**Setting Up and Configuring VMs with Static IPs, NSGs, and Public IPs in Azure**

**Objective:**

To configure Azure VMs with static private IPs, Network Security Groups (NSGs), and Public IPs, and to share the setup with team members.

**Prerequisites:**

* Azure subscription
* Basic knowledge of Azure Portal and Azure Networking

**Steps:**

1. **Allocate Static IPs to VMs**
   * Navigate to the Azure Portal and select your VM.
   * Go to Networking -> Network Interface -> IP configurations.
   * Change the IP assignment from Dynamic to Static and specify the IP address, e.g., 10.0.1.10.
2. **Create a Network Security Group (NSG)**
   * Go to Create a resource -> Network Security Group.
   * Fill in the details and create the NSG.
   * Define inbound and outbound security rules as needed.
3. **Create a Public IP**
   * Go to Create a resource -> Public IP address.
   * Fill in the details, select Static for IP address assignment, and create the Public IP.
4. **Associate Public IP with VM**
   * Navigate to the VM -> Networking -> Network Interface -> IP configurations.
   * Associate the previously created Public IP with the VM.
5. **Create a Network Interface**
   * Go to Create a resource -> Network Interface.
   * Fill in the details, select the subnet 10.0.1.0/24, assign a static IP (e.g., 10.0.1.10), and link the NSG.

**Validation:**

* Ping the VMs from each other to ensure connectivity.
* Use tools like nslookup, ping, or tracert to verify public IP resolution and connectivity.

**Export Configuration:**

* Export ARM templates from the resource group for reproducibility.
* Use Azure CLI commands to script the deployment.