Assignment

Installing a Domain Controller and Working with Objects in Active Directory

Task

Install Windows Server (version 2016, 2019, or 2022), then install the AD DS role, and then promote the domain controller. The domain name is formed according to the principle: vase_ime.lan (e.g. peter.lan). The name of the computer on which the domain controller is located should be: vase_prezime-1 (e.g., peter-1).

1. In the domain, create:

- *user account, which will be called: your name.surname;*
- *a Global Security group to be called: vas_grad Admins (e.g., Belgrade Admins);*
- *An organizational unit that will have a name of your choice;*
- *There are two computer accounts: SERVER-1 and SERVER-2.*

2. Reset the SERVER-2 computer account, and then activate this computer account so that users can log in to the domain again through it.

3. Add your user account to the previously created group. Delegate control to this group by importing computers into the domain and changing their membership in this group.

Provide the solution in a text document, where you will gradually describe the stages needed to solve the task. The solution description flow should be accompanied by appropriate screenshots for each step of solving the task.

CONTENT

INSTALLATION OF WINDOWS SERVER 2
CREATING OBJECTS IN A DOMAIN 11
USER ACCOUNT 12
SIGORNUS GROUP 13
ORGANIZATIONAL UNIT 14
COMPUTER ORDERS 15
RESETTING ANOTHER SERVER 16
DELEGATING CONTROL TO THE GROUP. 16

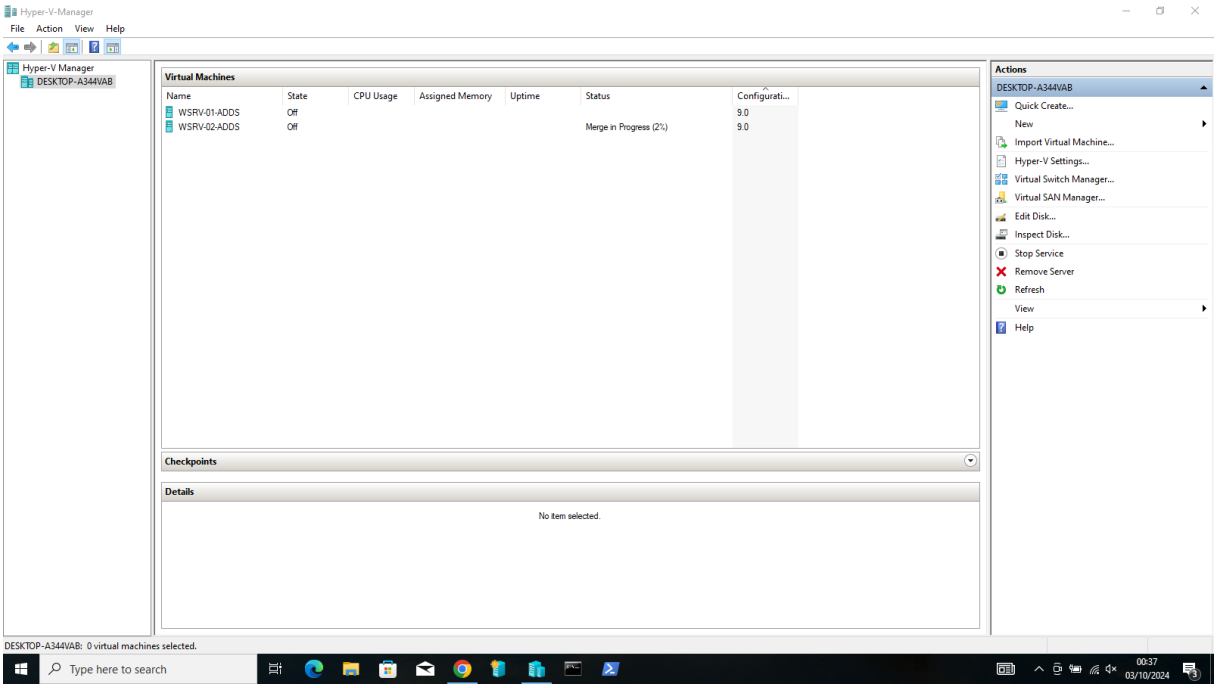
INSTALLATION OF WINDOWS SERVER

This document presents a step-by-step approach to solving a specific task, outlining the methodology, execution, and expected outcomes. By following the instructions, the reader will gain hands-on experience in applying technical concepts to practical situations, reinforcing both theoretical knowledge and problem-solving abilities.

The structured approach ensures that each step is clearly defined, making the process easy to follow and implement in professional environments.

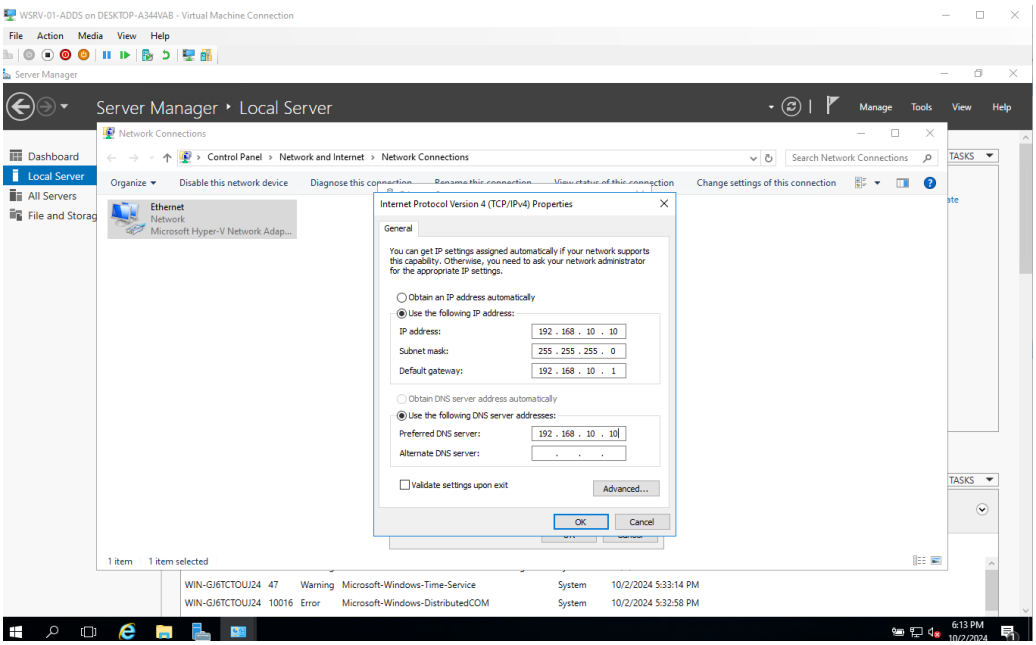
For the purposes of this task, the Hyper V virtualization platform was used, in order to complete the task completely, two Windows 2016 servers were used:

- WSRV-01-ADDS
- WSRV-02-ADDS

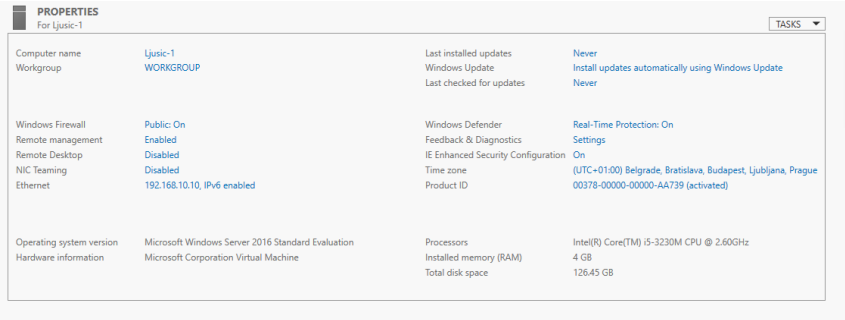


Server WSRV-01-ADDS

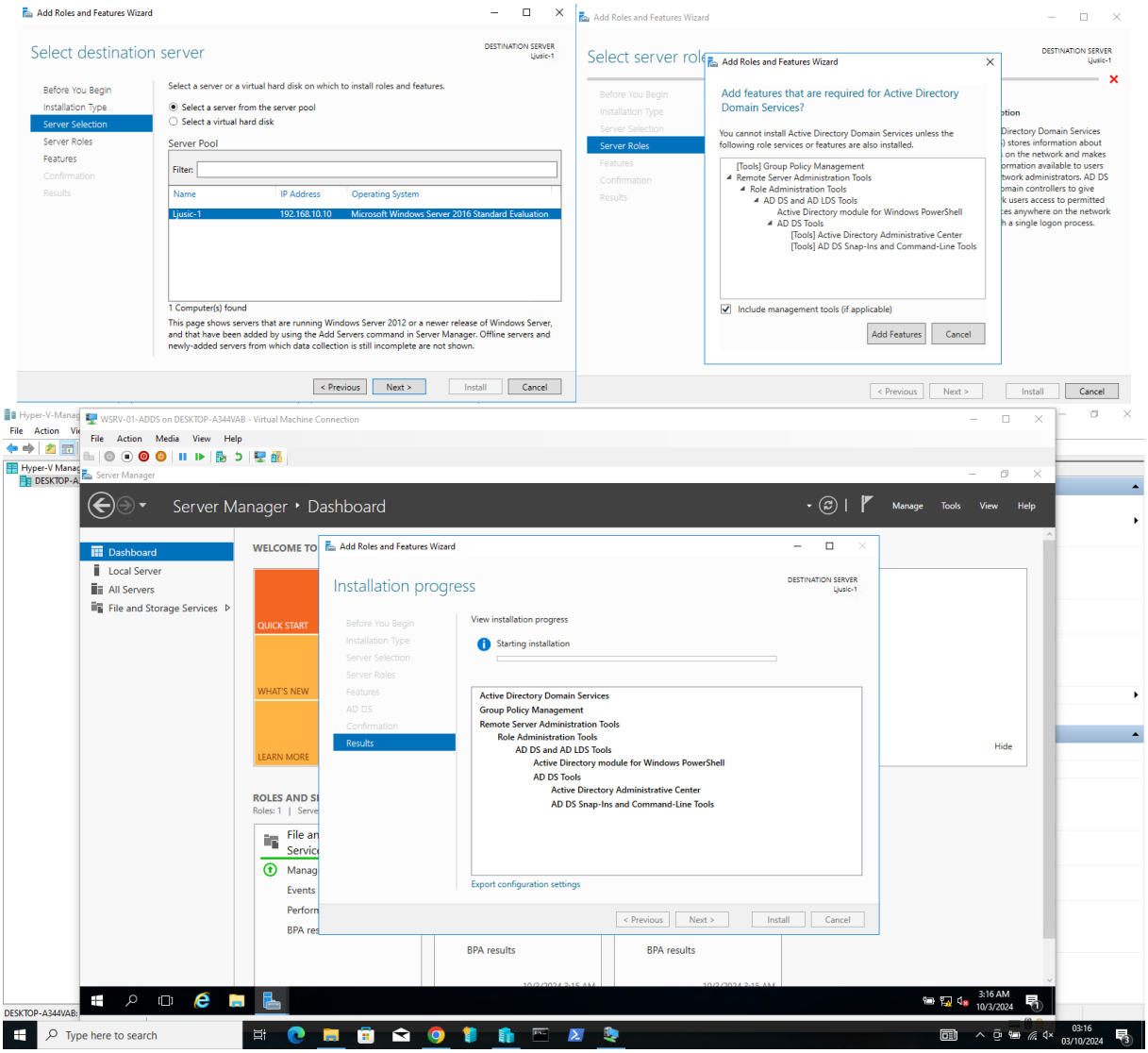
Through this subheading, the settings of this server and the additional installation of the AD DS role will be shown. The screenshots show the following actions:



