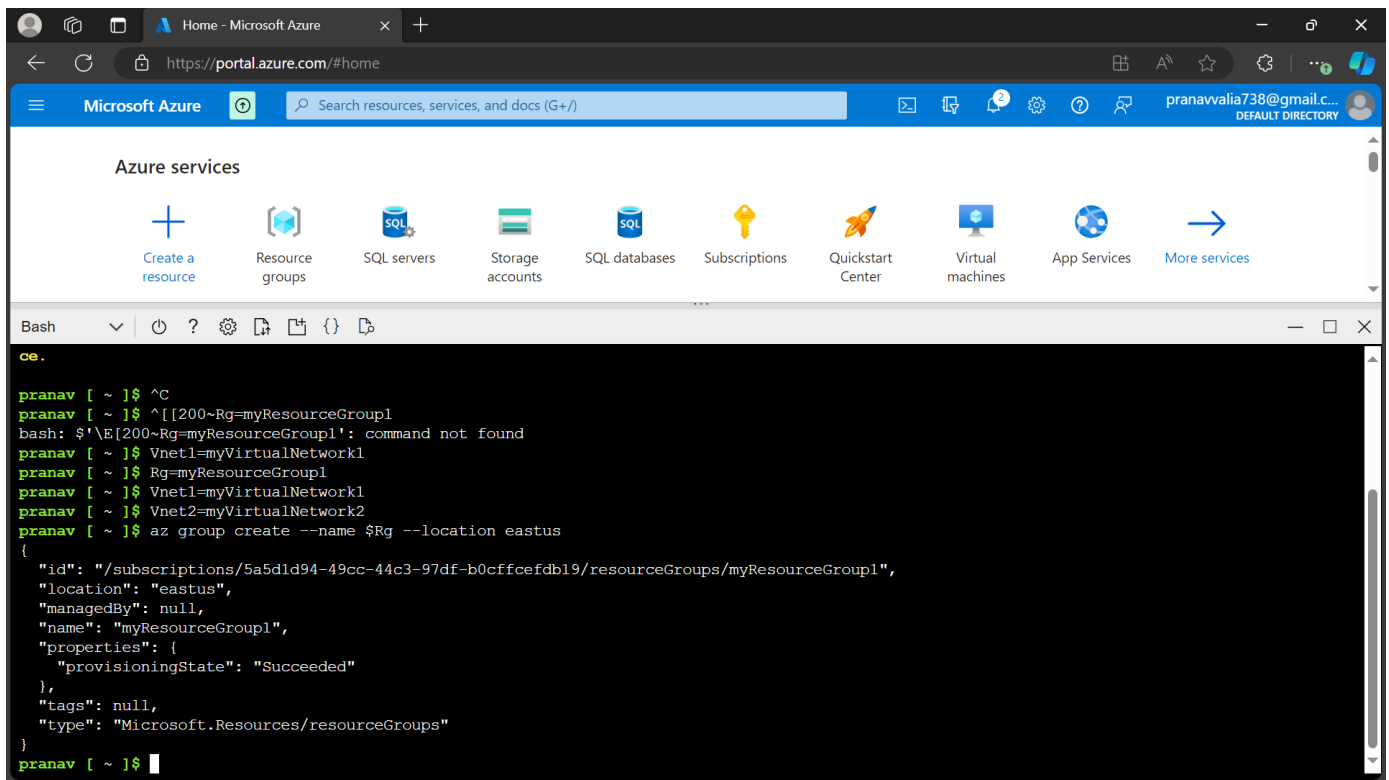


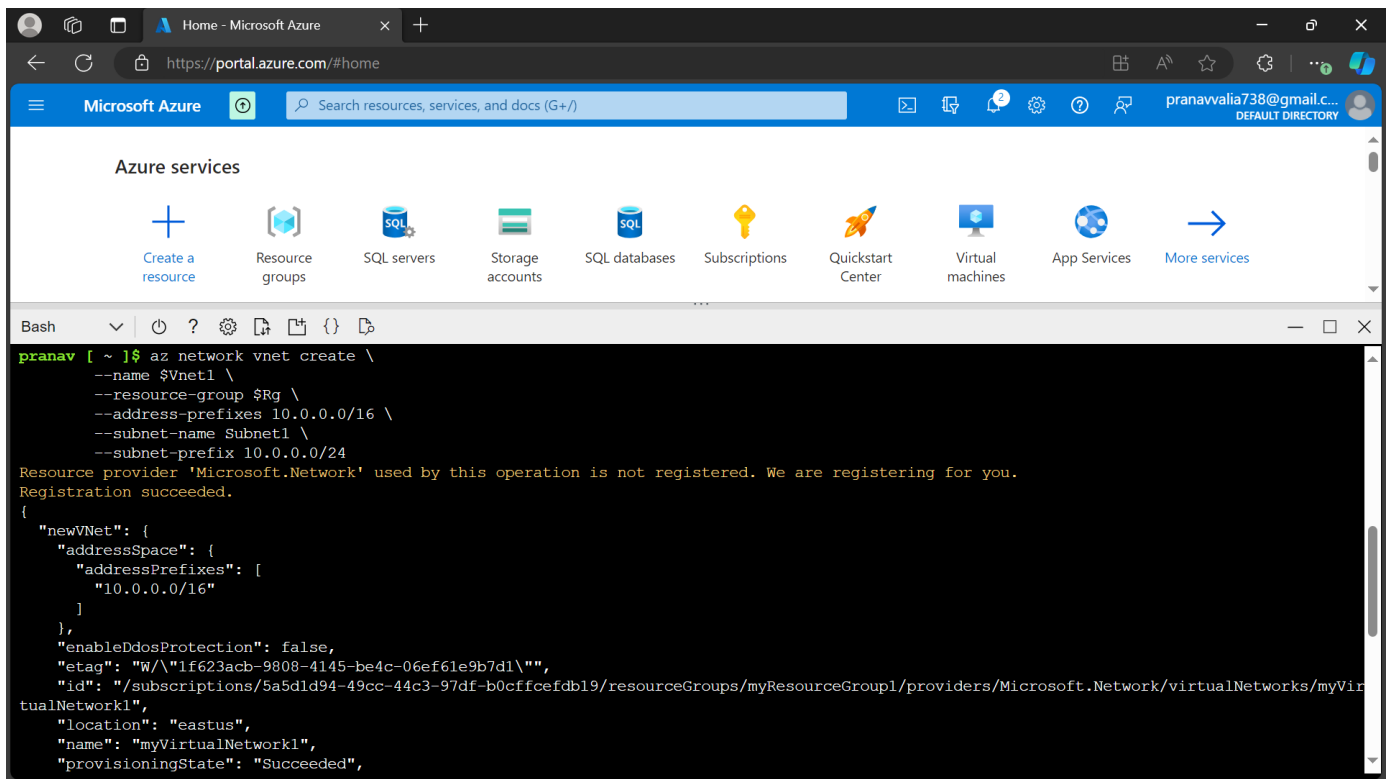
# AZURE Task

## VNet Peering



The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Azure logo, a search bar, and the user's email address. Below the navigation bar, there is a section for "Azure services" with icons for various services. The main content area displays a terminal window with the following commands and output:

```
pranav [ ~ ]$ ^C
pranav [ ~ ]$ ^[[200~Rg=myResourceGroup1
bash: $'\E[200~Rg=myResourceGroup1': command not found
pranav [ ~ ]$ Vnet1=myVirtualNetwork1
pranav [ ~ ]$ Rg=myResourceGroup1
pranav [ ~ ]$ Vnet1=myVirtualNetwork1
pranav [ ~ ]$ Vnet2=myVirtualNetwork2
pranav [ ~ ]$ az group create --name $Rg --location eastus
{
  "id": "/subscriptions/5a5dld94-49cc-44c3-97df-b0cffe9db19/resourceGroups/myResourceGroup1",
  "location": "eastus",
  "managedBy": null,
  "name": "myResourceGroup1",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
pranav [ ~ ]$
```



The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Azure logo, a search bar, and the user's email address. Below the navigation bar, there is a section for "Azure services" with icons for various services. The main content area displays a terminal window with the following commands and output:

```
pranav [ ~ ]$ az network vnet create \
--name $Vnet1 \
--resource-group $Rg \
--address-prefixes 10.0.0.0/16 \
--subnet-name Subnet1 \
--subnet-prefix 10.0.0.0/24
Resource provider 'Microsoft.Network' used by this operation is not registered. We are registering for you.
Registration succeeded.
{
  "newVNet": {
    "addressSpace": {
      "addressPrefixes": [
        "10.0.0.0/16"
      ]
    },
    "enableDdosProtection": false,
    "etag": "W/\"1f623acb-9808-4145-be4c-06ef61e9b7d1\"",
    "id": "/subscriptions/5a5dld94-49cc-44c3-97df-b0cffe9db19/resourceGroups/myResourceGroup1/providers/Microsoft.Network/virtualNetworks/myVirtualNetwork1",
    "location": "eastus",
    "name": "myVirtualNetwork1",
    "provisioningState": "Succeeded",

```

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### Azure services

- Create a resource
- Resource groups
- SQL servers
- Storage accounts
- SQL databases
- Subscriptions
- Quickstart Center
- Virtual machines
- App Services
- More services

