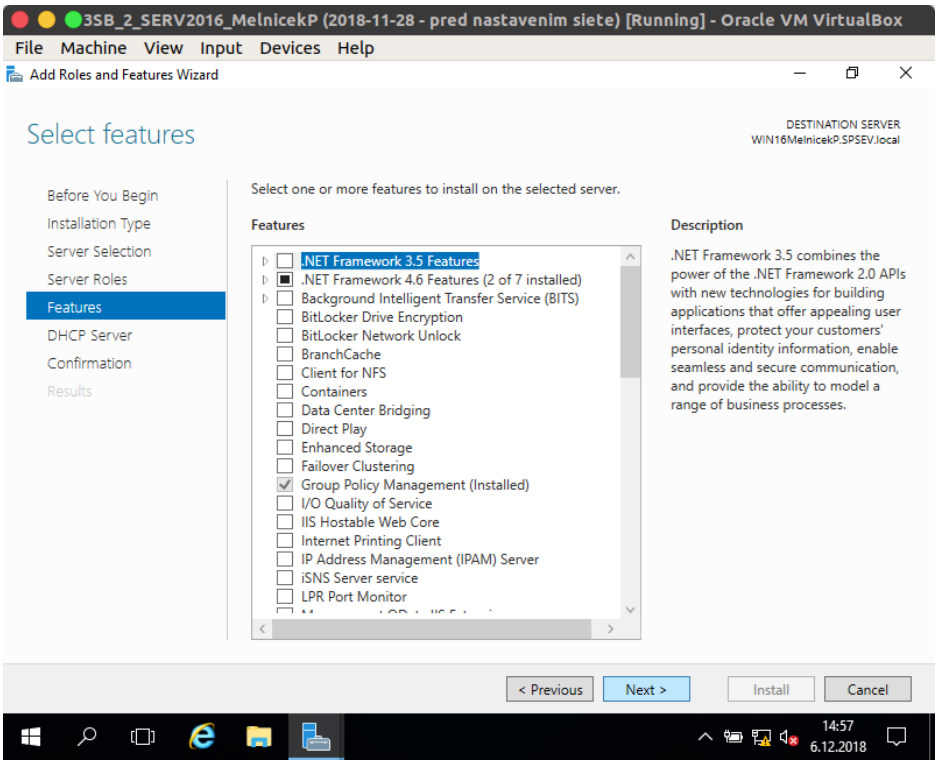
Add features



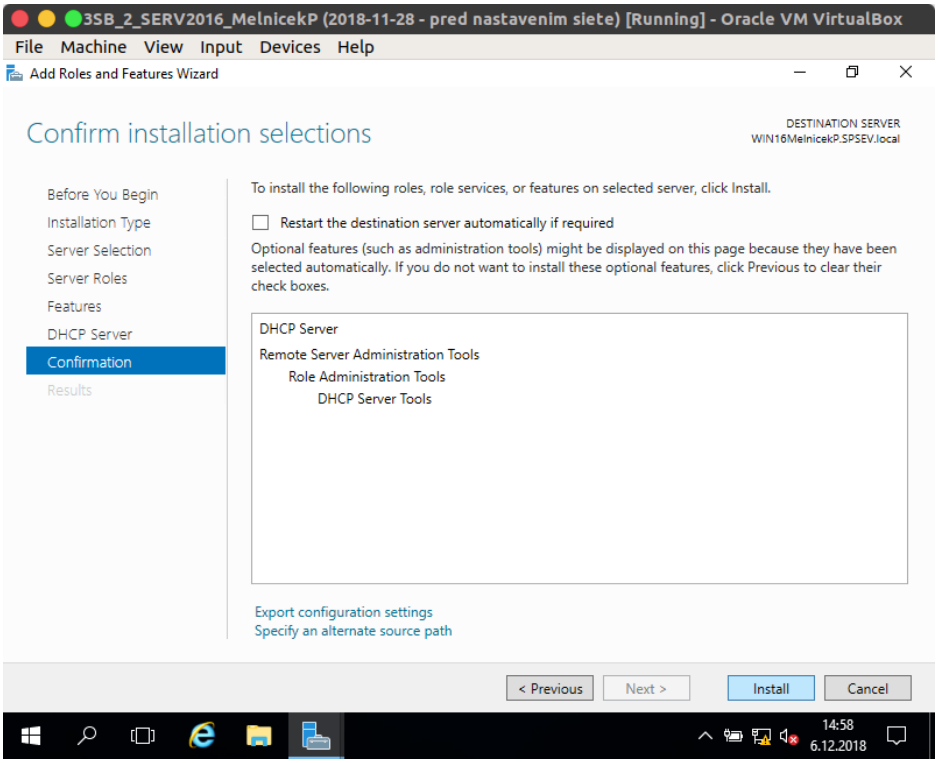
Next



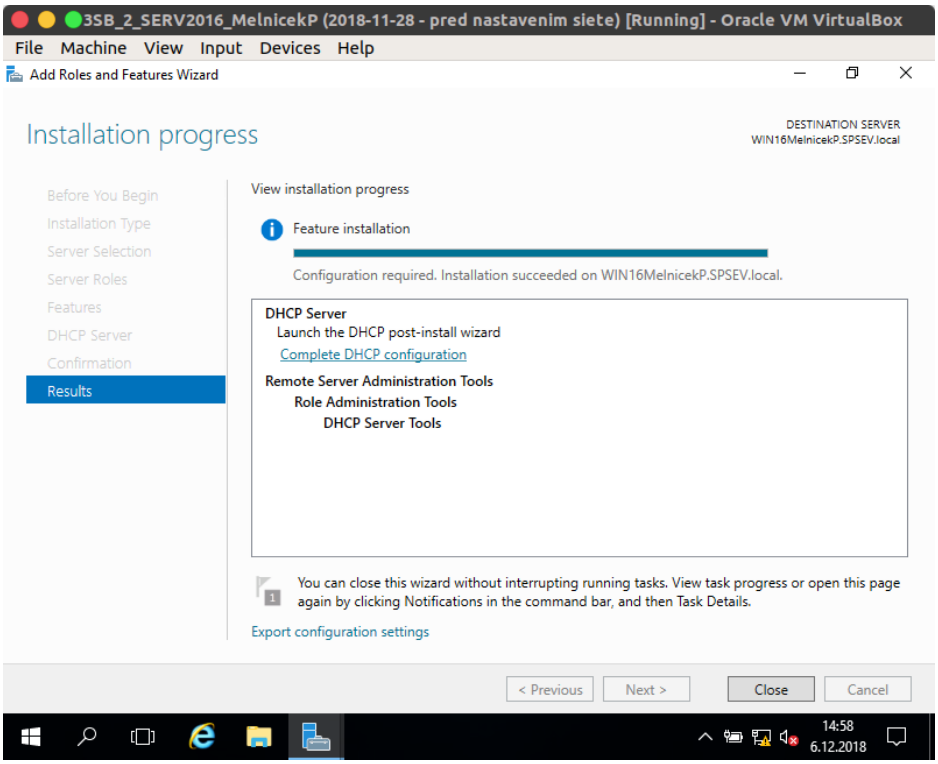