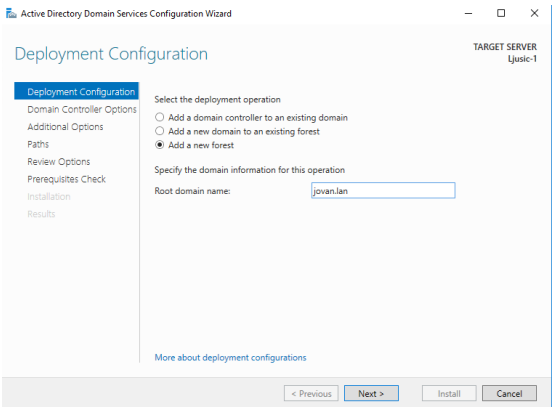
The first step shows you to enter a static Ip address, as shown in the screenshot, of which the DNS address is 192.168.10.10. Also a very important step is to connect the virtual machines to the Private Switch that has been created beforehand, so that there are no interference with the work of the Active Directory.

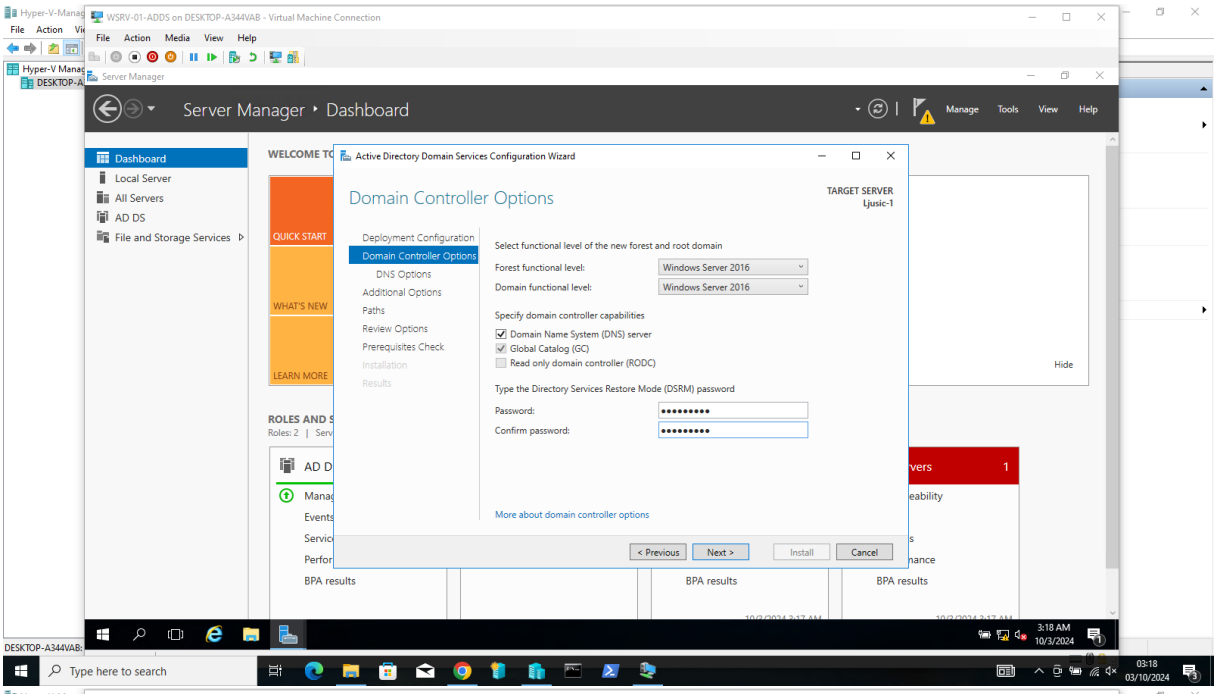


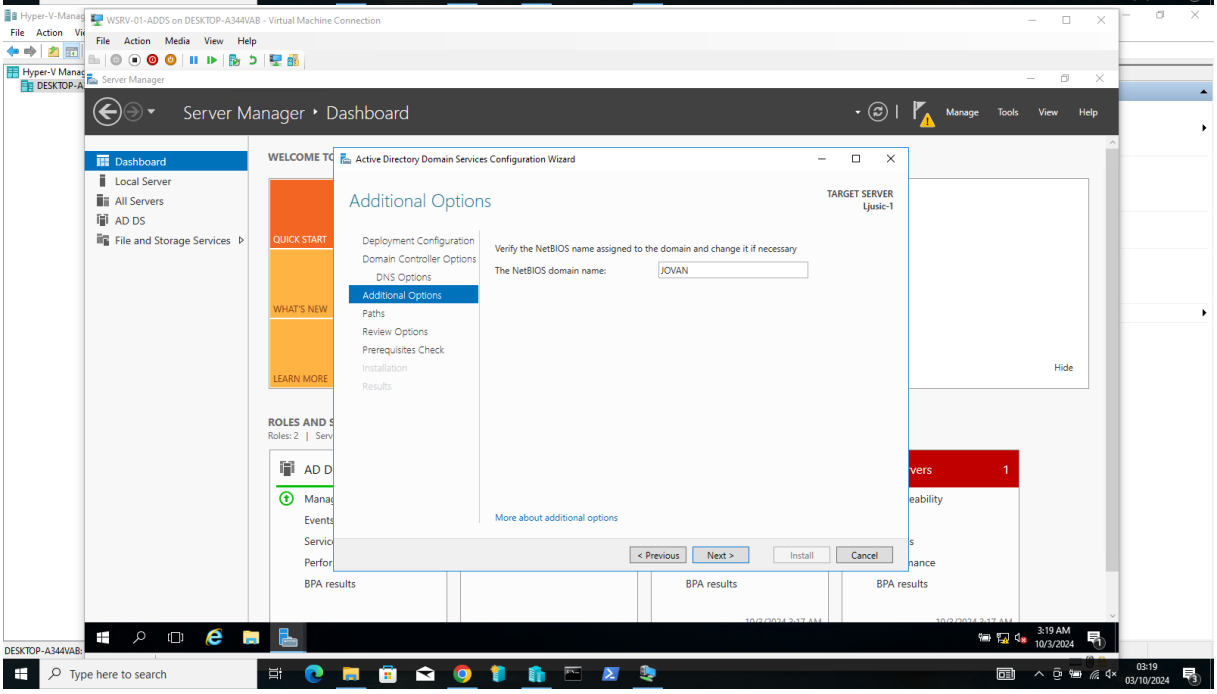
Also according to the task guidelines, the server name, named Ljusic-1, has also been changed, as well as the time zone setting. The next step is the AD DS role installation process:

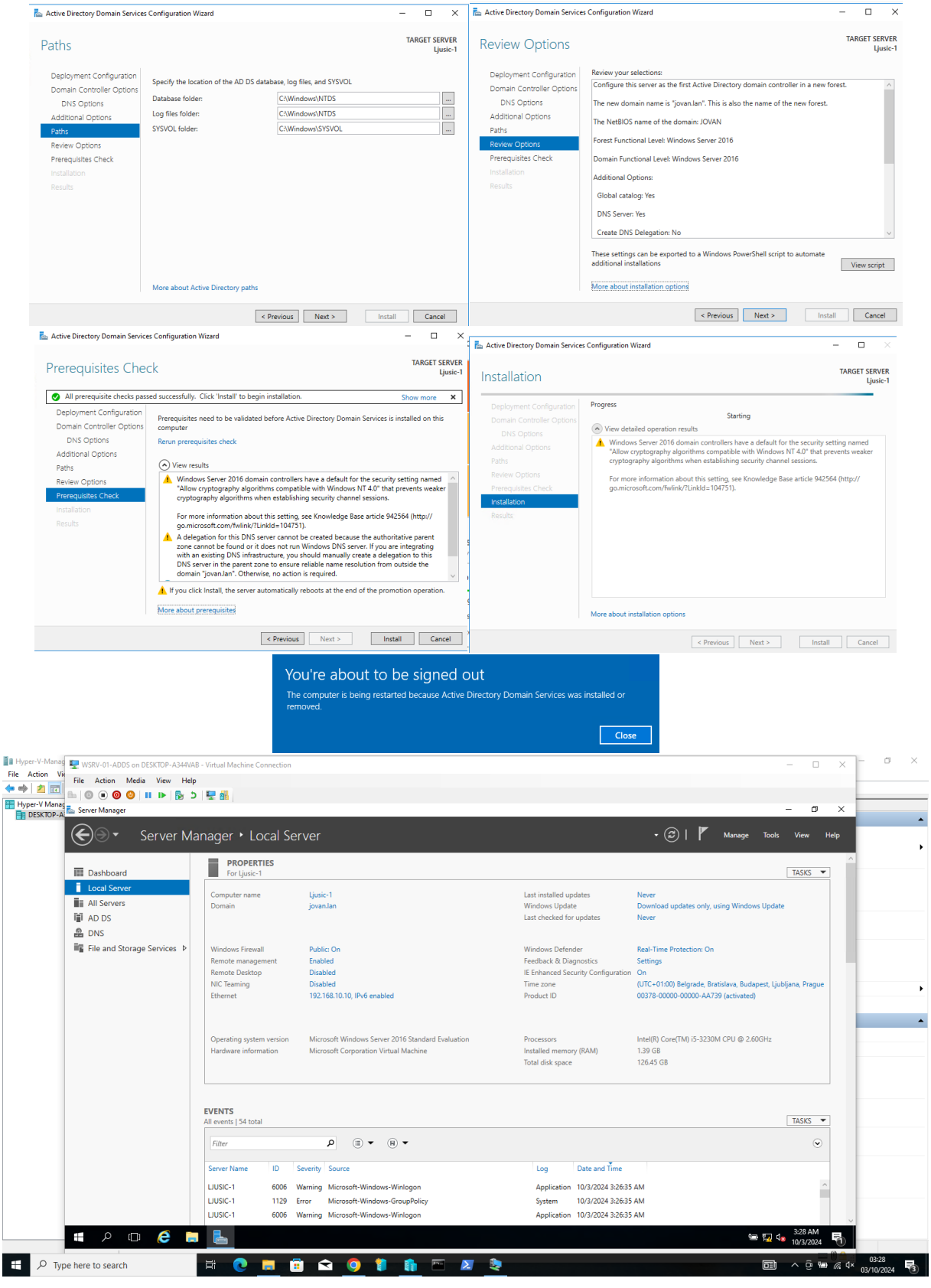


Post-installation settings of the AD DS role:


