5/17/2024

Activity 1 Practical

Network Architecture Project Part 2

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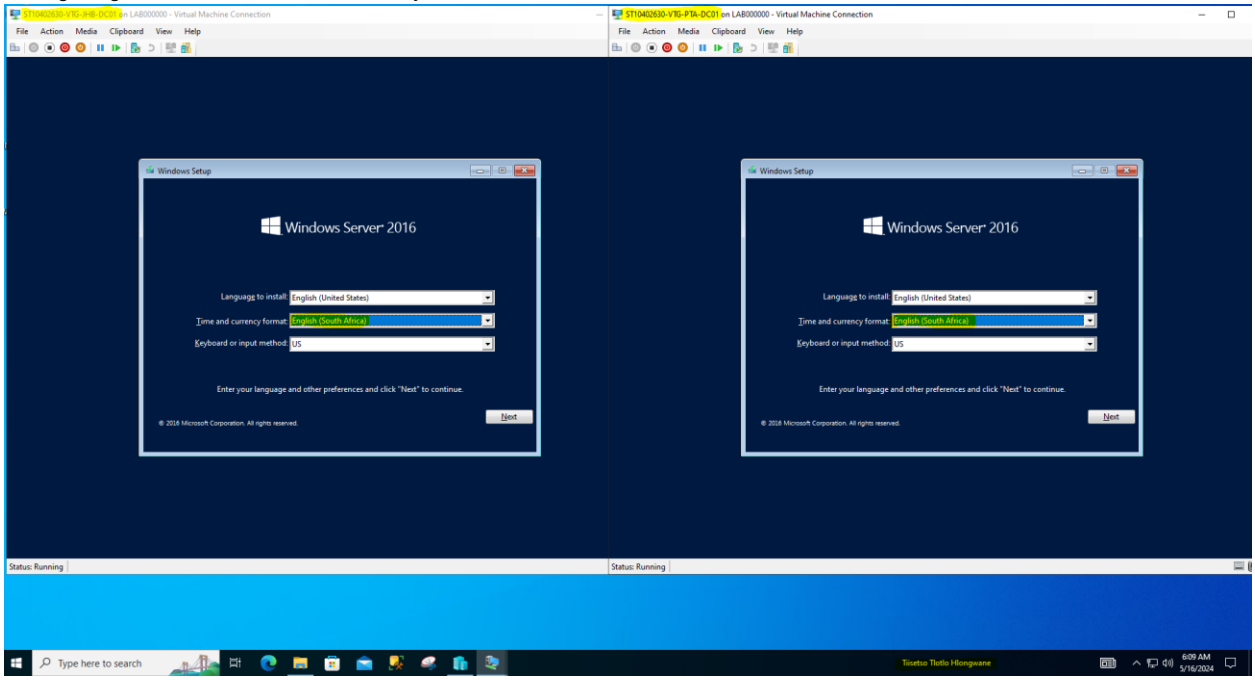
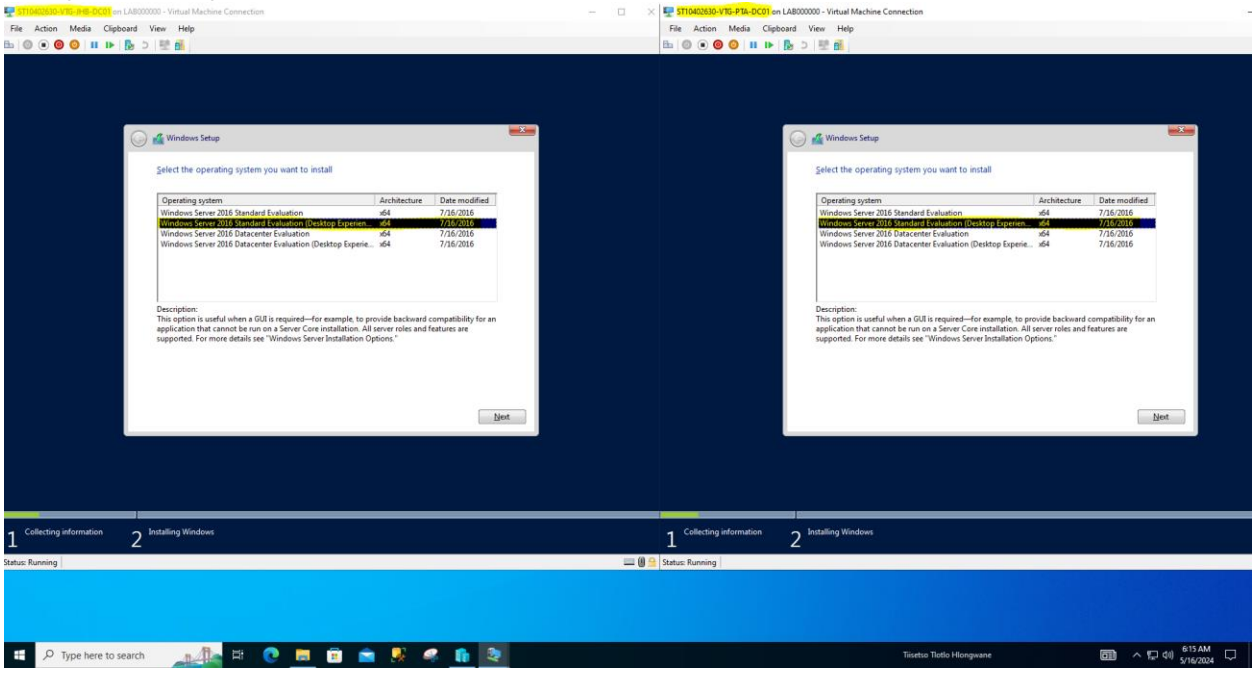
Installation, Naming and Configuring Servers.