Bash

```
pranav [ ~ ]$ az network vnet create \
--name $Vnet2 \
--resource-group $Rg \
--address-prefixes 10.1.0.0/16 \
--subnet-name Subnet1 \
--subnet-prefix 10.1.0.0/24

{
  "newVNet": {
    "addressSpace": {
      "addressPrefixes": [
        "10.1.0.0/16"
      ]
    },
    "enableDdosProtection": false,
    "etag": "W/\"d8ea4eb8-f7e7-4364-9181-7282d65cda06\"",
    "id": "/subscriptions/5a5d1d94-49cc-44c3-97df-b0cffe9fdb19/resourceGroups/myResourceGroup1/providers/Microsoft.Network/virtualNetworks/myVirtualNetwork2",
    "location": "eastus",
    "name": "myVirtualNetwork2",
    "provisioningState": "Succeeded",
    "resourceGroup": "myResourceGroup1",
    "resourceGuid": "8c013839-f441-49f5-930f-5830cfa86db8",
```

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### Azure services

- Create a resource
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- More services

Bash

```
pranav [ ~ ]$ vNet1Id=$(az network vnet show \
--resource-group $Rg \
--name $Vnet1 \
--query id --out tsv)
pranav [ ~ ]$ vNet2Id=$(az network vnet show \
--resource-group $Rg \
--name $Vnet2 \
--query id \
--out tsv)
pranav [ ~ ]$ az network vnet peering create \
--name myVirtualNetwork1-myVirtualNetwork2 \
--resource-group $Rg \
--vnet-name $Vnet1 \
--remote-vnet $vNet2Id \
--allow-vnet-access

{
  "allowForwardedTraffic": false,
  "allowGatewayTransit": false,
  "allowVirtualNetworkAccess": true,
  "doNotVerifyRemoteGateways": false,
  "etag": "W/\"689064b1-5672-4e8c-9f8c-8270479ff270\"",
  "id": "/subscriptions/5a5d1d94-49cc-44c3-97df-b0cffe9fdb19/resourceGroups/myResourceGroup1/providers/Microsoft.Network/virtualNetworks/myVirtualNetwork1-peering-to-myVirtualNetwork2",
  "location": "eastus",
  "name": "myVirtualNetwork1-myVirtualNetwork2",
  "provisioningState": "Succeeded",
  "resourceGroup": "myResourceGroup1",
  "resourceGuid": "8c013839-f441-49f5-930f-5830cfa86db8",
  "type": "Microsoft.Network/virtualNetworks/peerings",
  "vnetName": "myVirtualNetwork1",
  "remoteVnetName": "myVirtualNetwork2",
  "allowVnetAccess": true,
  "allowGatewayTransit": false,
  "allowForwardedTraffic": false,
  "doNotVerifyRemoteGateways": false
}
```

```
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Bash
pranav [ ~ ]$ az vm create --resource-group $Rg --name myVm1 --image Ubuntu2204 --public-ip-sku Standard --vnet-name $Vnet1 --subnet Subnet1 --ssh-key-value /home/pranav/.ssh/id_rsa.pub
{
  "fqdns": "",
  "id": "/subscriptions/5a5d1d94-49cc-44c3-97df-b0cffe9fdb19/resourceGroups/myResourceGroup1/providers/Microsoft.Compute/virtualMachines/myVm1",
  "location": "eastus",
  "macAddress": "00-22-48-29-8A-B9",
  "powerState": "VM running",
  "privateIpAddress": "10.0.0.4",
  "publicIpAddress": "172.178.67.133",
  "resourceGroup": "myResourceGroup1",
  "zones": ""
}
pranav [ ~ ]$ az vm create --resource-group $Rg --name myVm2 --image Ubuntu2204 --public-ip-sku Standard --vnet-name $Vnet2 --subnet Subnet1 --ssh-key-value /home/pranav/.ssh/id_rsa.pub
{
  "fqdns": "",
  "id": "/subscriptions/5a5d1d94-49cc-44c3-97df-b0cffe9fdb19/resourceGroups/myResourceGroup1/providers/Microsoft.Compute/virtualMachines/myVm2",
  "location": "eastus",
  "macAddress": "00-0D-3A-98-61-C8",
```

```
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Bash
-N <nodeinfo opt> use icmp6 node info query, try <help> as argument

For more details see ping(8).
pranav@myVm2:~$ ping 10.0.0.4 -c 4
PING 10.0.0.4 (10.0.0.4) 56(84) bytes of data.
64 bytes from 10.0.0.4: icmp_seq=1 ttl=64 time=2.57 ms
64 bytes from 10.0.0.4: icmp_seq=2 ttl=64 time=2.61 ms
64 bytes from 10.0.0.4: icmp_seq=3 ttl=64 time=1.72 ms
64 bytes from 10.0.0.4: icmp_seq=4 ttl=64 time=1.91 ms

--- 10.0.0.4 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3006ms
rtt min/avg/max/mdev = 1.722/2.202/2.613/0.393 ms
pranav@myVm2:~$ ping 172.178.67.133 -c 4
PING 172.178.67.133 (172.178.67.133) 56(84) bytes of data.

--- 172.178.67.133 ping statistics ---
4 packets transmitted, 0 received, 100% packet loss, time 3052ms

pranav@myVm2:~$
```