Active Directory Domain Services Configuration Wizard
Deployment Configuration
TARGET SERVER
Ljusic-1
Deployment Configuration
Domain Controller Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Select the deployment operation
Add a domain controller to an existing domain
Add a new domain to an existing forest
Add a new forest
Specify the domain information for this operation
Root domain name:
jovan.lan
More about deployment configurations
< Previous
Next >
Install
Cancel


WSRV-01-ADDS on DESKTOP-A344VAB - Virtual Machine Connection
Server Manager
Server Manager ‣ Dashboard
Manage
Tools
View
Help
Dashboard
Local Server
All Servers
AD DS
File and Storage Services
Active Directory Domain Services Configuration Wizard
Domain Controller Options
TARGET SERVER
Ljusic-1
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
QUICK START
WHAT'S NEW
LEARN MORE
Hide
BPA results
BPA results
BPA results
Type here to search
3:18 AM
10/3/2024
03:18
03/10/2024

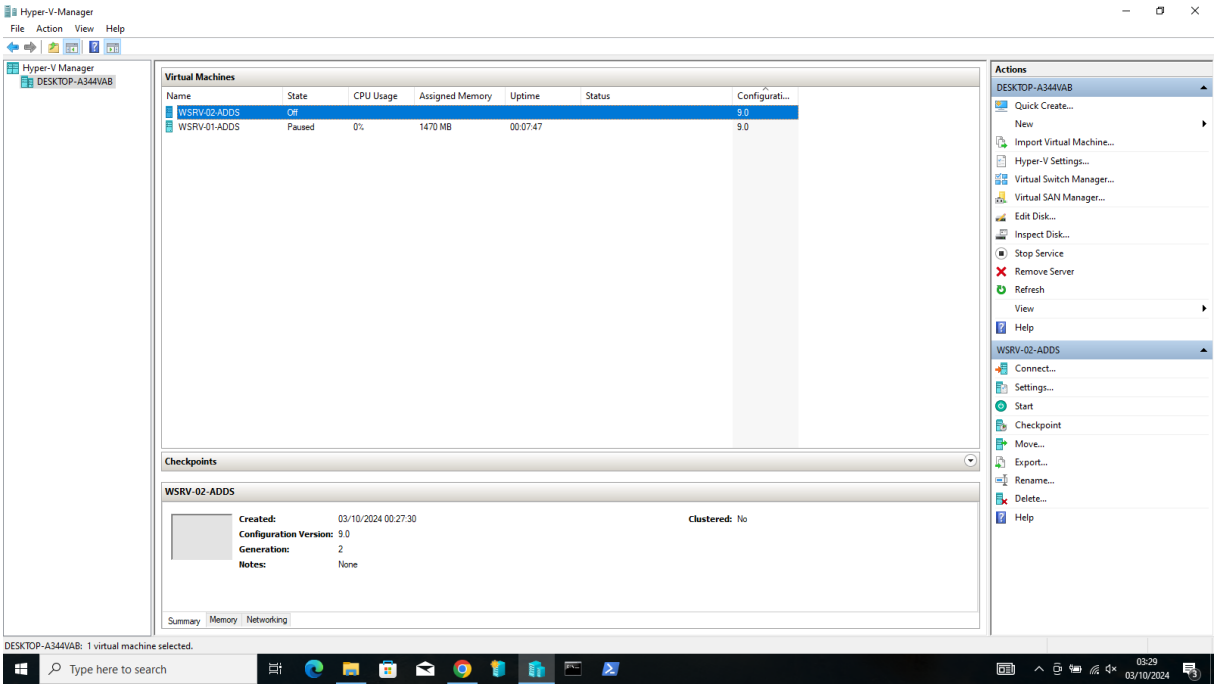

WSRV-01-ADDS on DESKTOP-A344VAB - Virtual Machine Connection
Server Manager
Server Manager ‣ Dashboard
Manage
Tools
View
Help
Dashboard
Local Server
All Servers
AD DS
File and Storage Services
Active Directory Domain Services Configuration Wizard
Additional Options
TARGET SERVER
Ljusic-1
Deployment Configuration
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:
JOVAN
More about additional options
< Previous
Next >
Install
Cancel
QUICK START
WHAT'S NEW
LEARN MORE
Hide
BPA results
BPA results
BPA results
Type here to search
3:19 AM
10/3/2024
03:19
03/10/2024

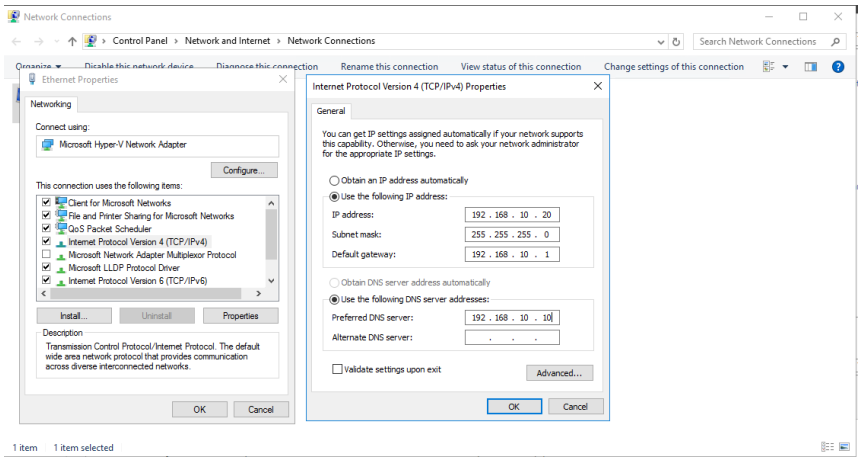


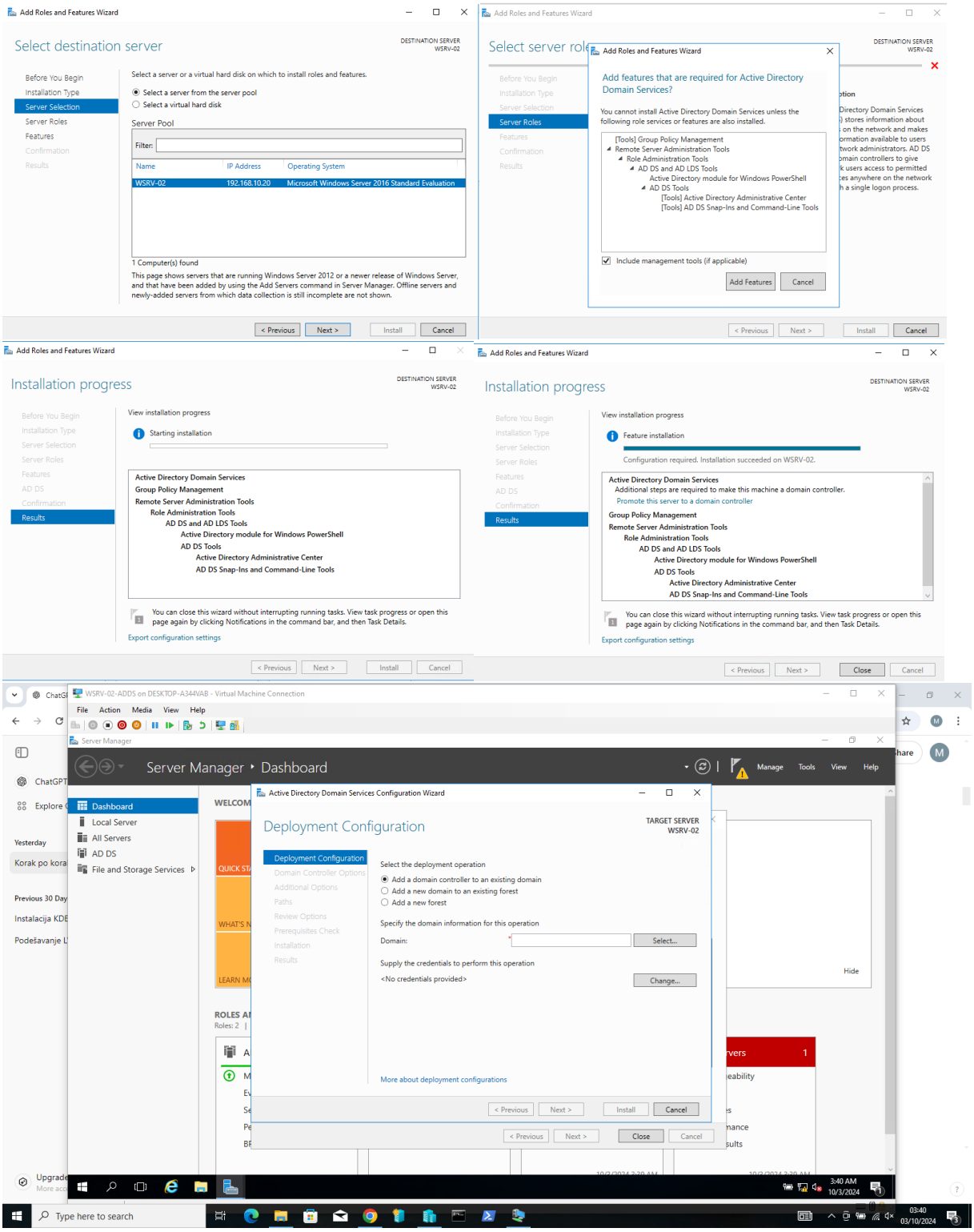
The last screenshot shows the entire result obtained after installing the AD DS role, which also joins this server to the domain, previously set according to the task guidelines to be the name of the user in this case jovan.lan.

