TOPIC : INSTALLING, UPGRADING, AND MIGRATING SERVERS AND WORKLOADS

Objective:

- Understand how to install and configure Nano Server.
- Perform post-installation configuration tasks on Nano Server.
- Enable remote management and verify Nano Server functionalities (file server and web server).

Pre-requisites:

- Windows Server 2016 ISO / installation media.
- Virtual machines:
    - LON-DC1 (Windows Server 2016 Datacenter – GUI).
    - NANO-SVR1 (Nano Server VM).
- Access to PowerShell with Administrator privileges.
- User credentials:
    - Username: Administrator
    - Password: Pa$$w0rd

Procedure:

Exercise 1: Installing Nano Server

Task 1: Copy required PowerShell scripts

1. On LON-DC1, open PowerShell (Admin).
2. Run:

```
cd\
md Nano
copy d:\NanoServer\NanoServerImageGenerator\*.ps* c:\nano
```

Task 2: Import PowerShell Module

```
Import-Module c:\nano\NanoServerImageGenerator.psm1
```

Task 3: Create a Nano Server VHDX

```
new-NanoServerImage -Edition Standard -mediapath D:\ -Basepath c:\nano -targetpath
```

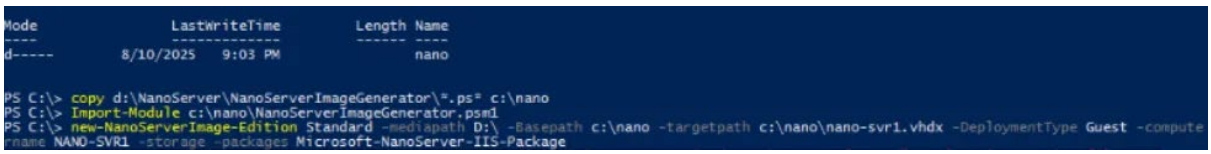
```
c:\nano\nano-svr1.vhdx -DeploymentType Guest -computername NANO-SVR1 -storage -packages Microsoft-
```

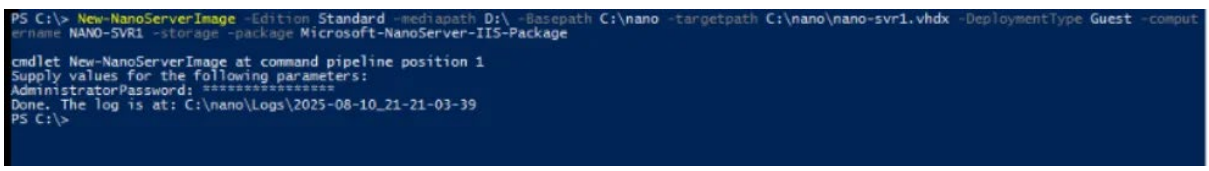
```
-NanoServer-IIS-Package
```

- Enter password: Pa$$w0rd
- Verify file nano-svr1.vhdx exists in C:\Nano.

Task 4: Sign in to Nano Server VM

- Username: Administrator
- Password: Pa$$w0rd





Exercise 2: Post-installation tasks

Task 1: Use Nano Recovery Console

- Verify computer name = NANO-SVR1.
- Note IP address from DHCP.

Task 2: Join Nano Server to Domain

On **LON-DC1**, run:

```
djoin.exe /provision /domain adatum /machine nano-svr1 /savefile .\odjblob
Set-Item WSMan:\localhost\Client\TrustedHosts "172.16.0.X"
$ip = "172.16.0.X"
Enter-PSSession -ComputerName $ip -Credential $ip\Administrator
netsh advfirewall firewall set rule group="File and Printer Sharing" new enable=yes
```

- Copy odjblob to Nano server and apply domain join:

```
djoin /requestodj /loadfile c:\odjblob /windowspath c:\windows /localos
shutdown /r /t 5
```

- Login again → confirm domain join (Adatum.com).