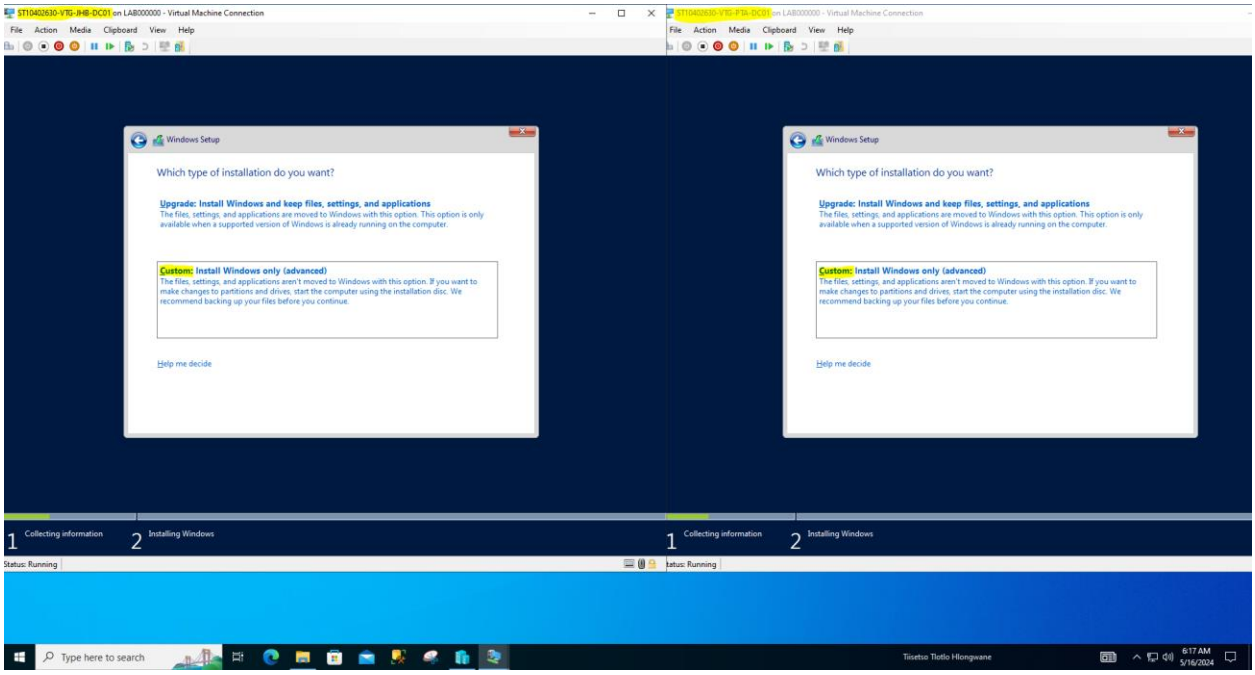
1. Configuring the current time and country for both JHB & PTA server installation.



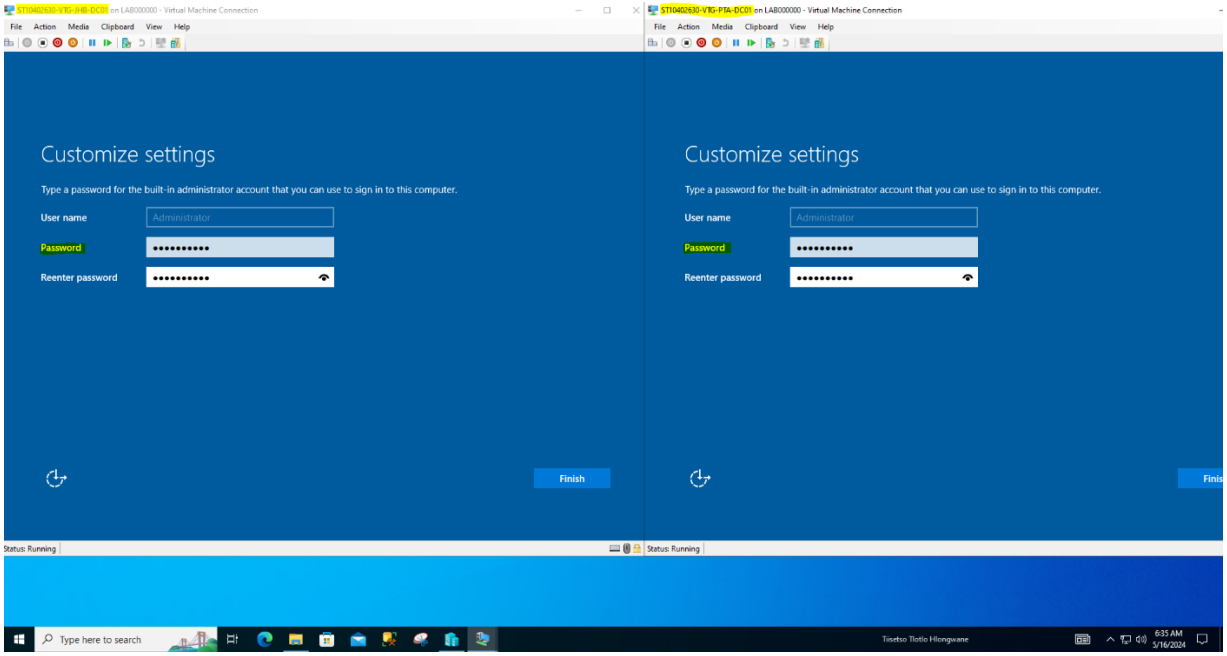
2. Setting up Operating System to install for both Servers to Operate optimally.



