1. Create a Virtual network (VNETA) with available 1024 addresses

* Create a Virtual Network named VN-1 and giving the IPV4 as 10.0.0.0/22 (1024 Addresses)
* Since the question was asked to find make 1024(2 power 10) spaces available, we need to subtract 10 from 32 bits. That is 22 bits.

1. Create two subnets with address space SUBNETA (512 addresses) and SUBNETB (16 addresses)

* Now we need to divide the 1024 spaces into subnetA and subnetB
* Subnet-A 10.0.0.0/23 (11 + 5 Azure spaces)
* Subnet-B 10.0.2.0/28 (507 + 5 Azure spaces)

1. Create a NSG1 with inbound security rule to allow ports 80,443 on TCP from Internet to SubnetA and associate NSG to subnetA

* Create a NSG-1 and add ports HTTP and HTTPS in custom section.
* Then go to subnetA and assign NSG-1 to the subnetA , so that all VM’s that comes under subnetA has all of the Inbound rules.

1. Create a NSG2 with inbound security rule to allow port 8080 on TCP.

* Create a NSG-2 and add port 8080 on it.

1. Provision a linux virtual machine (VM1) with nginx installed using virtual machine extensions in SubnetB and associate NSG1 to it.

* Create a VM by selecting the subnetB and NSG-1 will be associated in it and also in the script section add these following syntaxes in the script section.

sudo apt-get update

sudo apt install nginx

1. Create 2 windows Virtual machines with inbound access for ports 80 and 3389. Enable Internet Information services on both VMs