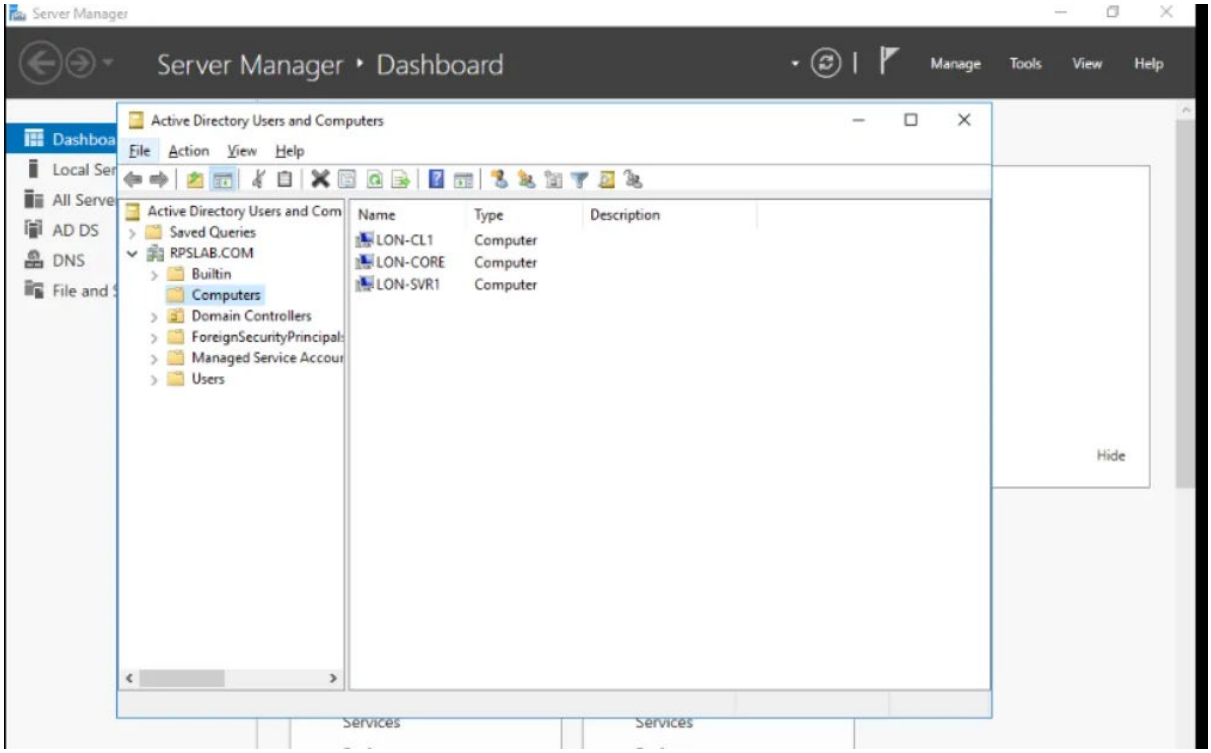
Task 3: Configure Nano Server

- Install File Server role:

```
install-windowsfeature Fs-fileserver –comp Nano-svr1
```

- Verify network and roles:

```
get-netipaddress
bcdedit /enum
net share
```



Exercise 3: Remote Management

Task 1: Enable remote management in Server Manager

- Add Nano-SVR1 in Server Manager.
- Create new SMB Share → Name: Data.

Task 2: Test File Server and Web Server

- Map drive:

```
net use z: \\Nano-svr1\c$
```

- Create simple webpage: z:\Inetpub\wwwroot\Default.htm
  Content: <H1> Nano Server Website </H1>
- Verify in Internet Explorer → http://nano-svr1.
- Map shared folder:

```
net use y: \\nano-svr1\data
```

- Save a document and verify accessibility.

Task 3: Cleanup / Prepare for Next Module

- Revert VMs (LON-DC1, NANO-SVR1) using Hyper-V Manager.

Conclusion

By completing this lab, we:

- Installed and configured Nano Server.
- Performed domain join, IP configuration, and role installation.
- Enabled remote management via Server Manager.
- Verified file sharing and web hosting functionality on Nano Server.

Thus, Module 1 successfully demonstrated installation, configuration, and remote management of Nano Server in Windows Server 2016.