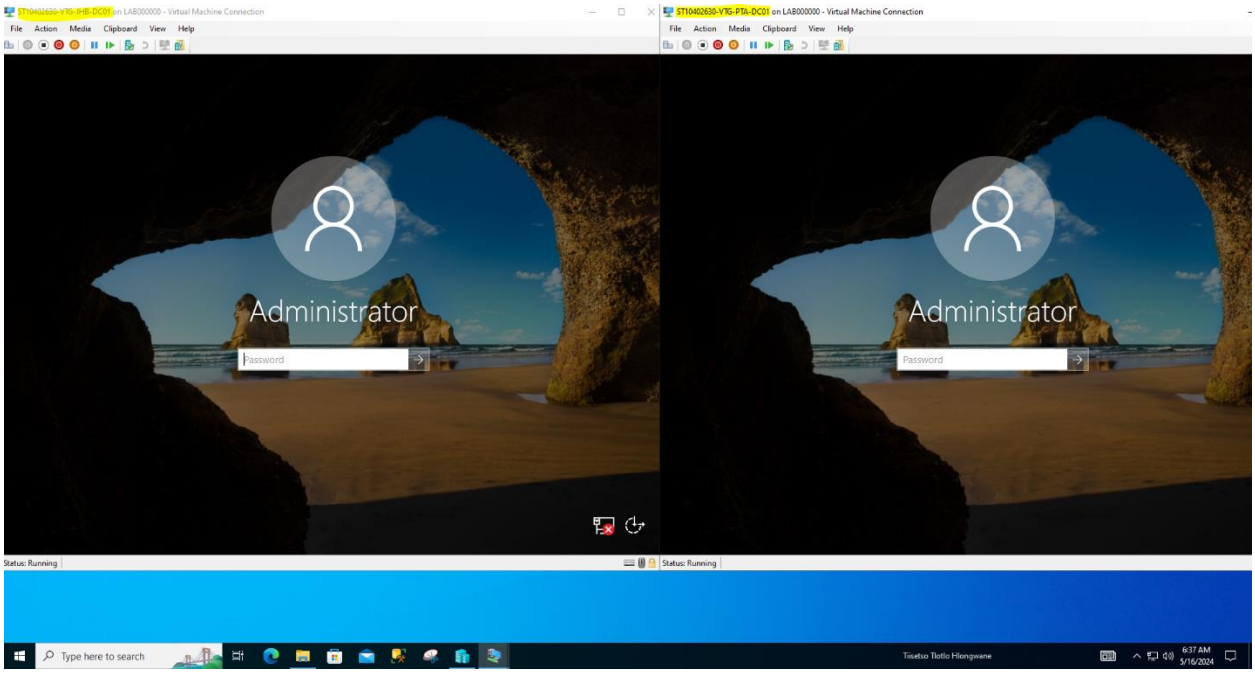
3. Choosing the Custom Install Window for both Servers.



