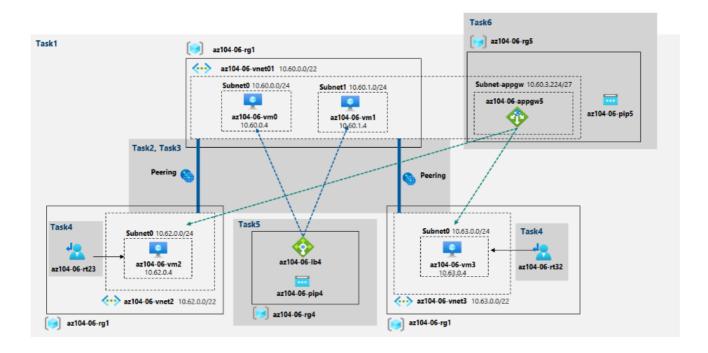
Implement Traffic Management Student

In this lab,

- Task 1: Provision the lab environment
- Task 2: Configure the hub and spoke network topology
- Task 3: Test transitivity of virtual network peering
- Task 4: Configure routing in the hub and spoke topology
- Task 5: Implement Azure Load Balancer
- Task 6: Implement Azure Application Gateway



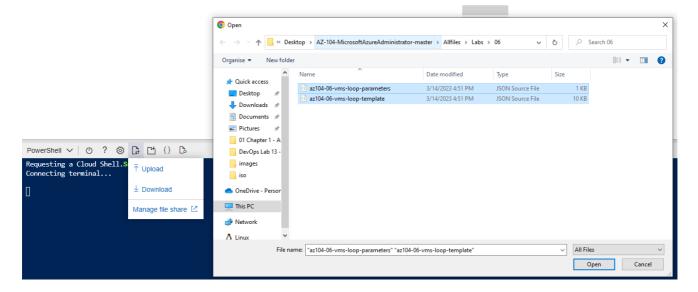
Task 1: Provision the lab environment



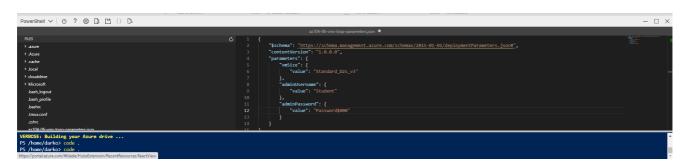
Login to portal.azure. Open powershell and upload two files

File 1: \Allfiles\Labs\06\az104-06-vms-loop-template.json

File 2: \Allfiles\Labs\06\az104-06-vms-loop-template.json



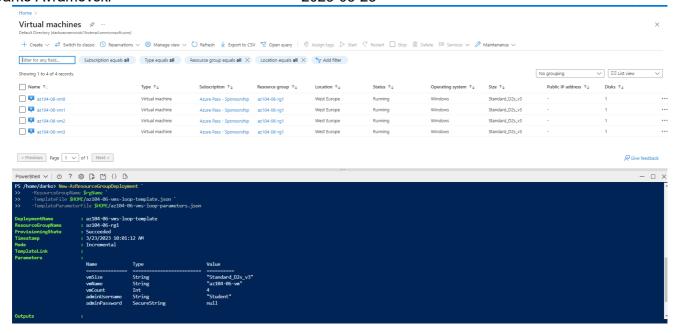
After we upload the scripts, we have to edit the login credentials.



From the powershell run this command to create three virtual networks and four Azure VMs from files we uploaded.

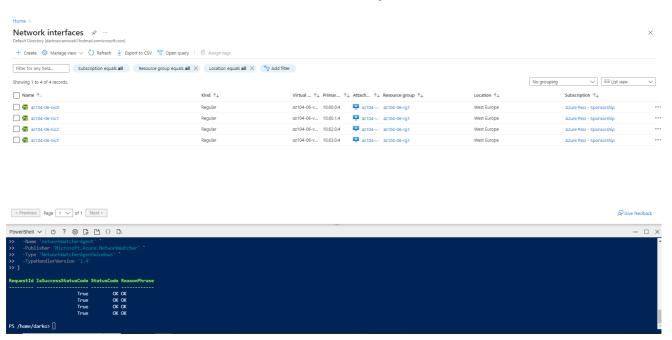
New-AzResourceGroupDeployment `
-ResourceGroupName \$rgName `
-TemplateFile \$HOME/az104-06-vms-loop-template.json `
-TemplateParameterFile \$HOME/az104-06-vms-loop-parameters.json

