

Module 6: Assignment- 1

The screenshot displays the Microsoft Azure portal interface for managing virtual networks. The top navigation bar shows the user's profile and the current time. The main content area is divided into two sections, each showing the configuration of a virtual network.

Virtual network: v-net-westus

Name	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table
default	10.0.0.0/24	-	250	-	-	-

Virtual network: v-net-southindia

Name	IPv4	IPv6	Available IPs	Delegated to	Security group	Route table
default	11.0.0.0/24	-	251	-	-	-

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The screenshot displays the Microsoft Azure portal interface. On the left, the 'Virtual machines' section is expanded, showing a list of VMs with 'vm-south' selected. The main pane shows the 'Network settings' for 'vm-south'. The 'Network interface / IP configuration' section shows 'vm-south545 (primary) / ipconfig1 (primary)'. The 'Essentials' section lists various settings: Network interface (vm-south545), Virtual network / subnet (v-net-southindia / default), Public IP address (20.44.61.177), Private IP address (10.0.0.4), Admin security rules (0), Load balancers (0), Application security groups (0), Network security group (vm-south-nsg), Accelerated networking (Disabled), and Effective security rules (0). The 'Rules' section shows a network security group 'vm-south-nsg' with four inbound port rules:

Priority	Name	Port	Protocol	Source	Destination	Action
300	SSH	22	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

The screenshot displays the Microsoft Azure portal interface. On the left, the 'Virtual machines' section is expanded, showing a list of VMs with 'vm-westus' selected. The main pane shows the 'Network settings' for 'vm-westus'. The 'Network interface / IP configuration' section shows 'vm-westus983 (primary) / ipconfig1 (primary)'. The 'Essentials' section lists various settings: Network interface (vm-westus983), Virtual network / subnet (v-net-westus / default), Public IP address (13.93.176.36), Private IP address (10.0.0.5), Admin security rules (0), Load balancers (0), Application security groups (0), Network security group (vmwestusnsg334), Accelerated networking (Disabled), and Effective security rules (0). The 'Rules' section shows a network security group 'vmwestusnsg334' with four inbound port rules:

Priority	Name	Port	Protocol	Source	Destination	Action
300	SSH	22	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

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The image displays two screenshots of the Microsoft Azure portal, illustrating the configuration of virtual network (VNet) peering between two VNETs: v-net-southindia and v-net-westus.

Top Screenshot: v-net-southindia | Peerings

- Virtual networks:** v-net-southindia
- Peering status:** all
- Table:**

Name	Peering status	Peer	Gateway transit
southindiatovestus	Connected	v-net-westus	Disabled

Bottom Screenshot: v-net-westus | Peerings

- Virtual networks:** v-net-westus
- Peering status:** all
- Table:**

Name	Peering status	Peer	Gateway transit
southindiatovestus	Connected	v-net-southindia	Disabled

Both screenshots show the 'Peering' tab selected in the left-hand navigation pane. The 'Peering status' is 'Connected' for both directions, and 'Gateway transit' is 'Disabled' for both.

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```
azureuser@vm-westus: ~
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Mon Mar 25 10:21:38 2024 from 171.76.80.67
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

azureuser@vm-westus:~$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:0d:3a:5a:99:50 brd ff:ff:ff:ff:ff:ff
    inet 10.0.0.4/24 brd 10.0.0.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::20d:3aff:fe5a:9950/64 scope link
        valid_lft forever preferred_lft forever
azureuser@vm-westus:~$ ping 11.0.0.4
PING 11.0.0.4 (11.0.0.4) 56(84) bytes of data.
64 bytes from 11.0.0.4: icmp_seq=1 ttl=64 time=201 ms
64 bytes from 11.0.0.4: icmp_seq=2 ttl=64 time=201 ms
64 bytes from 11.0.0.4: icmp_seq=3 ttl=64 time=202 ms
64 bytes from 11.0.0.4: icmp_seq=4 ttl=64 time=201 ms
64 bytes from 11.0.0.4: icmp_seq=5 ttl=64 time=202 ms
64 bytes from 11.0.0.4: icmp_seq=6 ttl=64 time=201 ms
64 bytes from 11.0.0.4: icmp_seq=7 ttl=64 time=201 ms
64 bytes from 11.0.0.4: icmp_seq=8 ttl=64 time=202 ms
64 bytes from 11.0.0.4: icmp_seq=9 ttl=64 time=201 ms
64 bytes from 11.0.0.4: icmp_seq=10 ttl=64 time=201 ms
64 bytes from 11.0.0.4: icmp_seq=11 ttl=64 time=202 ms
64 bytes from 11.0.0.4: icmp_seq=12 ttl=64 time=201 ms

azureuser@vm-south: ~
0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Last login: Mon Mar 25 10:22:06 2024 from 171.76.80.67
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

azureuser@vm-south:~$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:0d:3a:0a:72:2c brd ff:ff:ff:ff:ff:ff
    inet 10.0.0.5/24 brd 10.0.0.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::20d:3aff:fe0a:722c/64 scope link
        valid_lft forever preferred_lft forever
azureuser@vm-south:~$ ping 10.0.0.5
PING 10.0.0.5 (10.0.0.5) 56(84) bytes of data.
64 bytes from 10.0.0.5: icmp_seq=1 ttl=64 time=205 ms
64 bytes from 10.0.0.5: icmp_seq=2 ttl=64 time=201 ms
64 bytes from 10.0.0.5: icmp_seq=3 ttl=64 time=201 ms
64 bytes from 10.0.0.5: icmp_seq=4 ttl=64 time=201 ms
64 bytes from 10.0.0.5: icmp_seq=5 ttl=64 time=202 ms
64 bytes from 10.0.0.5: icmp_seq=6 ttl=64 time=201 ms
64 bytes from 10.0.0.5: icmp_seq=7 ttl=64 time=201 ms
64 bytes from 10.0.0.5: icmp_seq=8 ttl=64 time=202 ms
64 bytes from 10.0.0.5: icmp_seq=9 ttl=64 time=202 ms
64 bytes from 10.0.0.5: icmp_seq=10 ttl=64 time=202 ms
64 bytes from 10.0.0.5: icmp_seq=11 ttl=64 time=202 ms
```