4. Setting up Administrator Password for both Servers.

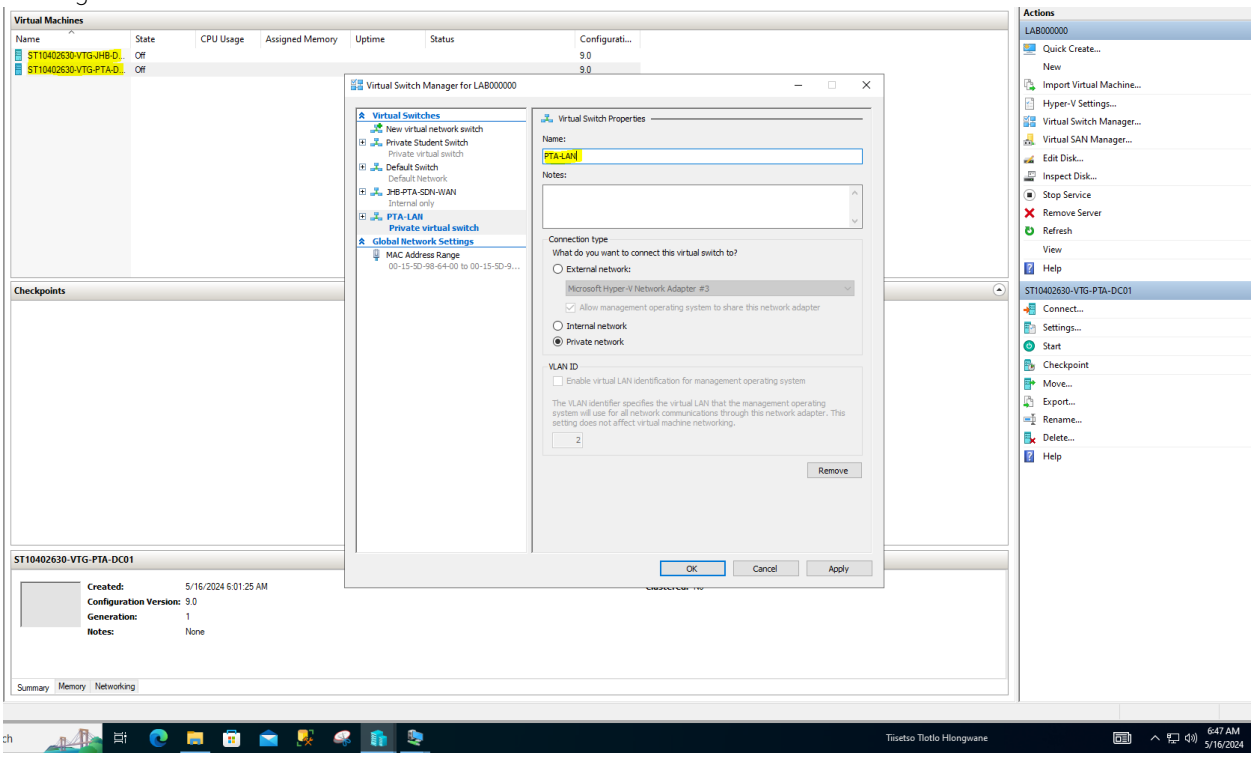


5. Server Installation and Configuration Complete.

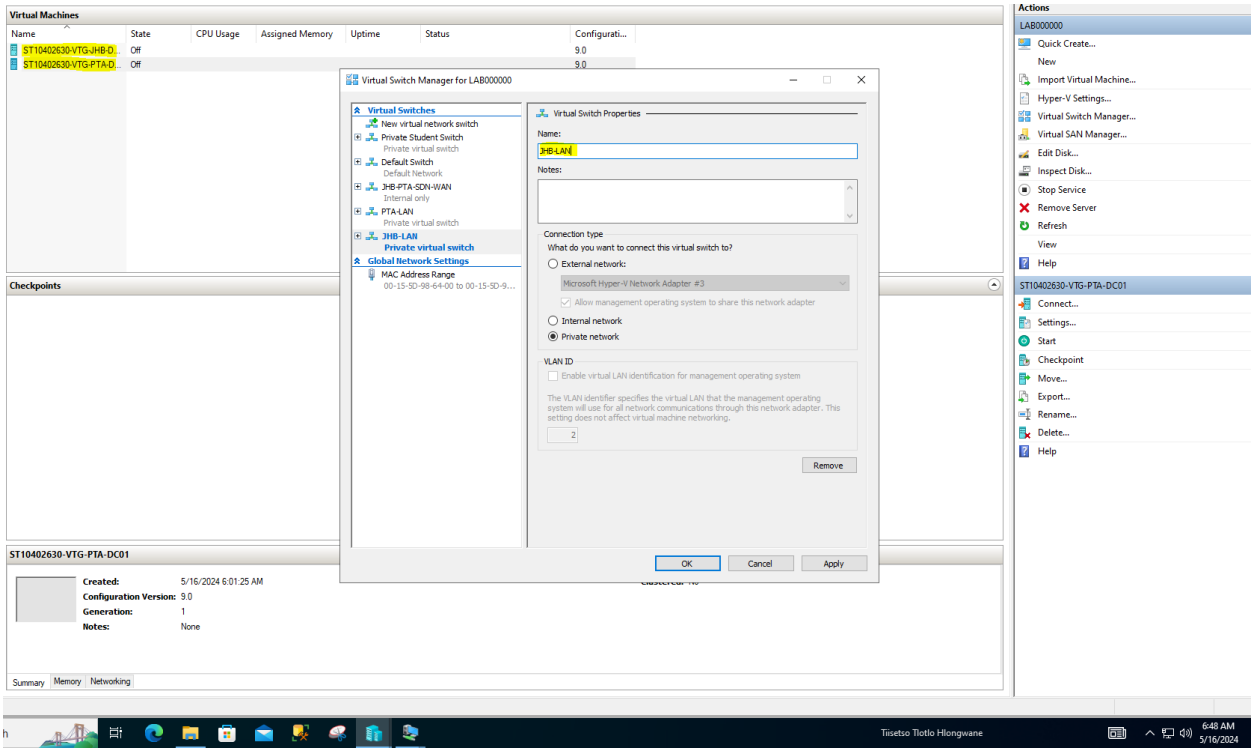


Server LAN IP Address assigned according to the IP Address Plan.

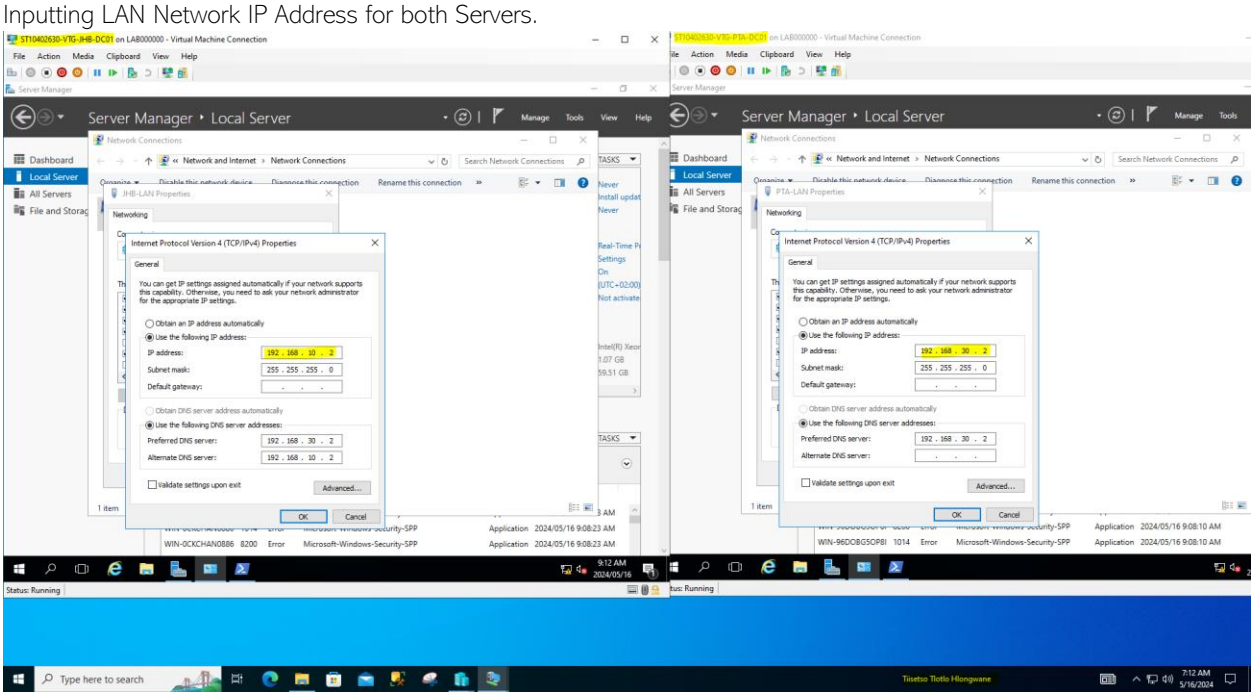
1. Creating PTA-LAN Switch.