Success!!! We created new VM



Now we have to create Network Watcher extension on the Azure, for the vm we created in previous step. Run this command in powershell

Success!!! We created new network watche for every VM

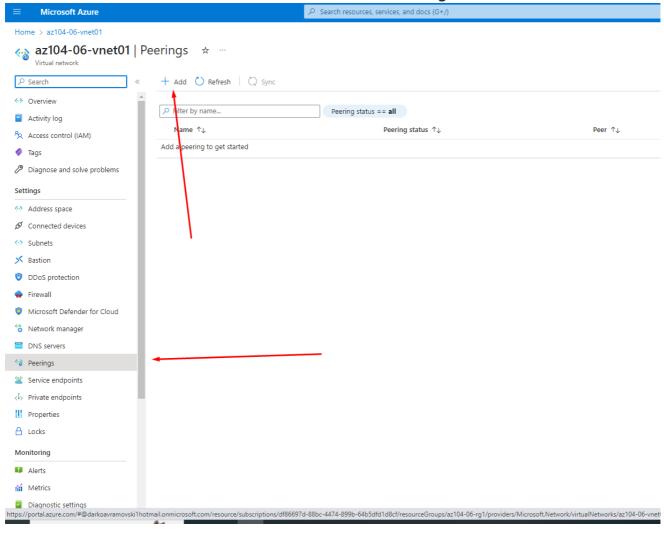


Task 2: Configure the hub and spoke network topology

From the search bar type Virtual networks. Select az104-06-vnet2 / Properties from left side menu . and copy Resource ID also for az104-06-vnet3.



Select az104-06-vnet01 and from left side menu select Peerings than click Add new



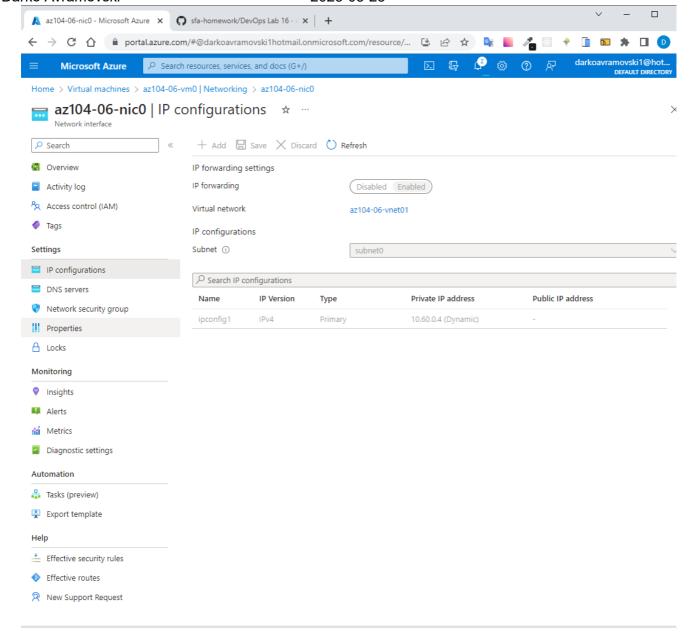
Home > az104-06-vnet01 | Peerings > Add peering az104-06-vnet01 This virtual network Peering link name * az104-06-vnet01_to_az104-06-vnet2 Traffic to remote virtual network (i) Allow (default) Block all traffic to the remote virtual network Traffic forwarded from remote virtual network (i) Allow (default) Block traffic that originates from outside the remote virtual network Virtual network gateway or Route Server (1) Use this virtual network's gateway or Route Server Use the remote virtual network's gateway or Route Server None (default) Remote virtual network Peering link name * az104-06-vnet3_to_az104-06-vnet01 Virtual network deployment model (i) Resource manager Classic 🗸 I know my resource ID 🛈 /subscriptions/df86697d-88bc-4474-899b-64b5dfd1d8cf/resourceGroups/az104-06-rg1/providers/Microsoft.Network/vir... \sim 1.00 / 1 Traffic to remote virtual network (i) Allow (default) Block all traffic to the remote virtual network Traffic forwarded from remote virtual network (i)