Setting up the server WSRV-02-ADDS:

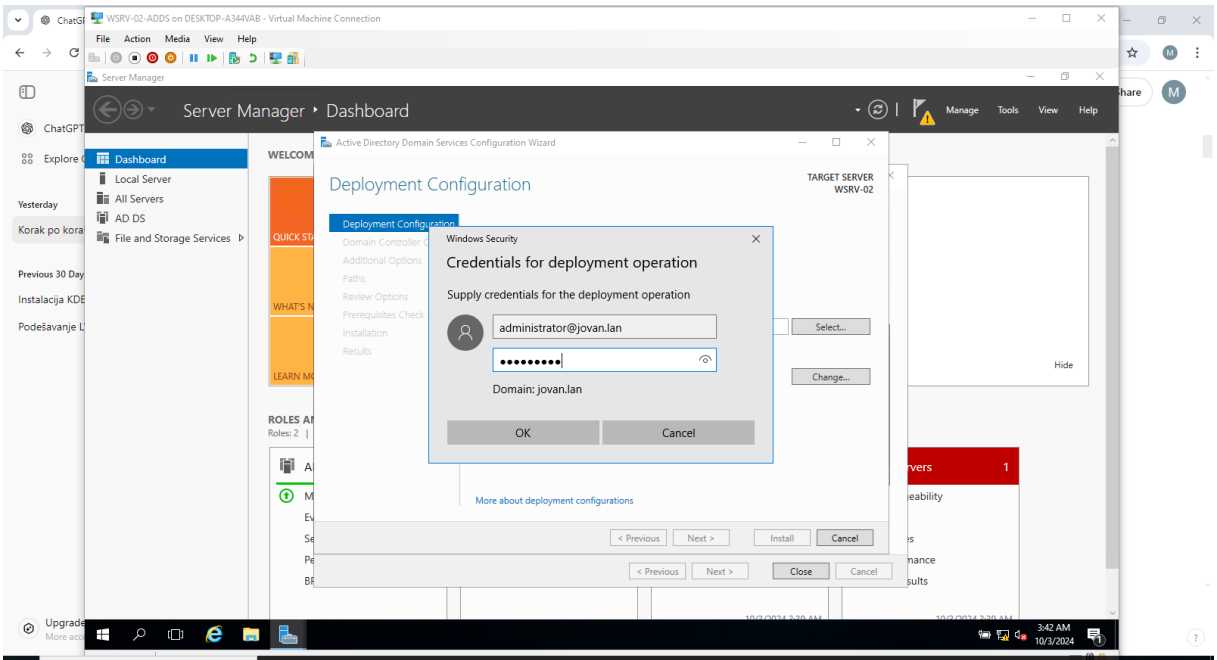
The first step is to connect to the server and run it, after which the step is also to add a static IP address and a DNS address that will be the same as the first 192.168.10.10. After that, the process also follows the installation of the AD DS role and the addition to an existing domain. The screenshots are as follows:

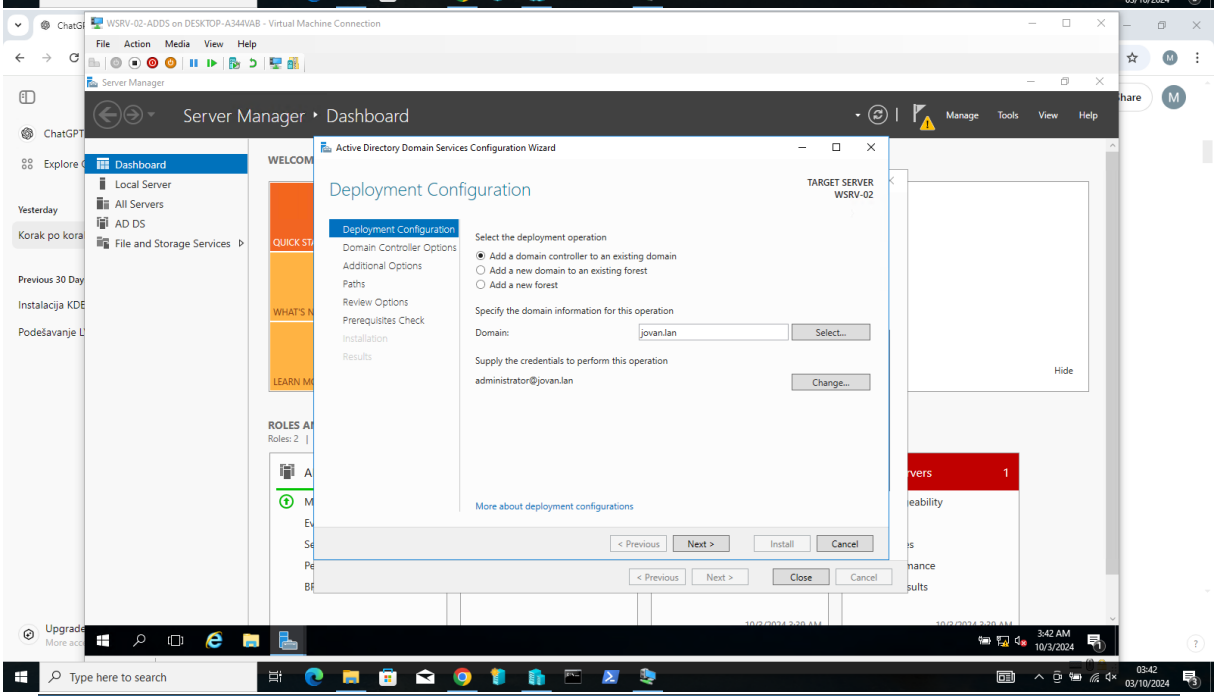


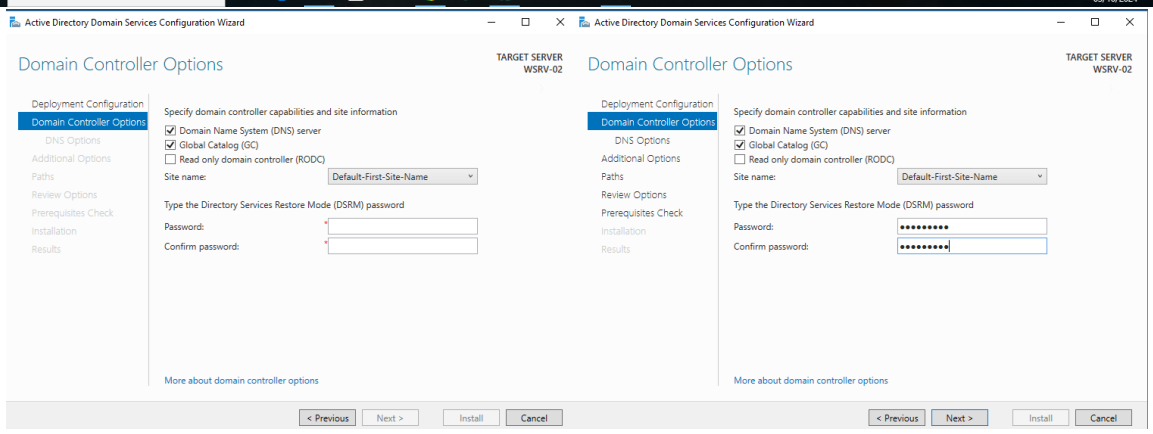


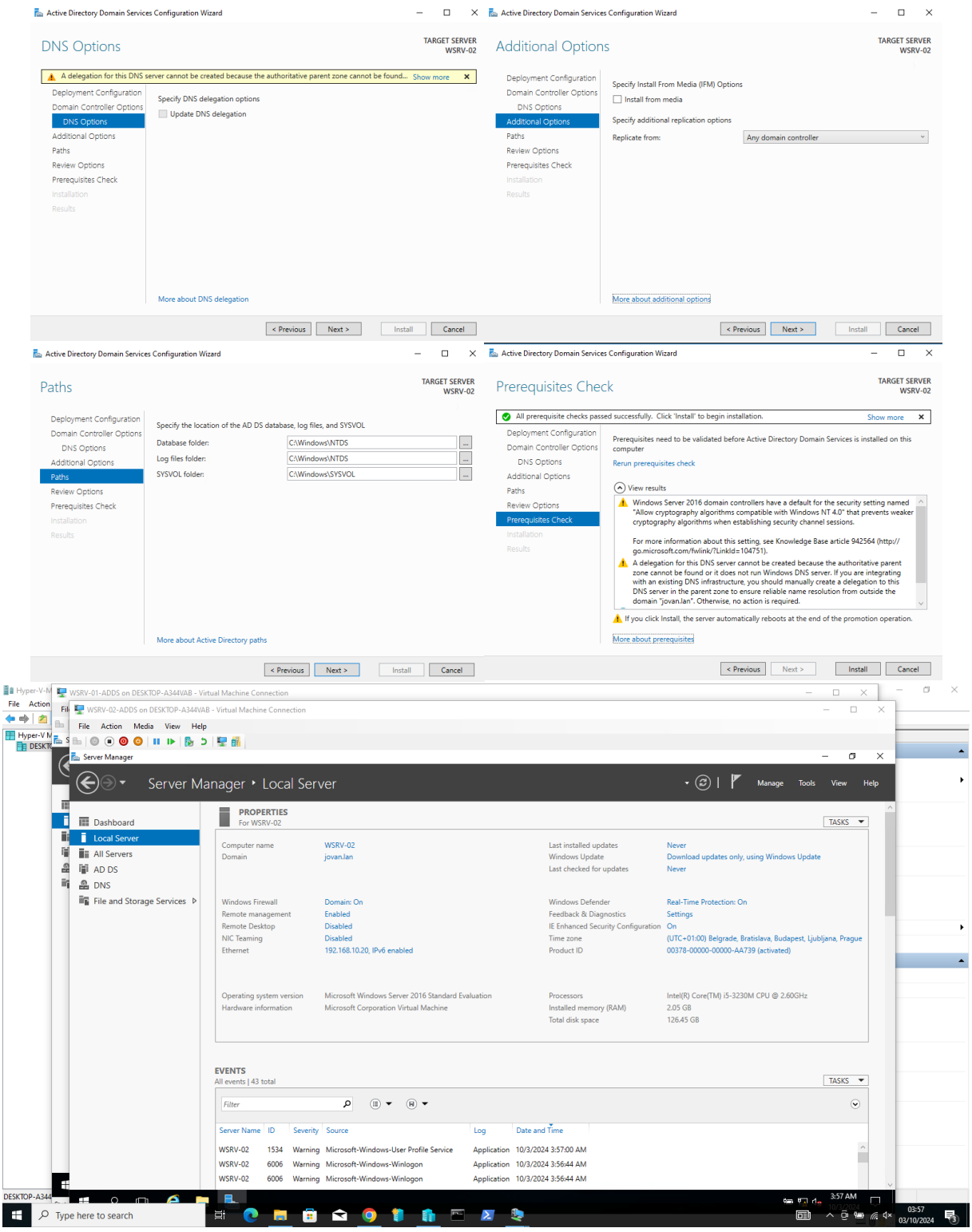


Deploy configuration follows the following steps, by ticking the section add server to an existing domain and clicking on the chage icon, we perform a search for existing domains, in this case jovan.lan. After successfully finding it, the steps are as follows :


