

Name: Given

Surname: Mogowe

Module: NWAR6211

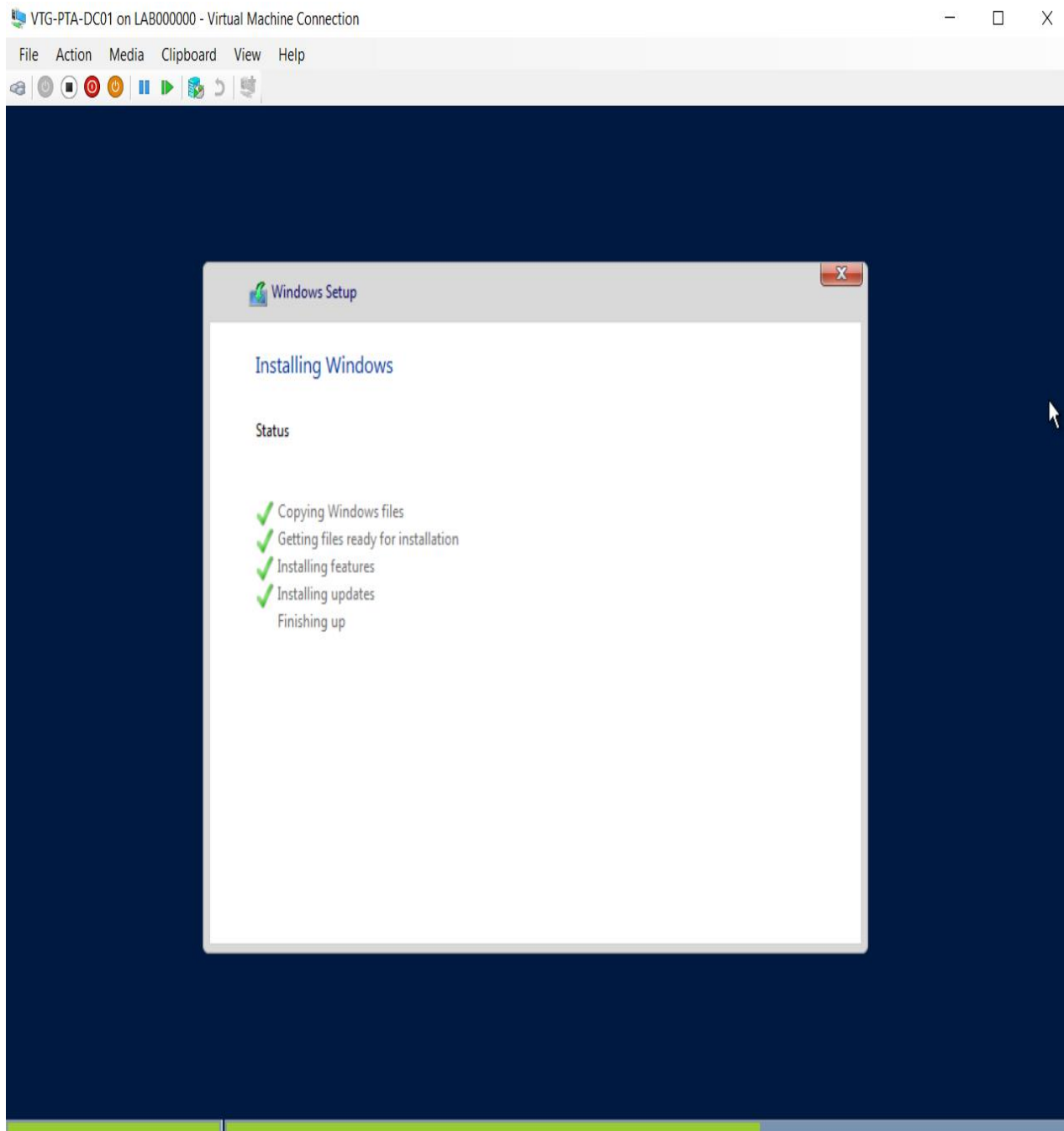
Assessment-type: Network Architecture Part 2 Poe

Date: 17 May 2023

Question 1

Activity 1

Install and configure Windows Server 2016 Routing



Virtual Switches

New virtual network switch

+ JHB-PTA-SDN-WAN

Internal only

+ PTA-LAN

Private virtual switch

+ JHB-LAN

Private virtual switch

Global Network Settings

MAC Address Range

00-15-5D-00-21-00 to 00-15-5D-0...