2. Creating JHB-LAN Switch.

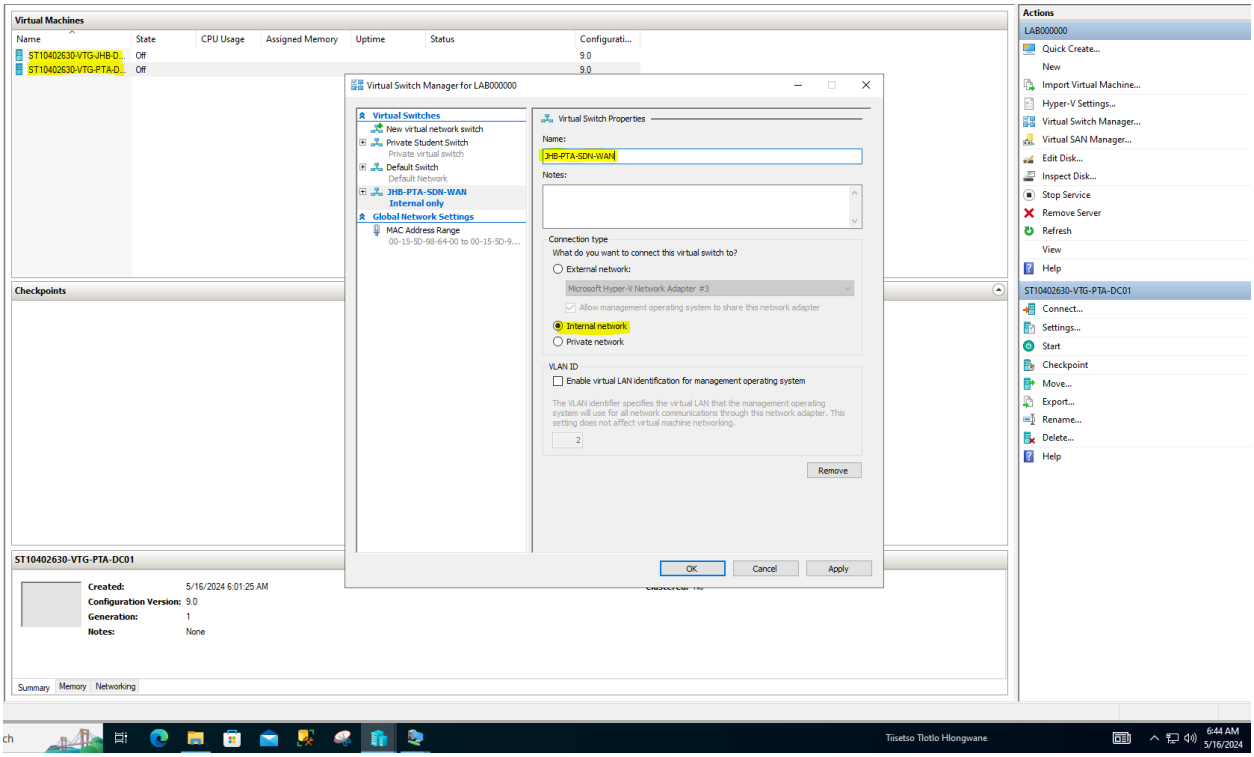


3. Inputting LAN Network IP Address for both Servers.

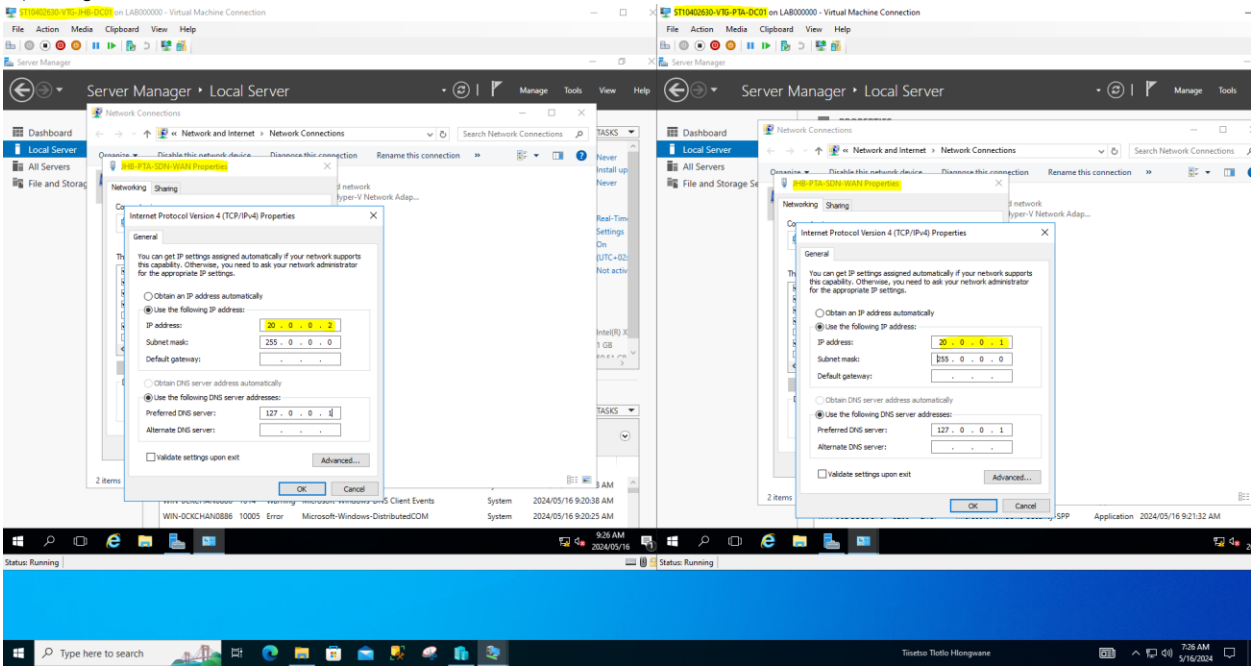


Server WAN IP Address assigned Using Public IP Address Plan.