WSRV-02-ADDS on DESKTOP-A344VAB - Virtual Machine Connection
File Action Media View Help
Server Manager
Server Manager ‣ Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
AD DS
File and Storage Services
Active Directory Domain Services Configuration Wizard
Deployment Configuration
TARGET SERVER
WSRV-02
Windows Security
Credentials for deployment operation
Supply credentials for the deployment operation
administrator@jovan.lan
Domain: jovan.lan
OK
Cancel
Select...
Change...
More about deployment configurations
< Previous
Next >
Install
Cancel
Close
Hide
Type here to search
3:42 AM
10/3/2024
03:42
03/10/2024


WSRV-02-ADDS on DESKTOP-A344VAB - Virtual Machine Connection
File Action Media View Help
Server Manager
Server Manager ‣ Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
AD DS
File and Storage Services
Active Directory Domain Services Configuration Wizard
Deployment Configuration
TARGET SERVER
WSRV-02
Deployment Configuration
Domain Controller Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Select the deployment operation
Add a domain controller to an existing domain
Add a new domain to an existing forest
Add a new forest
Specify the domain information for this operation
Domain:
jovan.lan
Select...
Supply the credentials to perform this operation
administrator@jovan.lan
Change...
More about deployment configurations
< Previous
Next >
Install
Cancel
Close
Hide
Type here to search
3:42 AM
10/3/2024
03:42
03/10/2024

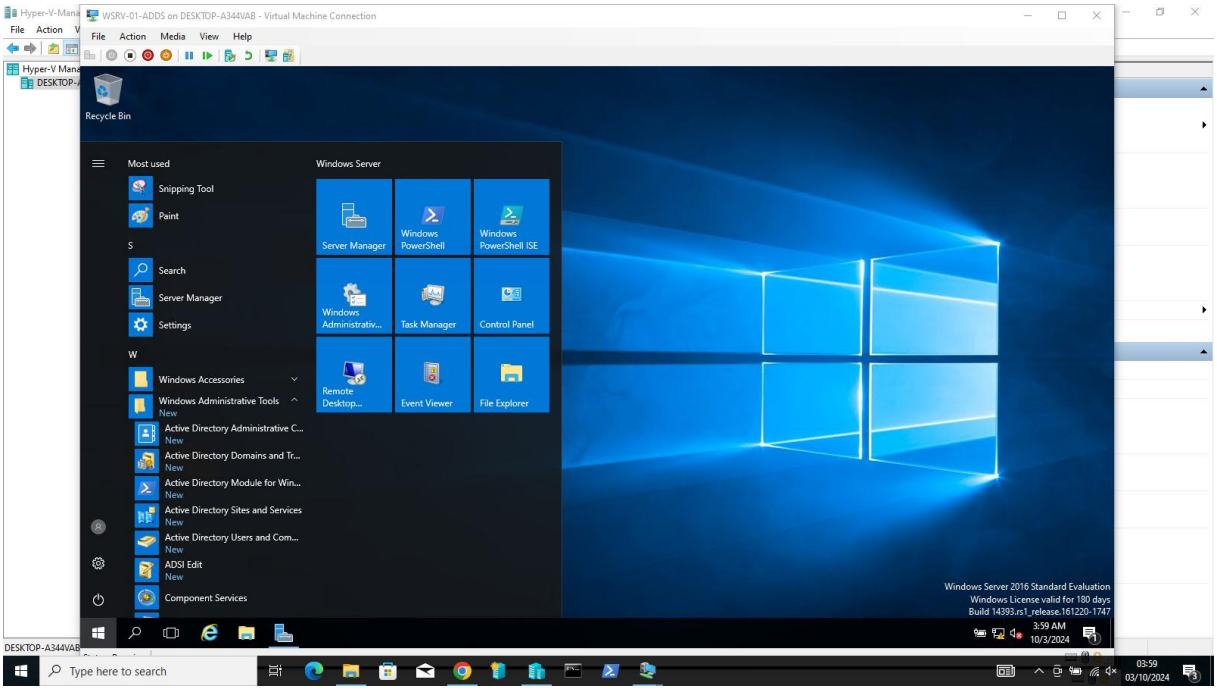

Active Directory Domain Services Configuration Wizard
Domain Controller Options
TARGET SERVER
WSRV-02
Deployment Configuration
Domain Controller Options
DNS Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Specify domain controller capabilities and site information
Domain Name System (DNS) server
Global Catalog (GC)
Read only domain controller (RODC)
Site name:
Default-First-Site-Name
Type the Directory Services Restore Mode (DSRM) password
Password:
Confirm password:
More about domain controller options
< Previous
Next >
Install
Cancel

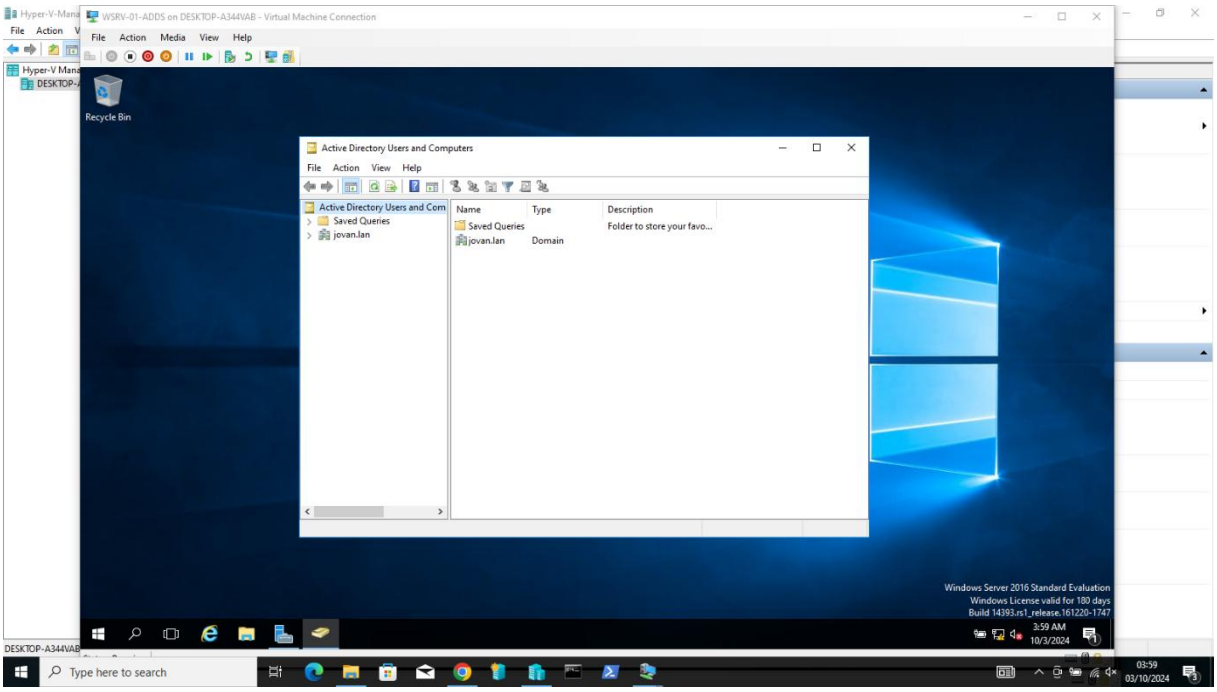


The last screenshot shows the content by which server number 2 was successfully added to an existing domain. The following heading will show what actions are possible with users and computers.

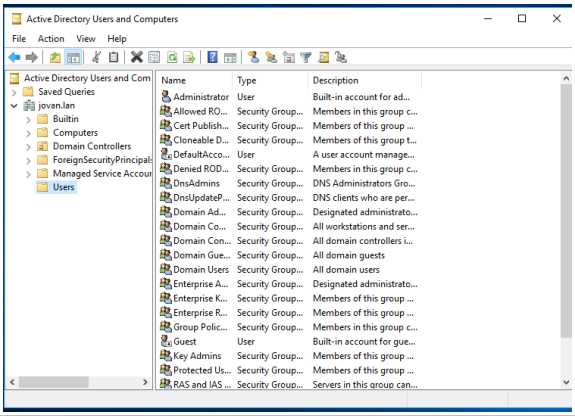
CREATING OBJECTS IN A DOMAIN

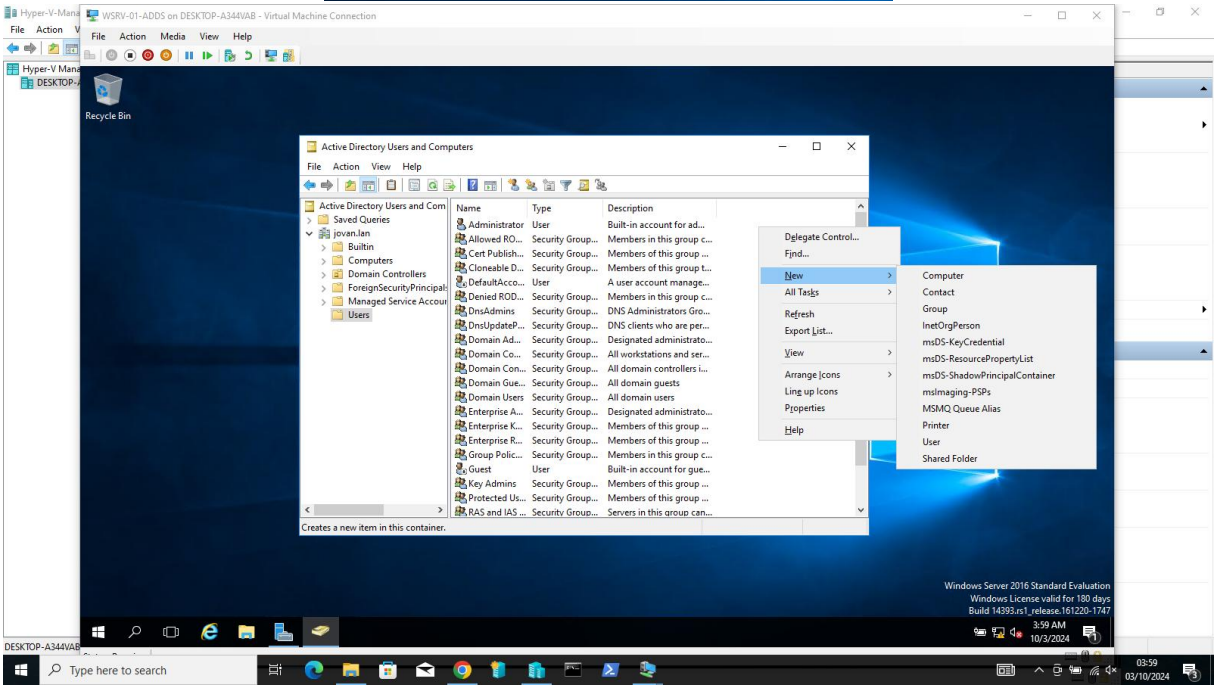
This title presents the functionalities provided by the AD DS roll. The first is Active Directory Users and Computers.