Next



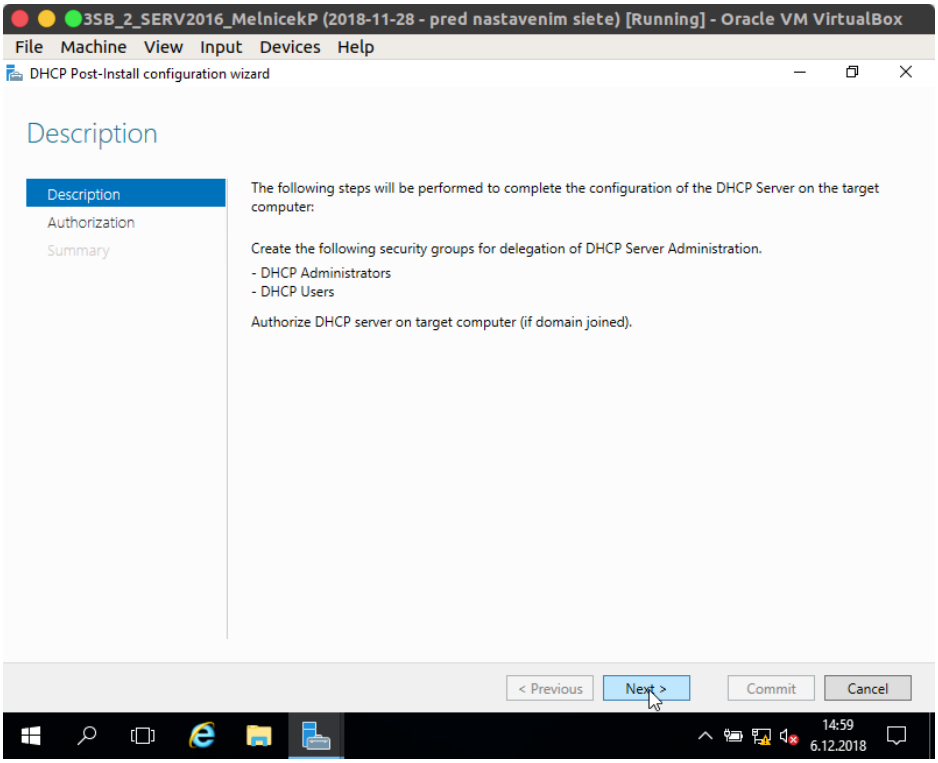
Install



Complete dhcp configuration



Next



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