1. Creating SDN-WAN Switch.

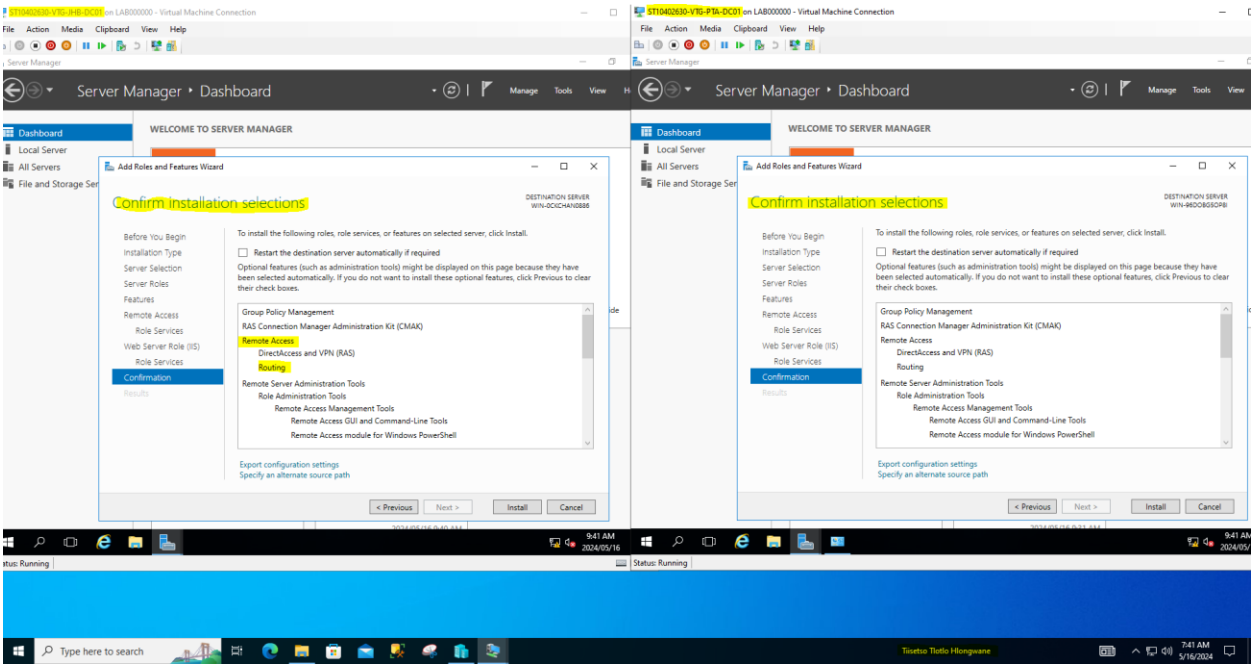


2. Inputting JHB-PTA-SDN-WAN switch IP addresses for both Servers.

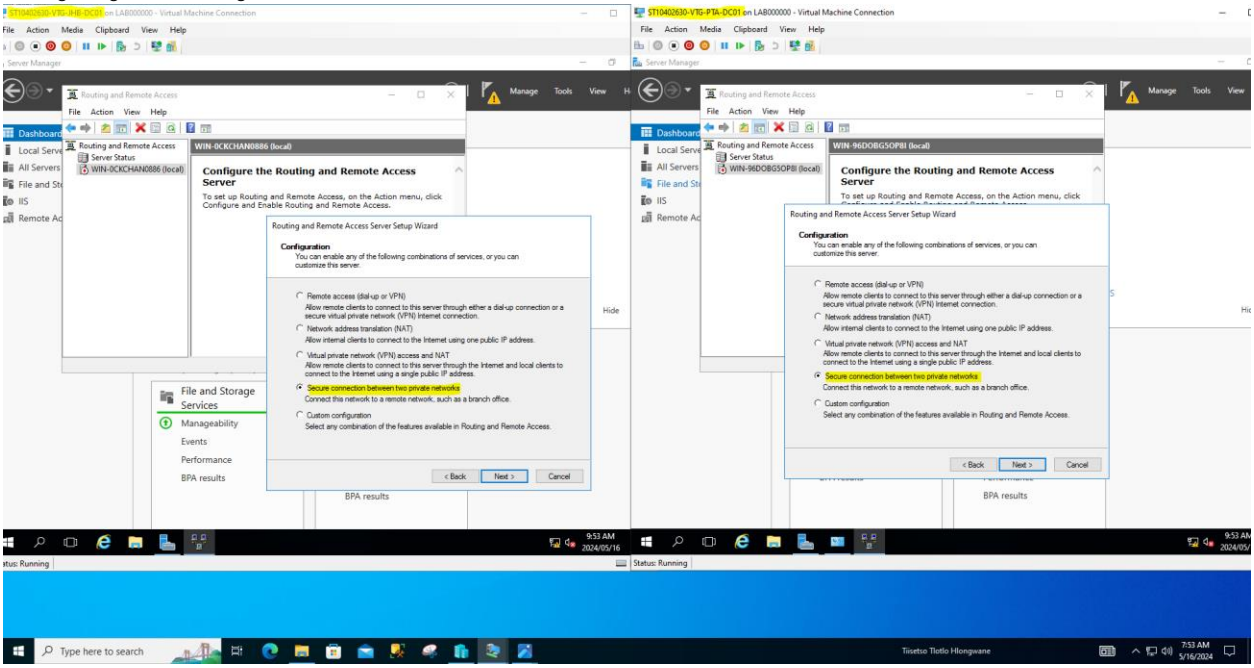


Routing Between 2 Servers Successfully Configured.