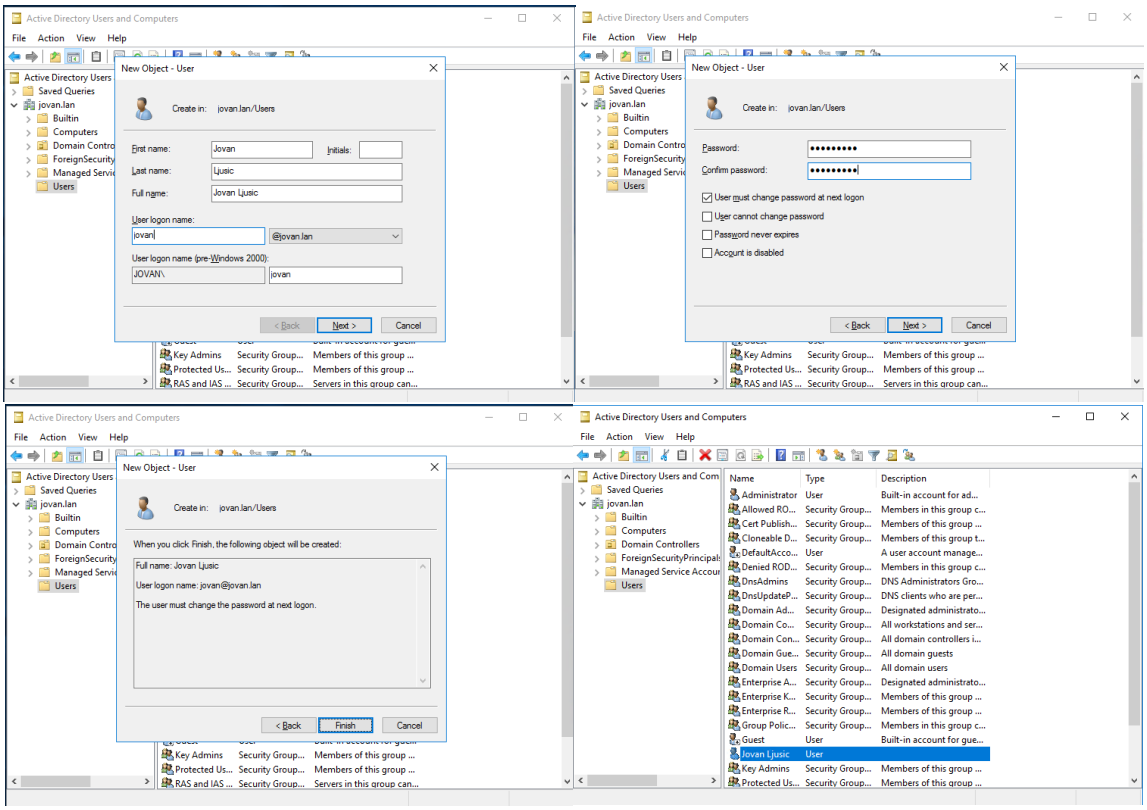




USER ACCOUNT



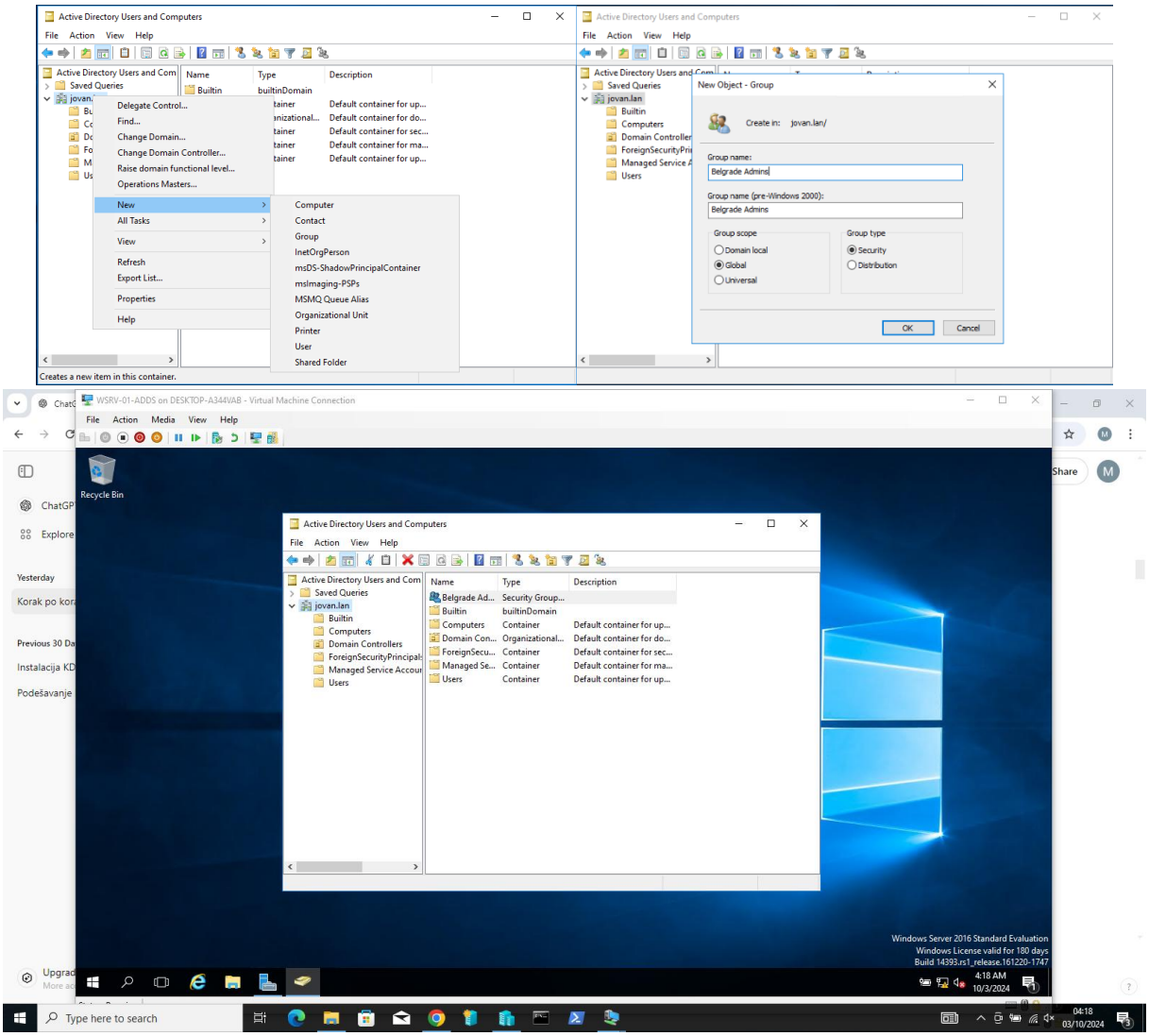




Here's how to successfully add a user through the Active Directory functionality, the steps are present through screenshots, and follow the task guidelines.

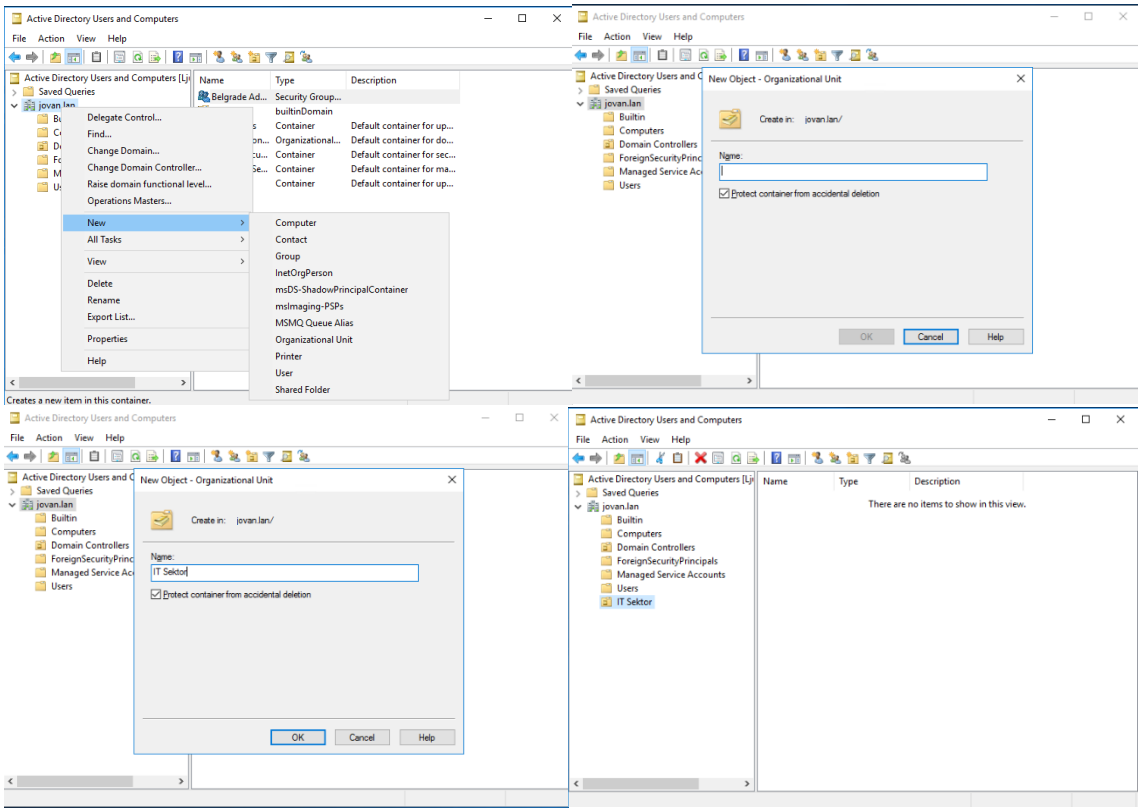
- *user account, which will be called: your name.surname;*