Repeat this proces for az104-06-vnet3

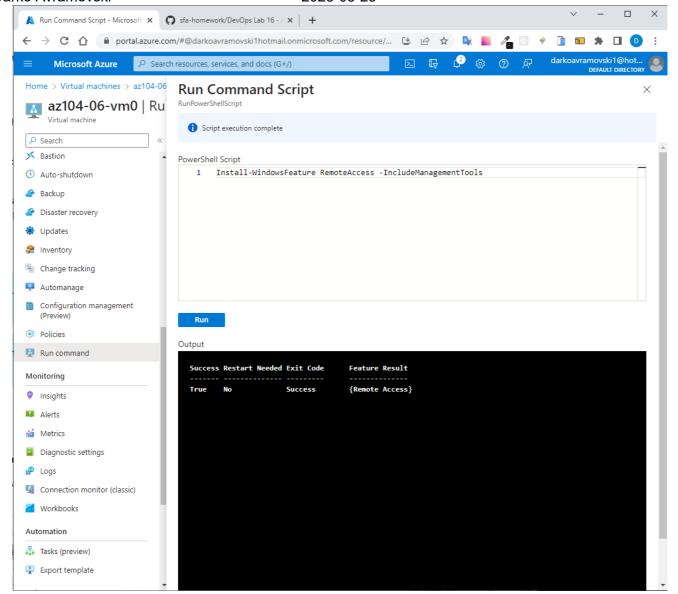
Add

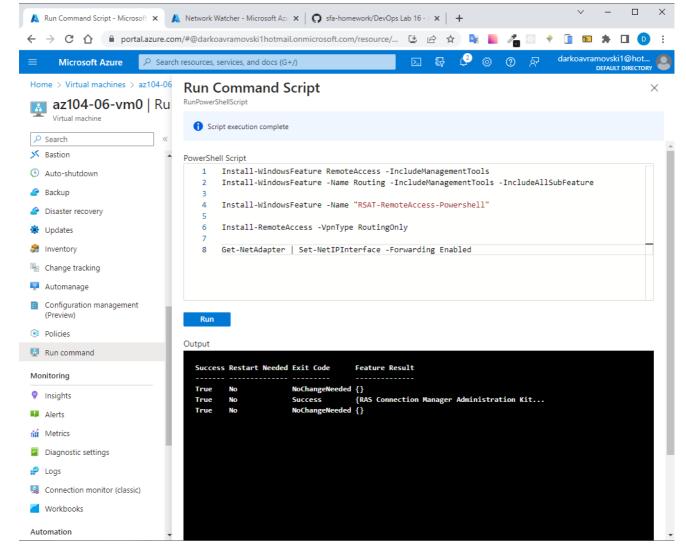
Task 4: Configure routing in the hub and spoke topology

We have to enable **IP forwading** on VM **az104-06-vm0** we have to go in Virtual Machines/az104-06-vm0/Network Interface: az104-06-nic0 enable **IP forwading** and click Save

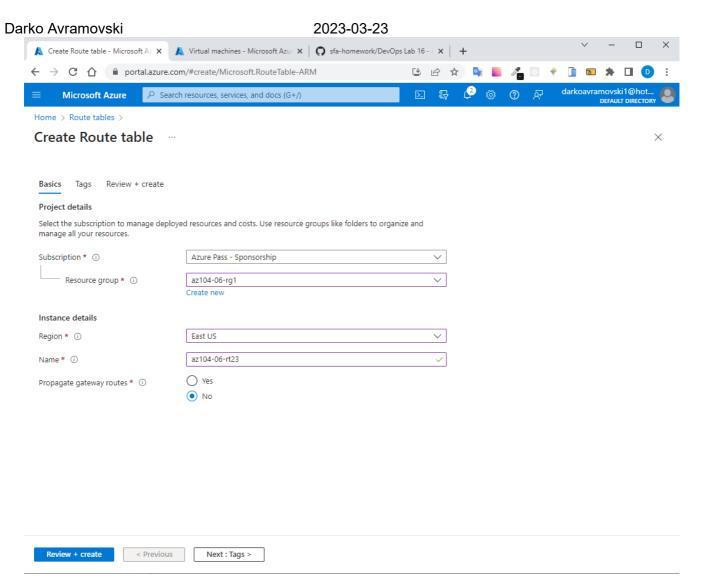


Navigate back to Virtual Machines and select az104-06-vm0 and click Overview and Run command and select RunPowerShellScript.

