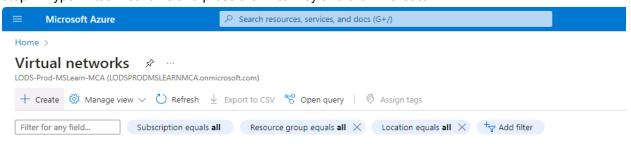
# Lab 2: Network Security Groups and Application Security Groups

You have been asked to implement your organization's virtual networking infrastructure and test to ensure it is working correctly. In particular:

- The organization has two groups of servers: Web Servers and Management Servers.
- Each group of servers should be in its own Application Security Group.
- You should be able to RDP into the Management Servers, but not the Web Servers.
- The Web Servers should display the IIS web page when accessed from the internet.
- Network security group rules should be used to control network access.

#### Exercise 1: Create the virtual networking infrastructure

Step 1: Type Virtual networks and press the Enter key and click + Create.



Step 2: Fill in the details

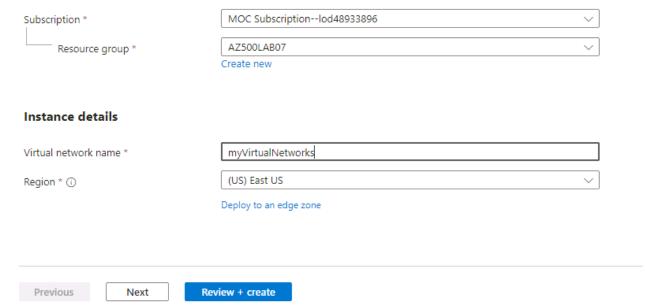
Basics Security IP addresses Tags Review + create

networks. Vivet is similar to a traditional network that you'd operate in your own data center, but prings with it additional benefits of Azure's infrastructure such as scale, availability, and isolation.

Learn more. 🗗

## **Project details**

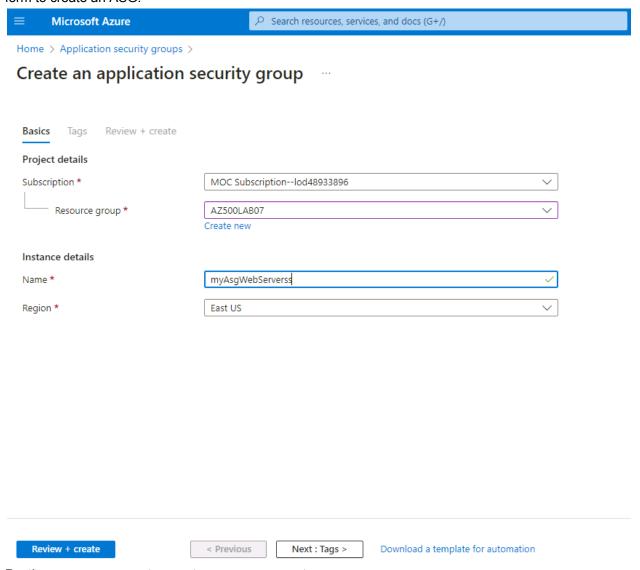
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.



On the IP addresses tab of the Create virtual network blade, set the IPv4 address space to 10.0.0.0/16.

# **Exercise 2: Create application security groups**

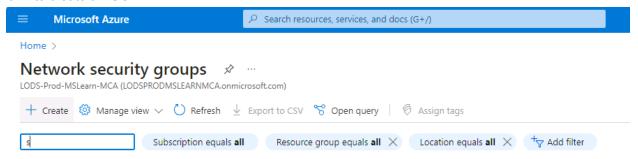
Step 3: Type Application Security Groups and press the Enter key and click + Create and fill the following form to create an ASG.

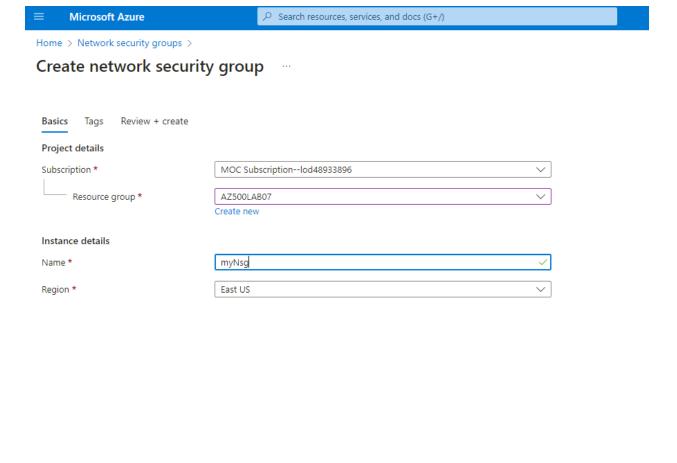


Do the same process to create a management server.