- *a Global Security group to be called: vas_grad Admins (e.g., Belgrade Admins);*



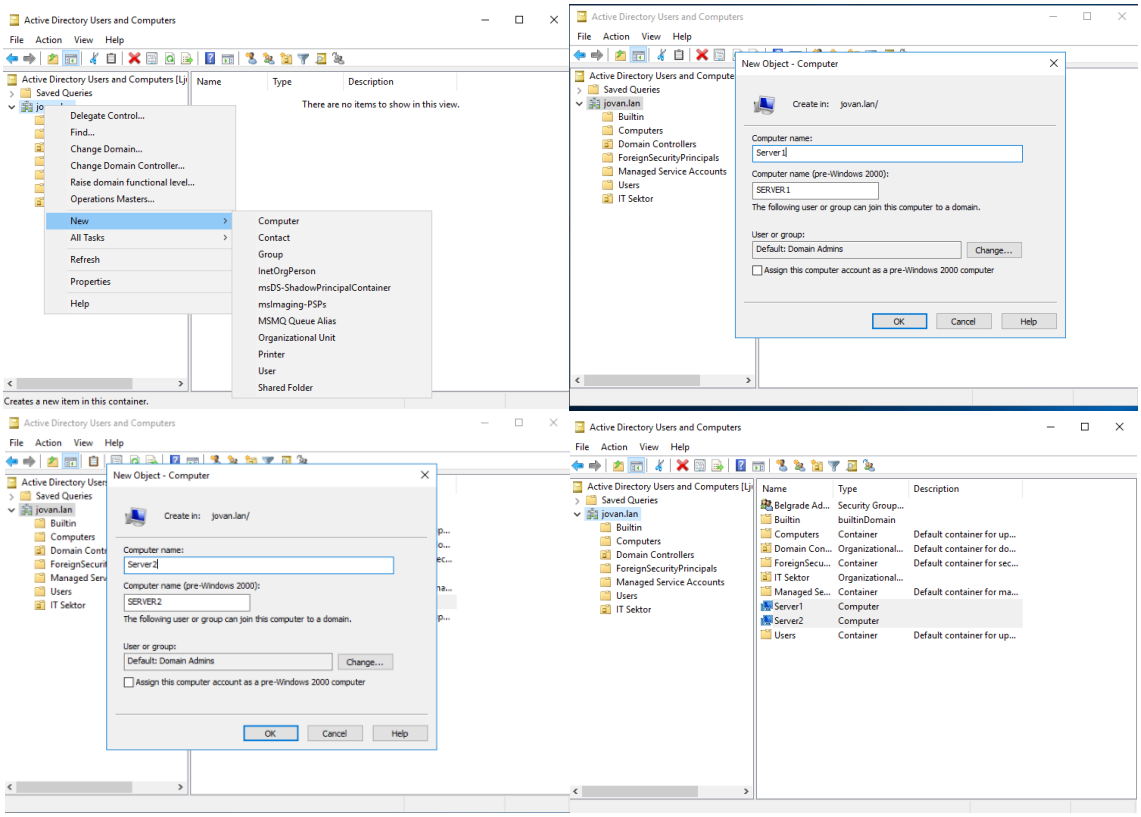
ORGANIZATIONAL UNIT

- *An organizational unit that will have a name of your choice.*



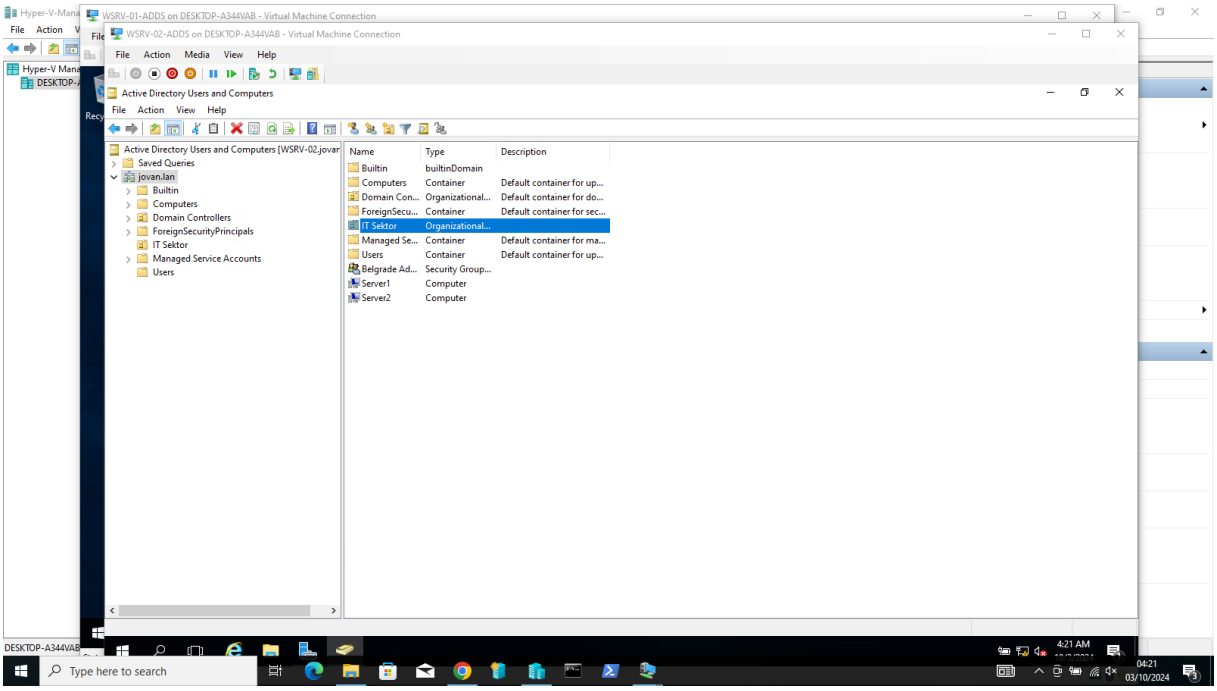
COMPUTER ORDERS

- *There are two computer accounts: SERVER-1 and SERVER-2.*



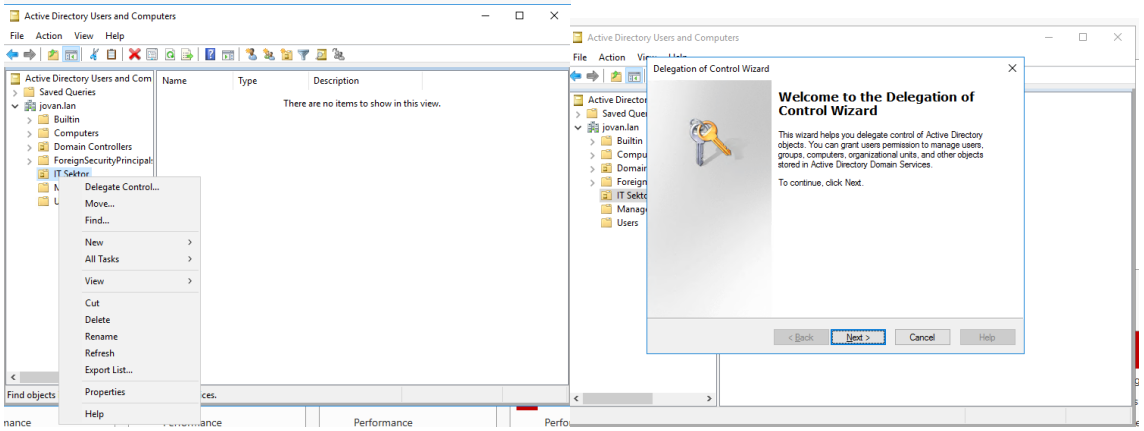
RESETTING ANOTHER SERVER

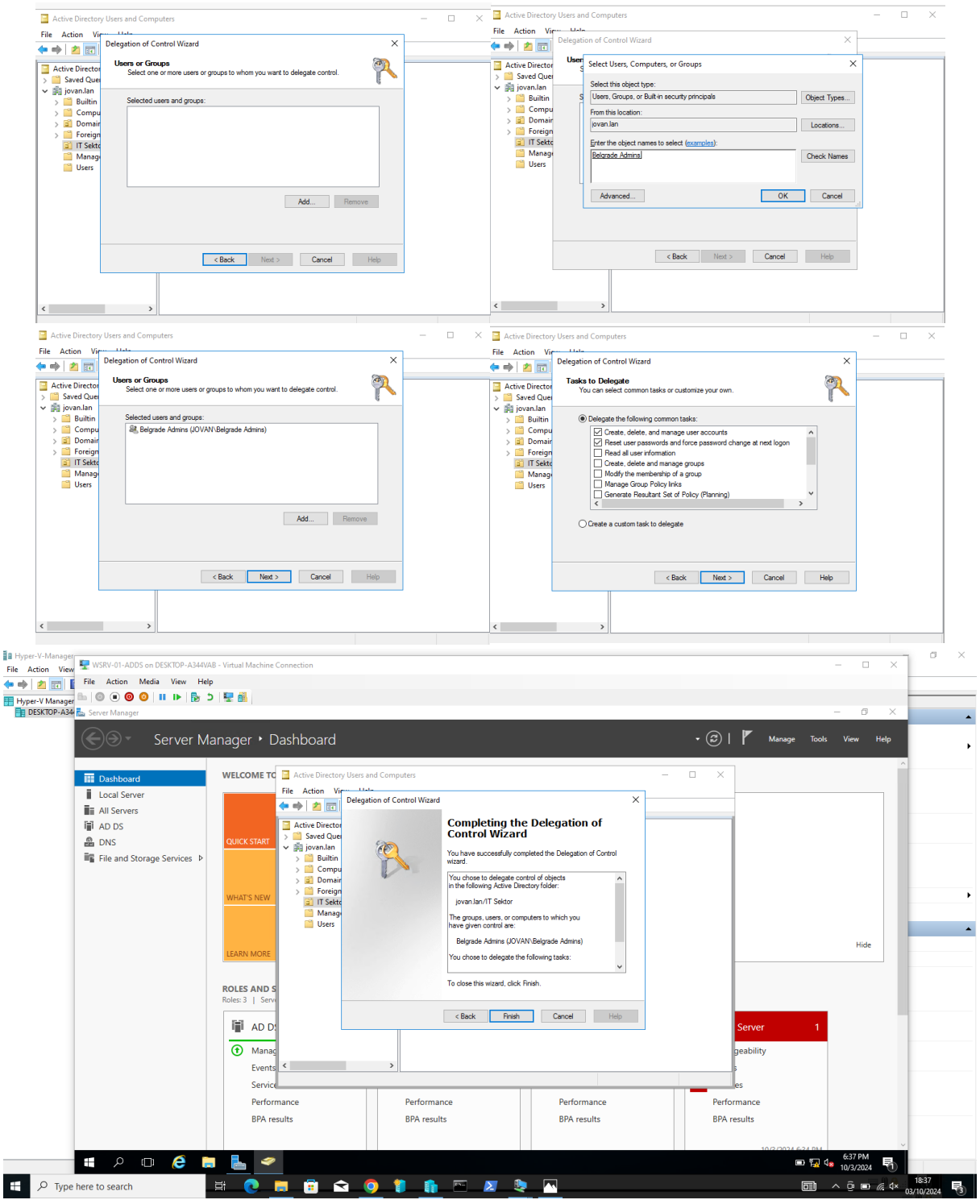
2. Reset the SERVER-2 computer account, and then activate this computer account so that users can log in to the domain again through it.