Virtual Switch Properties

Name:

JHB-LAN

Notes:

Connection type

What do you want to connect this virtual switch to?

☐ External network:

Microsoft Hyper-V Network Adapter #3

☒ Allow management operating system to share this network adapter☐ Enable single-root I/O virtualization (SR-IOV)☐ 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

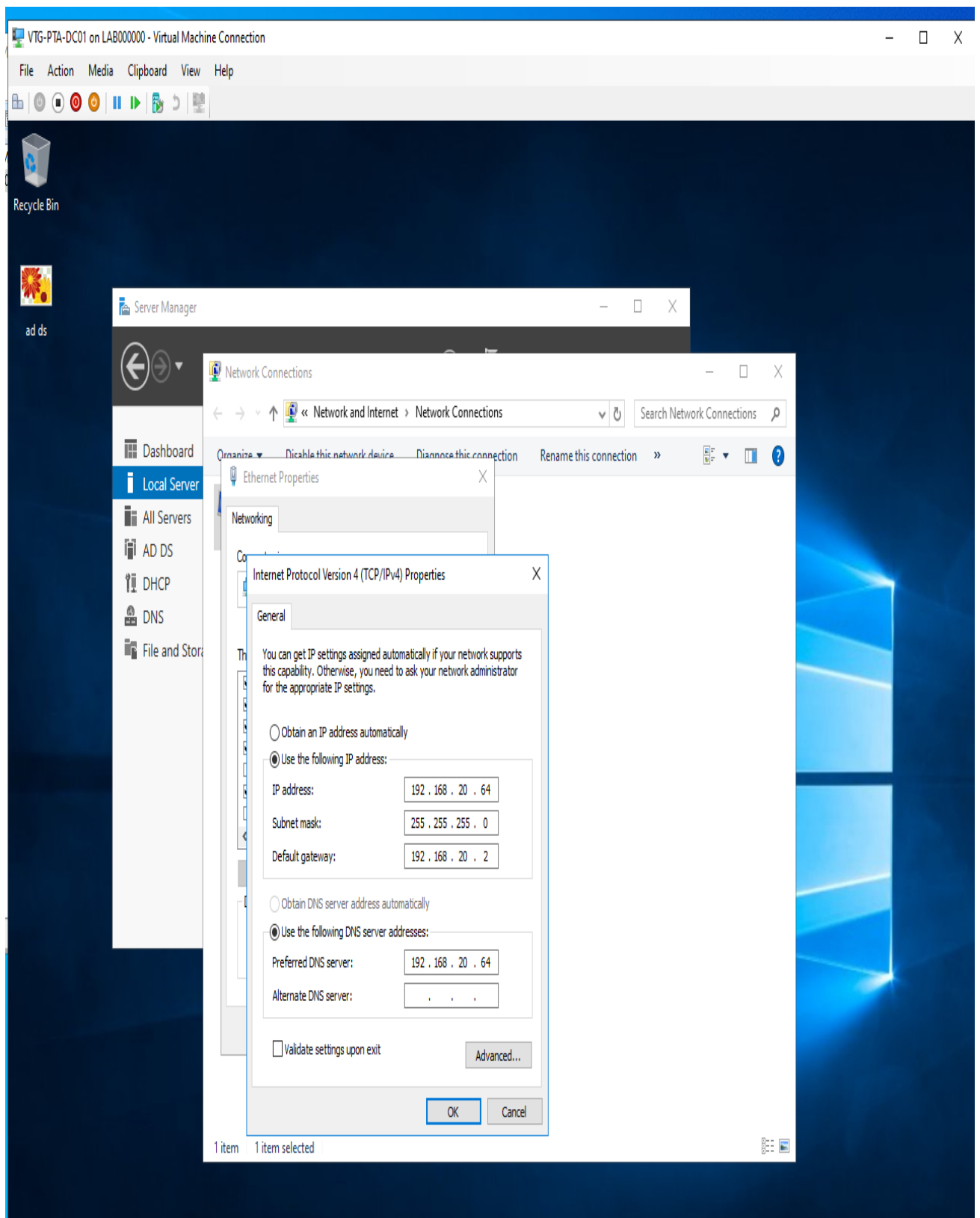
Remove

i SR-IOV can only be configured when the virtual switch is created. An external virtual switch with SR-IOV enabled cannot be converted to an internal or private switch.

