# Allocate Static IPs to all VM's Creating a Network Security Group Creating Public IP Associating/ De-associating Public IP with virtual machine Creation of Network Interface

When you create a virtual machine (VM), it's automatically assigned a private IP address from a range that you specify. This IP address is based on the subnet in which the VM is deployed, and the VM keeps this address until the VM is deleted. Azure dynamically assigns the next available private IP address from the subnet you create a VM in. If you want to assign a specific IP address in this subnet for your VM, use a static IP address.

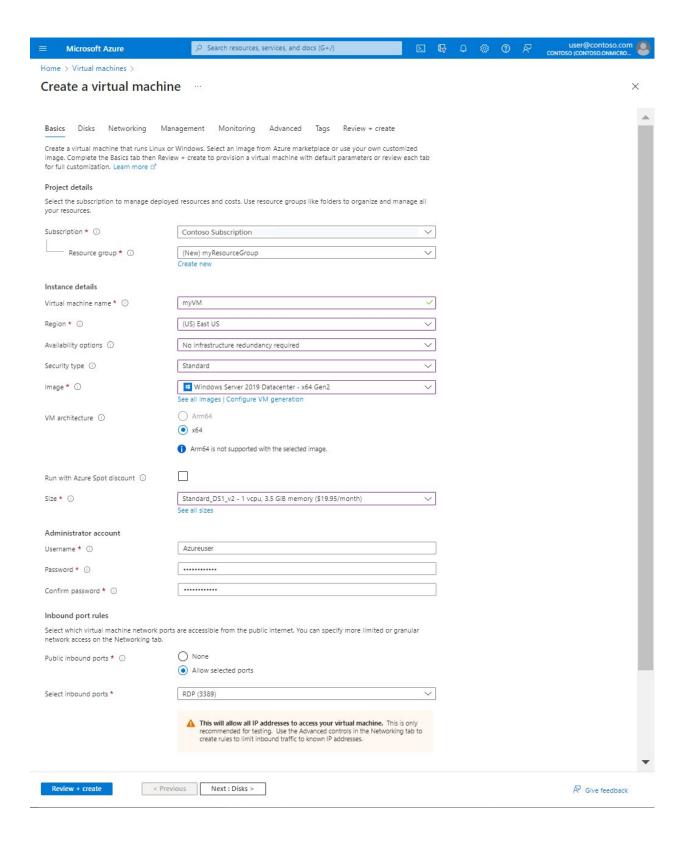
### **Prerequisites**

• An Azure account with an active subscription. You can create an account for free.

## Create a VM

Use the following steps to create a VM, and its virtual network and subnet:

- 1. Sign in to the Azure portal.
- 2. In the portal, search for and select **Virtual machines**.
- 3. Select Create > Azure virtual machine.
- 4. On the **Basics** tab of the **Create a virtual machine** screen, enter or select the following values:
  - **Subscription**: Keep the default or select a different subscription.
  - **Resource group**: Select **Create new**, and then name the group *myResourceGroup*.
  - **Virtual machine name**: Enter *myVM*.
  - Region: Select (US) East US.
  - Availability options: Select No infrastructure redundancy required.
  - Image: Select Windows Server 2019 Datacenter x64 Gen2.
  - **Size**: Accept the default, or drop down and select a size.
  - **Username**, **Password**, and **Confirm password**: Enter an admin username and password for the VM.
  - Public inbound ports: Select Allow selected ports.
  - Select inbound ports: Select RDP (3389).



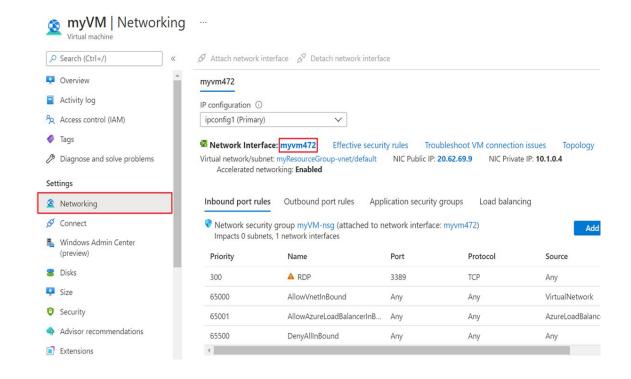
- 5. Select the **Networking** tab at the top of the page.
  - 6. On the **Networking** page, enter or select the following values:
- Virtual network: Accept the default network name.
- Subnet: Select default if not already selected.

- Public IP: Accept the default public IP configuration.
- Public inbound ports: Select Allow selected ports.
- Select inbound ports: Select RDP (3389).
- 7. Select **Review + create**. Review the settings, and then select **Create**.

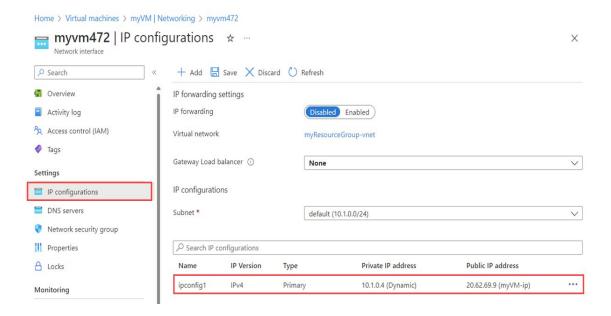
# Change private IP address to static

In this procedure, you change the private IP address from **dynamic** to **static** for the VM you created previously:

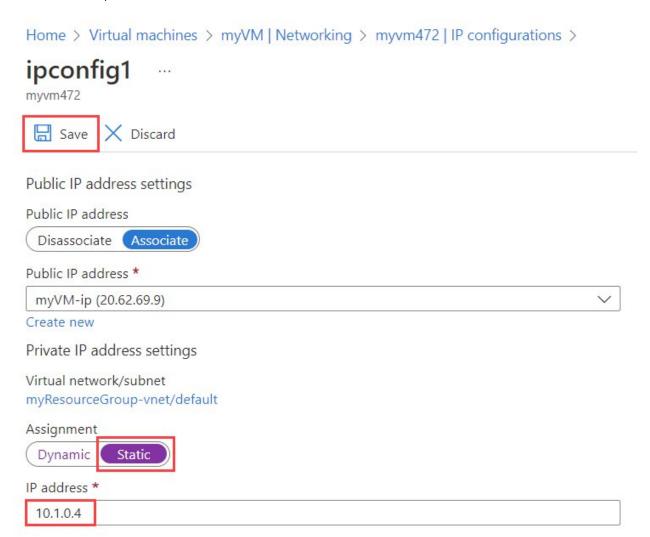
- 1. In the portal, search for and select **Virtual machines**.
- 2. In **Virtual machines**, select **myVM** from the list.
- 3. On the **myVM** page, under **Settings**, select **Networking**.
- 4. In **Networking**, select the name of the network interface next to **Network interface**. In this example, the name of the NIC is **myvm472**.



- 5. On the **Network interface** page, under **Settings**, select **IP configurations**.
- 6. In **IP configurations**, select **ipconfig1** in the list.



Under **Assignment**, select **Static**. Change the private **IP address** if you want a different one, and then select **Save**.



# **Clean up resources**

When you're finished, delete the resource group and all of the resources it contains:

- 1. In the portal, search for and select **myResourceGroup**.
- 2. From the **myResourceGroup** screen, select **Delete resource group**.
- 3. Enter *myResourceGroup* for **Enter resource group name to confirm deletion**, and then select **Delete**.