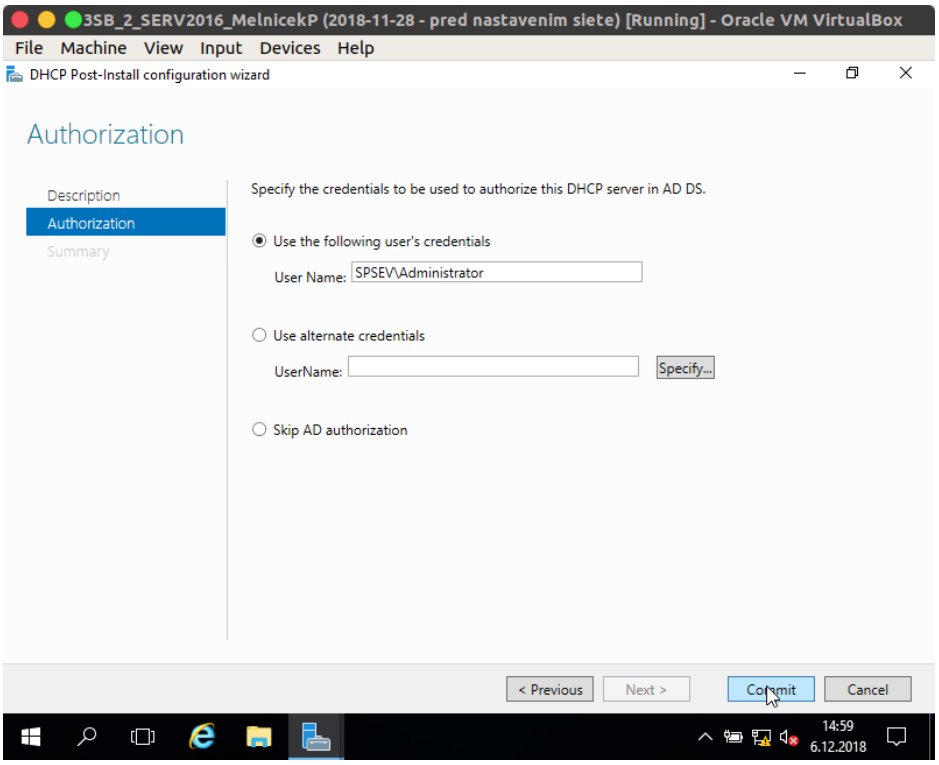
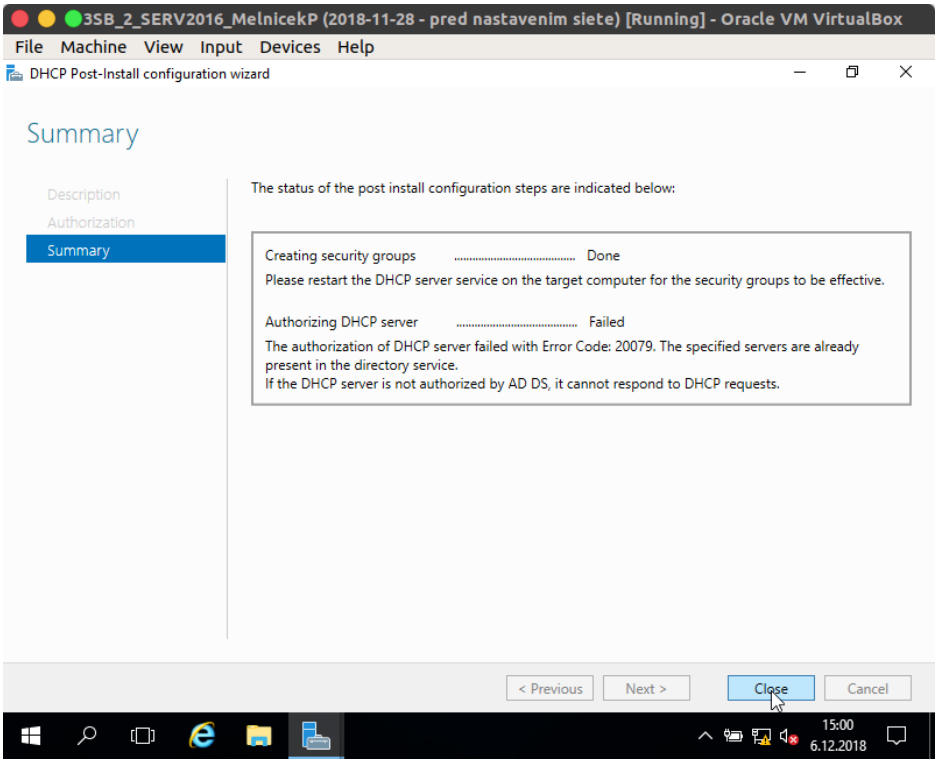
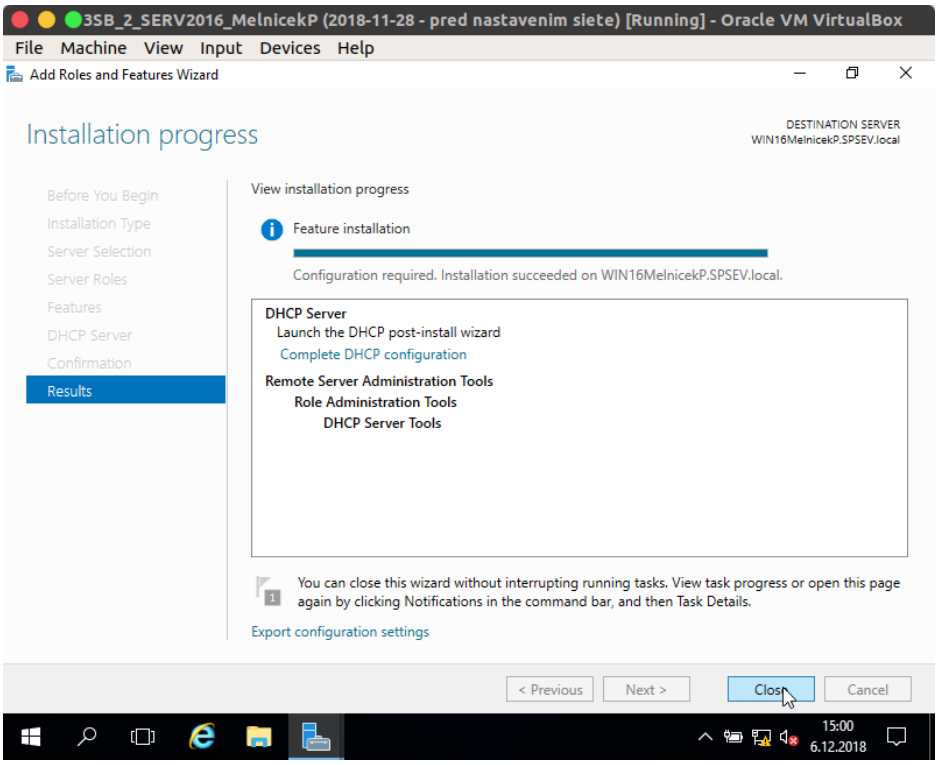