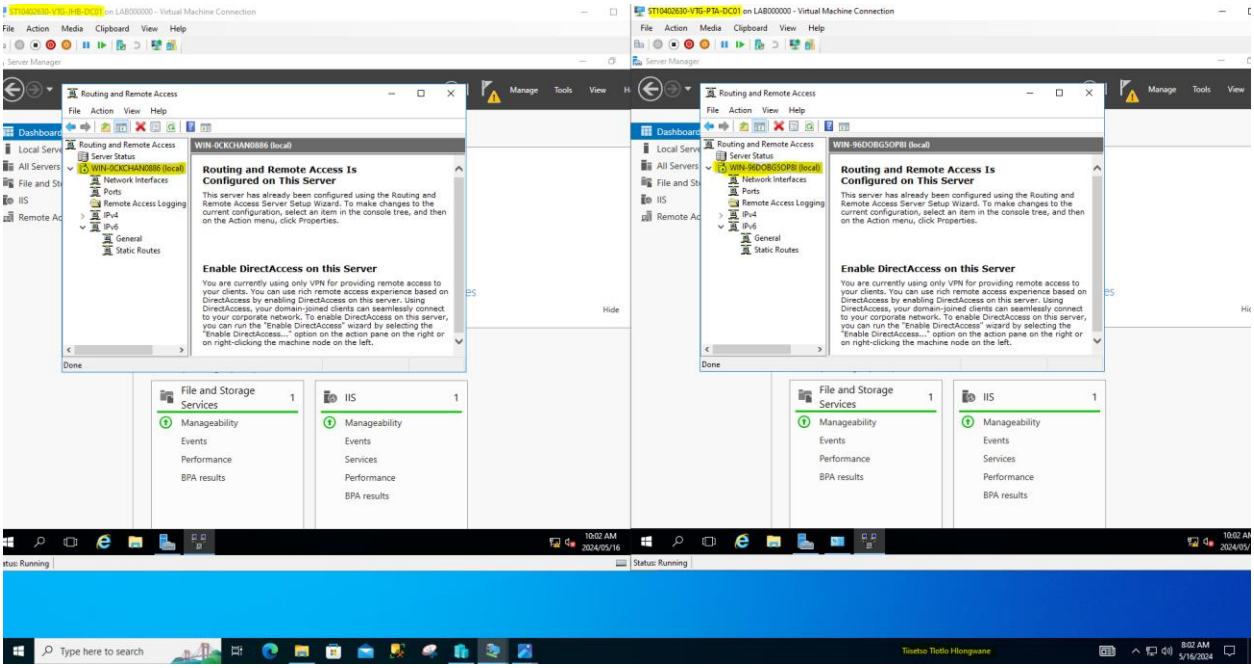
1. Add Remote and Routing Access installation



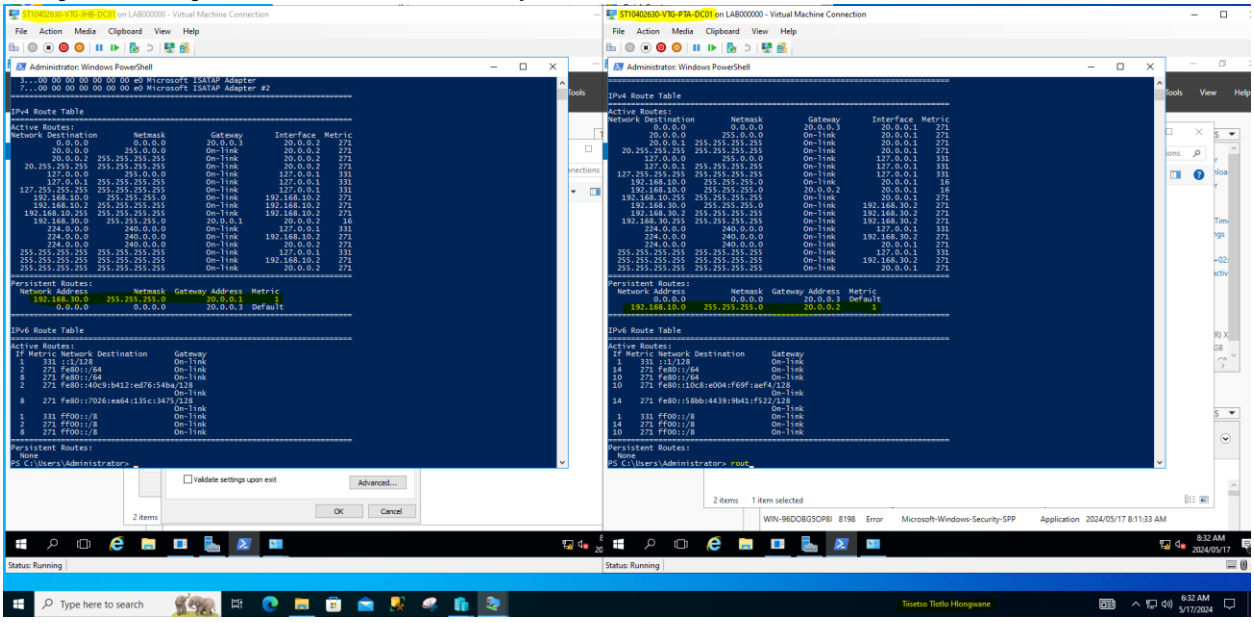
2. Configuring the Routing and Remote Access for both Servers.



