

Here I writing the Templates solutions just follow the process:

### 1. Create a resource group

```
az group create --name myinfra-rg --location centralindia
--verbose
```

### 2. Create a virtual network with two subnets

```
{
  "$schema": "https://schema
"description": "description"
    },
    "defaultValue": "10.0.0.0/16"
  },
  "subnetNames": {
    "type": "array",
    "metadata":
{.management.azure.com/schemas/2019-04-01/deploymentTempl
ate.json#",
    "contentVersion": "1.0.0.0",
    "parameters": {
      "networkAddressSpace": {
        "type": "string",
        "metadata": {

          "description": "description"
        },
        "defaultValue": [ "Subnet-1", "Subnet-2" ]
      },
      "subnetAddressSpaces": {
        "type": "array",
        "metadata": {
          "description": "description"
```

```

        },
        "defaultValue": [ "10.0.0.0/24",
"10.0.1.0/24" ]

    }

},
"functions": [],
"variables": {},
"resources": [
    {
        "type": "Microsoft.Network/virtualNetworks",
        "apiVersion": "2023-04-01",
        "name": "madhan-ntier",
        "location": "[resourceGroup().location]",
        "tags": {
            "Enviroment": "Project",
            "CreatedBy": "ARM Template",
            "Project": "FedEx"
        },
        "properties": {
            "addressSpace": {
                "addressPrefixes": [
"parameters('networkAddressSpace')]" ]
            }
        }
    },
    {
        "type":
"Microsoft.Network/virtualNetworks/subnets",
        "apiVersion": "2023-04-01",

```

```

        "name":
"[format('madhan-ntier/{0}',parameters('subnetNames')[copyIndex()])]",
        "properties": {
            "addressPrefix":
"[parameters('subnetAddressSpaces')[copyIndex()]]"
        },

        "copy": {
            "name": "subnetCopy",
            "count":
"[length(parameters('subnetNames'))]"
        },
        "dependsOn": [

"[resourceId('Microsoft.Network/virtualNetworks',
'madhan-ntier')]"
        ]

    }

],
    "outputs": {}
}

```

### 3. Create a network security group and open 80 port from anywhere

```

{
    "$schema":
"https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.json#",
    "contentVersion": "1.0.0.0",
    "parameters": {

```

```
    "networkAddressSpace": {
      "type": "string",
      "metadata": {
        "description": "description"
      },
      "defaultValue": "10.0.0.0/16"
    },
    "subnetNames": {
      "type": "array",
      "metadata": {
        "description": "description"
      },
      "defaultValue": [ "web", "app" ]
    },
    "subnetAddressSpaces": {
      "type": "array",
      "metadata": {
        "description": "description"
      },
      "defaultValue": [ "10.0.0.0/24",
"10.0.1.0/24" ]
    }
  },
  "functions": [],
  "variables": {},
  "resources": [
    {
      "type": "Microsoft.Network/virtualNetworks",
      "apiVersion": "2023-04-01",
      "name": "madhan-ntier",
      "location": "[resourceGroup().location]",
```

```

        "tags": {
            "Enviroment": "Project",
            "CreatedBy": "ARM Template",
            "Project": "FedEx"
        },
        "properties": {
            "addressSpace": {
                "addressPrefixes": [
"[parameters('networkAddressSpace')]" ]
            }
        }
    },
    {
        "type":
"Microsoft.Network/virtualNetworks/subnets",
        "apiVersion": "2023-04-01",
        "name":
"[format('madhan-ntier/{0}',parameters('subnetNames')[copyIndex()])]",
        "properties": {
            "addressPrefix":
"[parameters('subnetAddressSpaces')[copyIndex()]]"
        },
        "copy": {
            "name": "subnetCopy",
            "count":
"[length(parameters('subnetNames'))]"
        },
        "dependsOn": [

```

```

"[resourceId('Microsoft.Network/virtualNetworks',
'madhan-ntier')]"
    ]

    },
    {
        "name": "webnsg",
        "type":
"Microsoft.Network/networkSecurityGroups",
        "apiVersion": "2023-04-01",
        "location": "[resourceGroup().location]",
        "properties": {
            "securityRules": [
                {
                    "name": "openhttp",
                    "properties": {
                        "description": "description",
                        "protocol": "Tcp",
                        "sourcePortRange": "*",
                        "destinationPortRange": "80",
                        "sourceAddressPrefix": "*",
                        "destinationAddressPrefix":
"*",
                        "access": "Allow",
                        "priority": 1000,
                        "direction": "Inbound"
                    }
                }
            ]
        }
    }
}

```

```
],  
  "outputs": {}  
}
```

**For Creating the Entire Infra Just Use this Commands under the PowerShell or Command Prompt**

```
az deployment group create --name myinfra1  
--resource-group myinfra-rg --template-file myinfra.json  
--verbose
```