3SB_2_SERV2016_MelnicekP (2018-11-28 - pred nastavenim siete) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
DHCP Post-Install configuration wizard
Authorization
Description
Authorization
Summary
Specify the credentials to be used to authorize this DHCP server in AD DS.
Use the following user's credentials
User Name: SPSEV\Administrator
Use alternate credentials
UserName:
Specify...
Skip AD authorization
< Previous
Next >
Commit
Cancel
14:59
6.12.2018

Commit


3SB_2_SERV2016_MelnicekP (2018-11-28 - pred nastavenim siete) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
DHCP Post-Install configuration wizard
Summary
Description
Authorization
Summary
The status of the post install configuration steps are indicated below:
Creating security groups ..... Done
Please restart the DHCP server service on the target computer for the security groups to be effective.
Authorizing DHCP server ..... Failed
The authorization of DHCP server failed with Error Code: 20079. The specified servers are already present in the directory service.
If the DHCP server is not authorized by AD DS, it cannot respond to DHCP requests.
< Previous
Next >
Close
Cancel
15:00
6.12.2018

Close


3SB_2_SERV2016_MelnicekP (2018-11-28 - pred nastavenim siete) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Add Roles and Features Wizard
Installation progress
DESTINATION SERVER
WIN16MelnicekP.SPSEV.local
Before You Begin
Installation Type
Server Selection
Server Roles
Features
DHCP Server
Confirmation
Results
View installation progress
Feature installation
Configuration required. Installation succeeded on WIN16MelnicekP.SPSEV.local.
DHCP Server
Launch the DHCP post-install wizard
Complete DHCP configuration
Remote Server Administration Tools
Role Administration Tools
DHCP Server Tools
You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.
Export configuration settings
< Previous
Next >
Close
Cancel
15:00
6.12.2018

7 Zaradenie Pracovnej Stanice do Domény