3. Routing and Remote access configuration Complete.

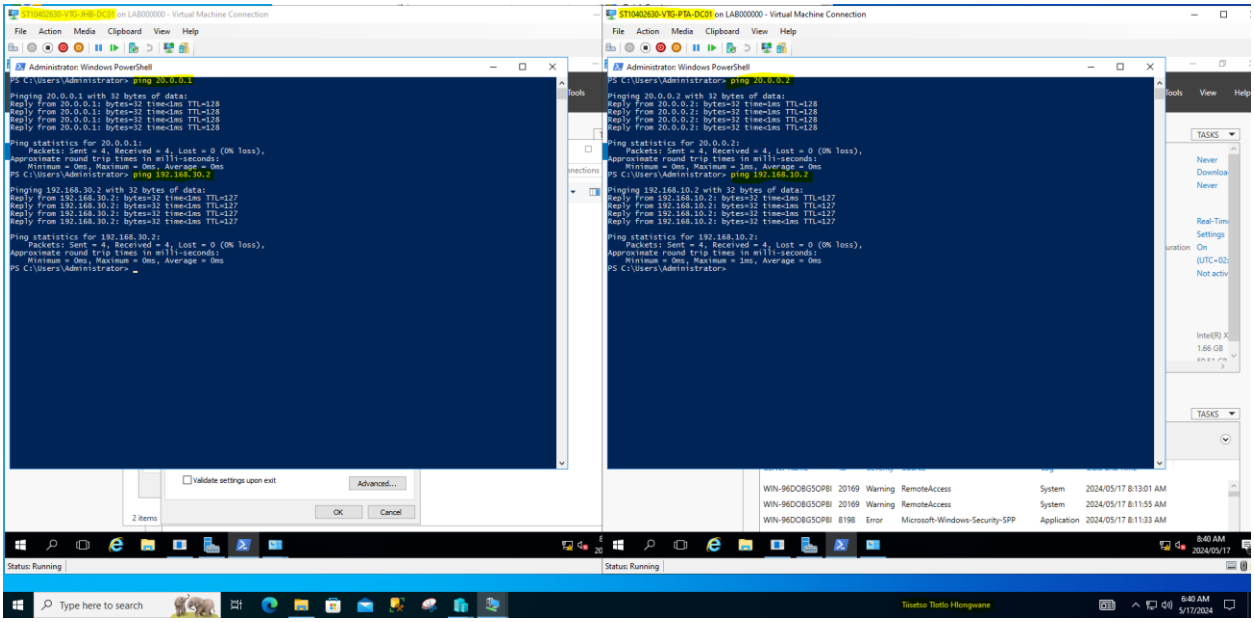


4. Configured Routing between 2 servers successfully.



Two Servers Successfully Communicating.

1. Pinged with both switches and both Servers Successfully Communicating.


ST10402630-VTG-JHB-DC01 on LAB000000 - Virtual Machine Connection
File Action Media Clipboard View Help
Administrator: Windows PowerShell
PS C:\Users\Administrator> ping 20.0.0.1
Pinging 20.0.0.1 with 32 bytes of data:
Reply from 20.0.0.1: bytes=32 time<1ms TTL=128
Reply from 20.0.0.1: bytes=32 time<1ms TTL=128
Reply from 20.0.0.1: bytes=32 time<1ms TTL=128
Reply from 20.0.0.1: bytes=32 time<1ms TTL=128
Ping statistics for 20.0.0.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
PS C:\Users\Administrator> ping 192.168.30.2
Pinging 192.168.30.2 with 32 bytes of data:
Reply from 192.168.30.2: bytes=32 time<1ms TTL=127
Reply from 192.168.30.2: bytes=32 time<1ms TTL=127
Reply from 192.168.30.2: bytes=32 time<1ms TTL=127
Reply from 192.168.30.2: bytes=32 time<1ms TTL=127
Ping statistics for 192.168.30.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
PS C:\Users\Administrator>
Validate settings upon exit
Advanced...
OK
Cancel
2 items
Status: Running
ST10402630-VTG-PTA-DC01 on LAB000000 - Virtual Machine Connection
File Action Media Clipboard View Help
Administrator: Windows PowerShell
PS C:\Users\Administrator> ping 20.0.0.2
Pinging 20.0.0.2 with 32 bytes of data:
Reply from 20.0.0.2: bytes=32 time<1ms TTL=128
Reply from 20.0.0.2: bytes=32 time<1ms TTL=128
Reply from 20.0.0.2: bytes=32 time<1ms TTL=128
Reply from 20.0.0.2: bytes=32 time<1ms TTL=128
Ping statistics for 20.0.0.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
PS C:\Users\Administrator> ping 192.168.10.2
Pinging 192.168.10.2 with 32 bytes of data:
Reply from 192.168.10.2: bytes=32 time<1ms TTL=127
Reply from 192.168.10.2: bytes=32 time<1ms TTL=127
Reply from 192.168.10.2: bytes=32 time<1ms TTL=127
Reply from 192.168.10.2: bytes=32 time<1ms TTL=127
Ping statistics for 192.168.10.2:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
PS C:\Users\Administrator>
WIN-96DOBG5OPBI 20169 Warning RemoteAccess System 2024/05/17 8:13:01 AM
WIN-96DOBG5OPBI 20169 Warning RemoteAccess System 2024/05/17 8:11:55 AM
WIN-96DOBG5OPBI 8198 Error Microsoft-Windows-Security-SPP Application 2024/05/17 8:11:33 AM
Status: Running
Type here to search
Tiisetso Tlotlo Hlongwane
6:40 AM
5/17/2024