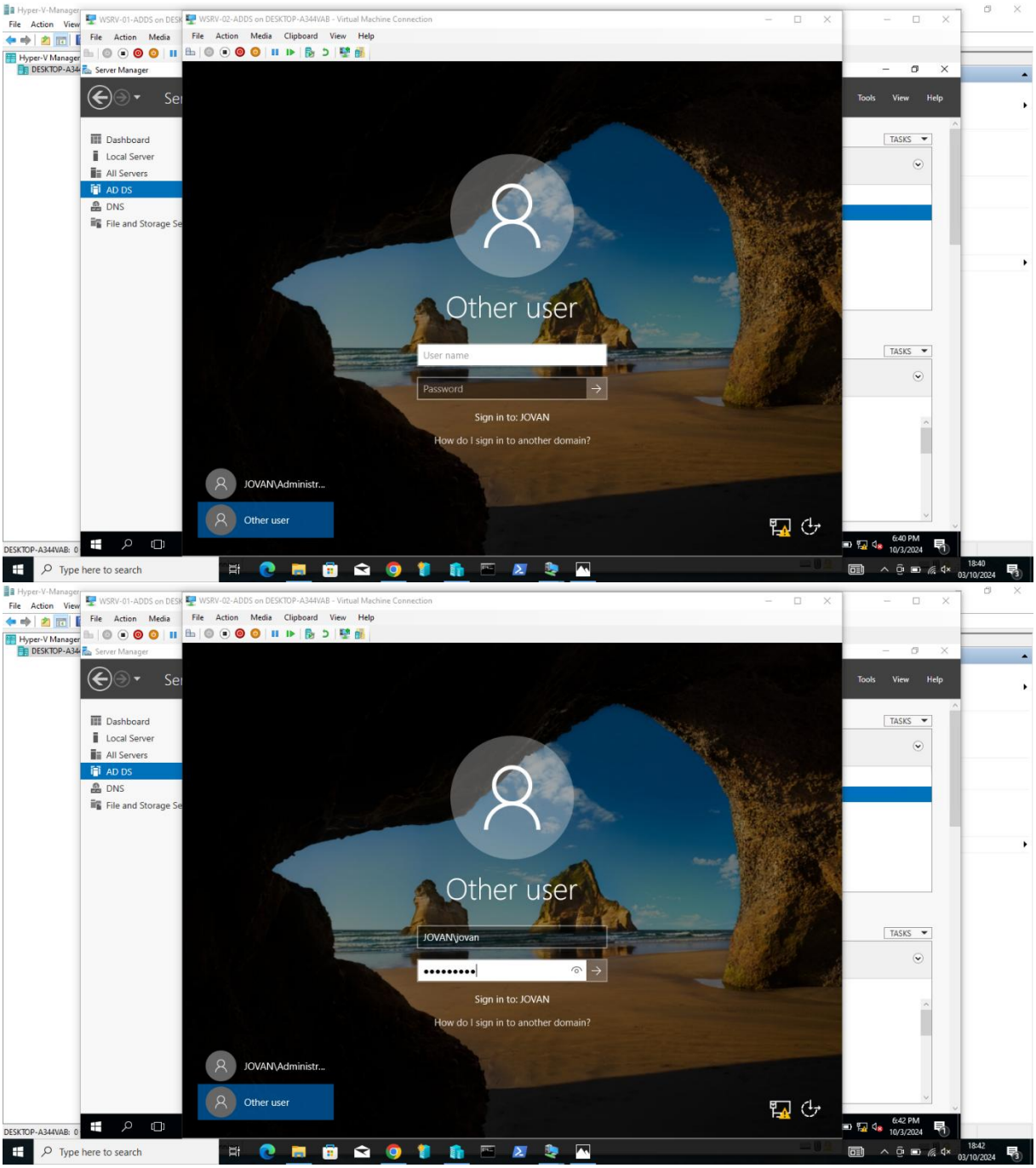
DELEGATING CONTROL TO THE GROUP.

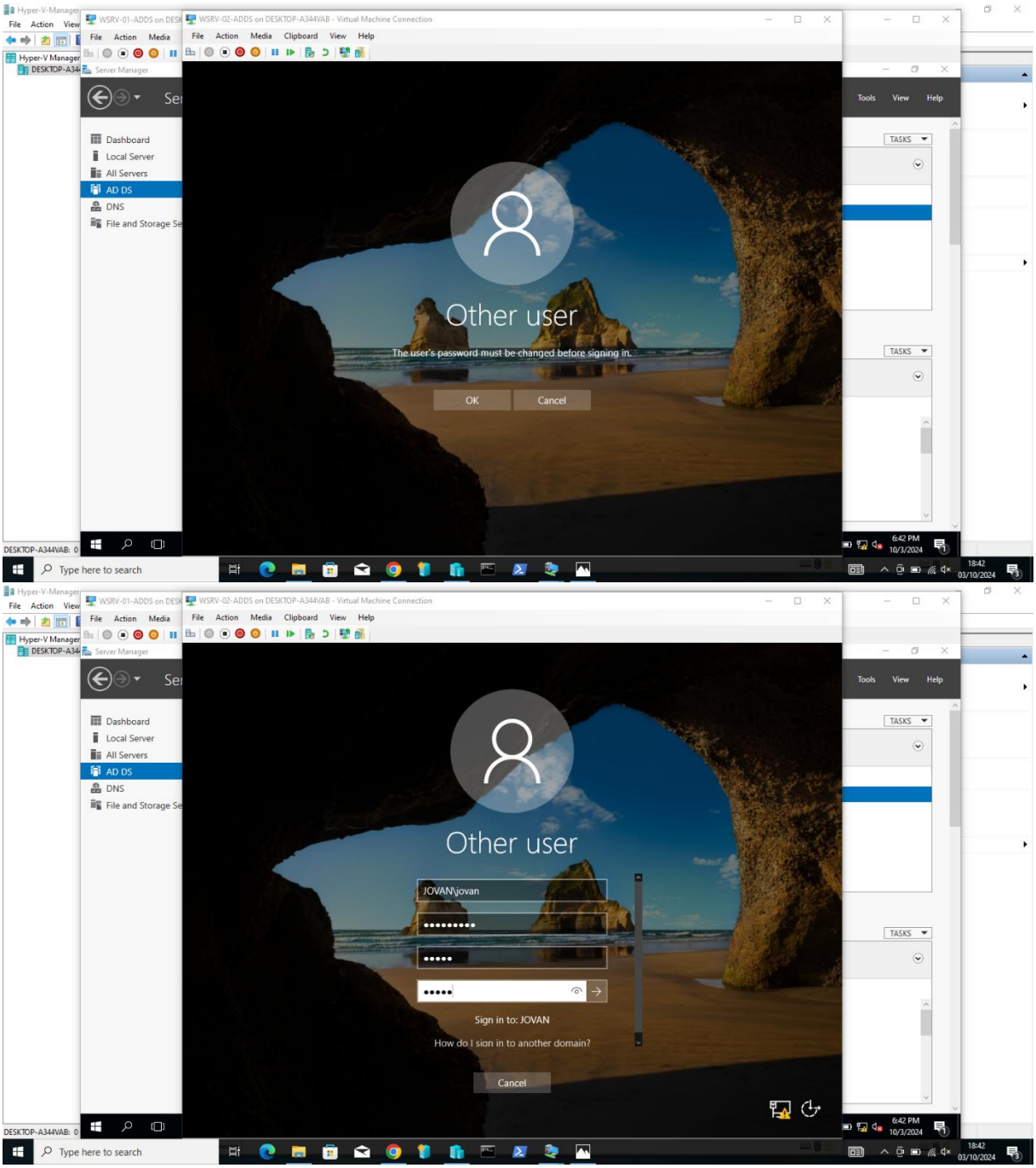
3. Add your user account to the previously created group. Delegate control to this group by importing computers into the domain and changing their membership in this group.





DISPLAYING THE LOGIN OF ANOTHER USER ACCOUNT


WSRV-02-ADDS on DESKTOP-A344VAB - Virtual Machine Connection
File Action Media Clipboard View Help
Other user
User name
Password
Sign in to: JOVAN
How do I sign in to another domain?
JOVAN\Administr...
Other user
Server Manager
Dashboard
Local Server
All Servers
AD DS
DNS
File and Storage Se
Tools View Help
TASKS
Type here to search
6:40 PM
10/3/2024
18:40
03/10/2024
WSRV-02-ADDS on DESKTOP-A344VAB - Virtual Machine Connection
File Action Media Clipboard View Help
Other user
JOVAN\jovan
Sign in to: JOVAN
How do I sign in to another domain?
JOVAN\Administr...
Other user
Server Manager
Dashboard
Local Server
All Servers
AD DS
DNS
File and Storage Se
Tools View Help
TASKS
Type here to search
6:42 PM
10/3/2024
18:42
03/10/2024


WSRV-02-ADDS on DESKTOP-A344VAB - Virtual Machine Connection
File Action Media Clipboard View Help
Other user
The user's password must be changed before signing in.
OK
Cancel
Dashboard
Local Server
All Servers
AD DS
DNS
File and Storage Se
Tools View Help
TASKS
Type here to search
6:42 PM
10/3/2024
18:42
03/10/2024
WSRV-02-ADDS on DESKTOP-A344VAB - Virtual Machine Connection
File Action Media Clipboard View Help
Other user
JOVAN\jovan
Sign in to: JOVAN
How do I sign in to another domain?
Cancel
Dashboard
Local Server
All Servers
AD DS
DNS
File and Storage Se
Tools View Help
TASKS
Type here to search
6:42 PM
10/3/2024
18:42
03/10/2024