OK

Cancel

Apply



Activity 2 Install and configure Active Directory on both Servers using the domain name VTG.com with the Pretoria server being the parent root domain server and the Johannesburg server being the second writable server in the domain. (No child domains are to be used but replication of Active Directory will take place between the Pretoria and Johannesburg servers)

VTG-PTA-DC01 on LAB000000 - Virtual Machine Connection

File Action Media Clipboard View Help

Server Manager

Add Roles and Features Wizard

DESTINATION SERVER
ST10070150

Installation progress

Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
DHCP Server
DNS Server
Confirmation
Results

View installation progress

Feature installation

Configuration required. Installation succeeded on ST10070150.

Active Directory Domain Services
Additional steps are required to make this machine a domain controller.
[Promote this server to a domain controller](#)

DHCP Server
Launch the DHCP post-install wizard
[Complete DHCP configuration](#)

DNS Server

Group Policy Management

Remote Server Administration Tools
Role Administration Tools
AD DS and AD LDS 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

Server Name	ID	Severity	Source	Log	Date and Time
ST10070150	10020	Warning	Microsoft-Windows-DHCP-Server	System	5/16/2023 11:09:15 AM
ST10070150	1036	Error	Microsoft-Windows-DHCP-Server	System	5/16/2023 11:09:10 AM
ST10070150	1035	Error	Microsoft-Windows-DHCP-Server	System	5/16/2023 11:09:10 AM

File Action Media Clipboard View Help



Recycle Bin



ad ds

Active Directory Sites and Services

File Action View Help

Active Directory Sites and Services

Name	Type	Description	Cost	Replication Interval
DEFAULTPSI...	Site Link		100	180
JHB-PTA SD...	Site Link		100	180

Active Directory Sites and Services

- Sites
 - Inter-Site Transports
 - IP
 - SMTP
 - Subnets
 - 192.168.10.0/26
 - 192.168.20.0/26
 - Default-First-Site-Name
 - JOHANNESBURG
 - Servers
 - VTG-JHB-DC01
 - PRETORIA
 - Servers
 - VTG-PTA-DC01

Activity 3

Configure a DHCP solution based on the IP address plan designed in Part 1

Task 1.

The screenshot displays the DHCP console within a virtual machine connection window titled "VTG-PTA-DC01 on LAB000000 - Virtual Machine Connection". The console has a menu bar (File, Action, Media, Clipboard, View, Help) and a toolbar with various icons. Below the menu bar, there is a sub-menu bar (File, Action, View, Help) and another toolbar. The main area is divided into three panes:

- Left Pane (Tree View):** Shows the DHCP hierarchy. The "Address Pool" is selected under the "Scope [192.168.20.0] VTG-PTA-DC01".
- Middle Pane (Table):** Displays the configuration of the selected Address Pool. The table has columns for "Start IP Address", "End IP Address", and "Description".
- Right Pane (Actions):** Shows the available actions for the selected object, including "Address Pool" and "More Actions".

Start IP Address	End IP Address	Description
192.168.20.1	192.168.20.246	Address range for distribution
192.168.20.1	192.168.20.63	IP Addresses excluded from distribution
192.168.20.64	192.168.20.95	IP Addresses excluded from distribution
192.168.20.96	192.168.20.111	IP Addresses excluded from distribution
192.168.20.112	192.168.20.119	IP Addresses excluded from distribution
192.168.20.120	192.168.20.123	IP Addresses excluded from distribution
192.168.20.124	192.168.20.127	IP Addresses excluded from distribution
192.168.20.128	192.168.20.246	IP Addresses excluded from distribution

Activity 4

Install and configure a Windows 10 Client to join the VTG domain on the Pretoria site using a DHCP issued address from the Server subnet.