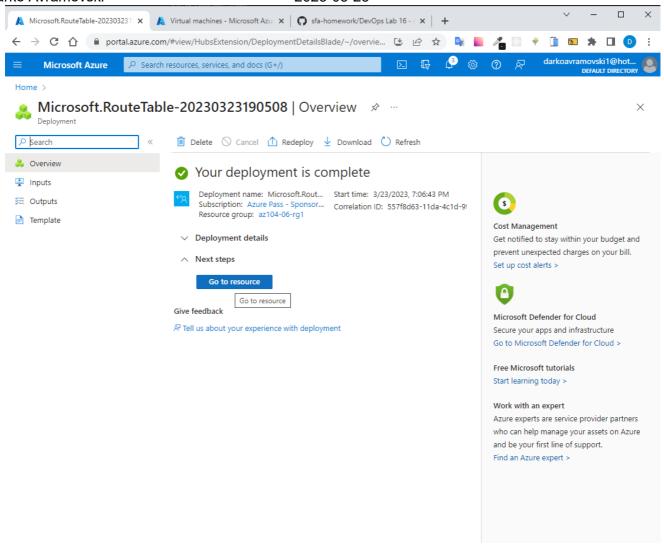




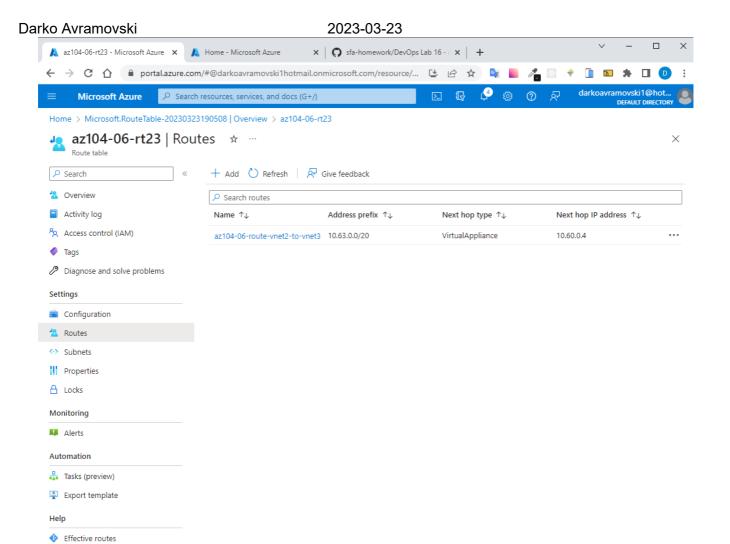
Now we have to create route tables



Click got to resources

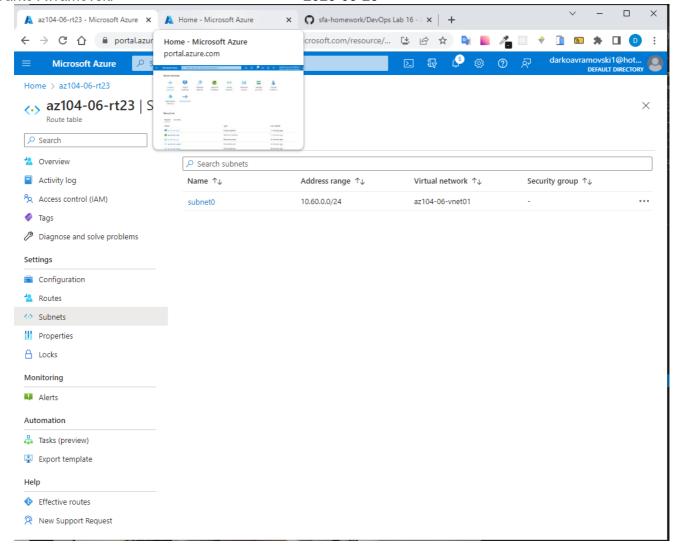


Now we have to add Routes

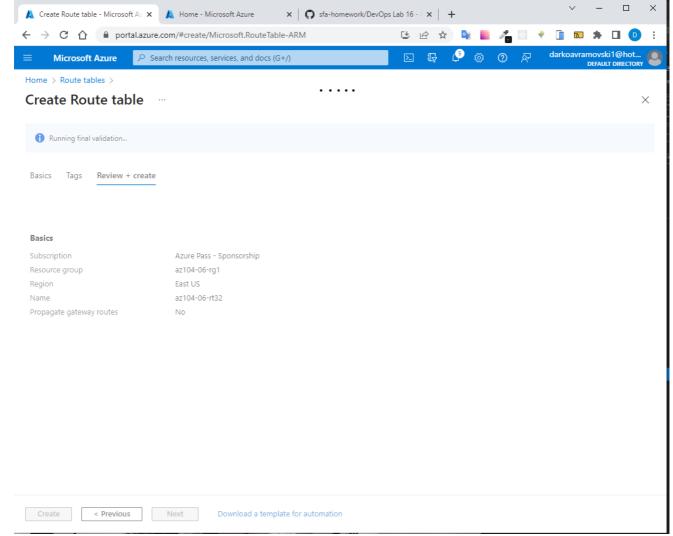


Create subnet

Request New Support Request

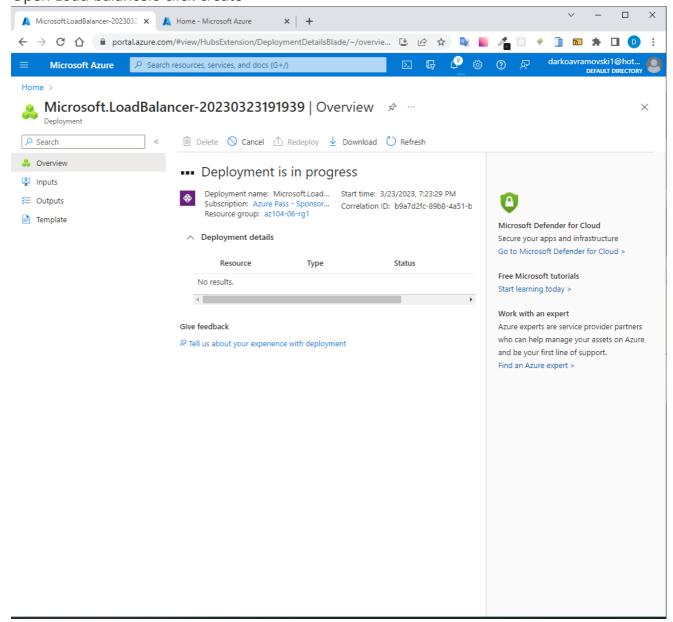


Navigate back to Route tables blade and click + Create.



Task 5: Implement Azure Load Balancer

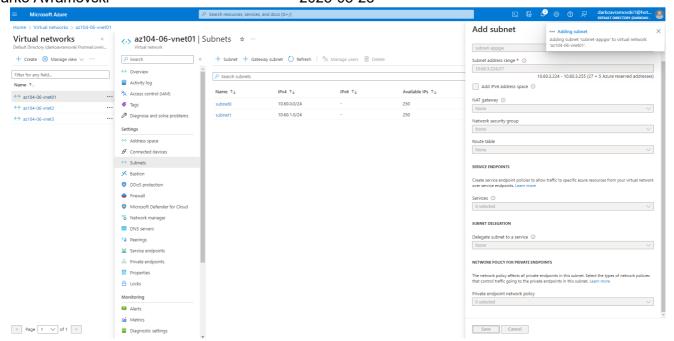
Open Load balancers click create



Task 6: Implement Azure Application Gateway

In the Azure portal, search and select Virtual networks. On the Virtual networks blade, in the list of virtual networks, click az104-06-vnet01.

2023-03-23



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