## Exercise 3: Create a network security group and associate the NSG to the subnet

Step 4: Type Network Security Groups and press the Enter key and click + Create and fill the following form to create a NSG.





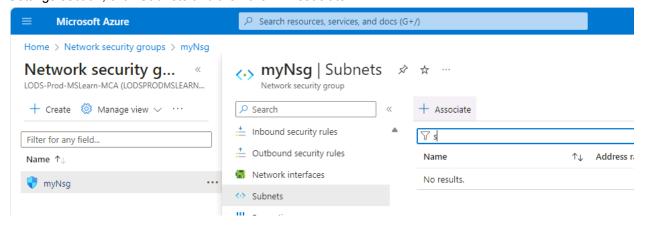
Step 5: Associate the NSG with the Virtual network created in Step 1. On the myNsg blade, in the Settings section, click Subnets and then click + Associate.

Next : Tags >

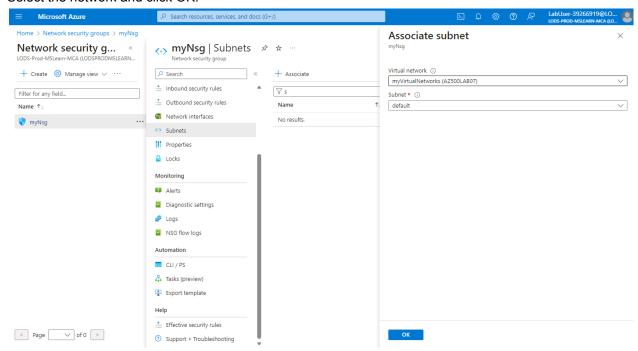
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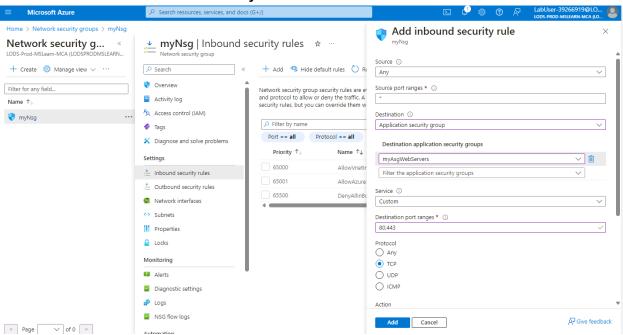
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## Select the network and click OK.

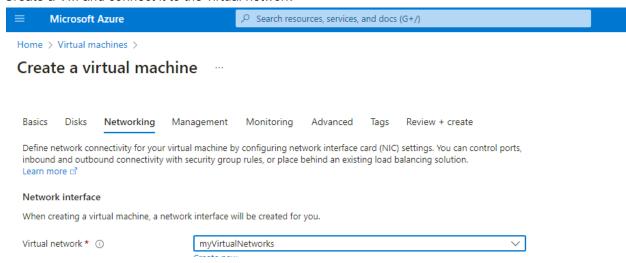


Exercise 4: Create inbound NSG security rules to all traffic to web servers and RDP to the servers.

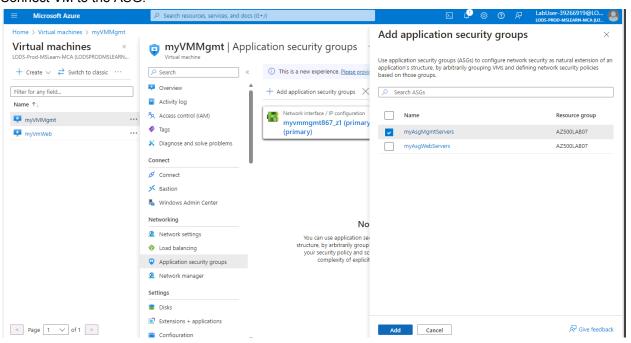


Follow the same steps to create RDPconnection for management servers.

## Create a VM and connect it to the virtual network

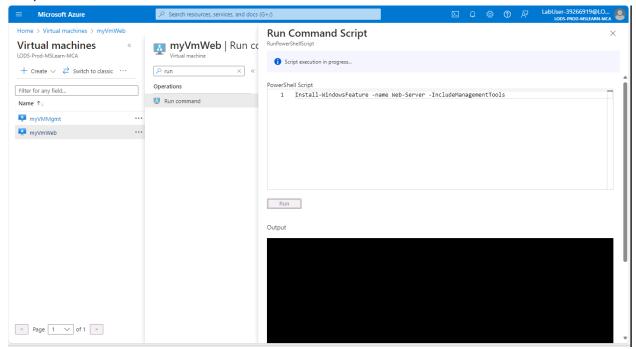


# Do the same for other servers. Connect VM to the ASG.



Do the same for other servers.

## Setup the web service



Copy the public IP address and run on the browser.

