

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
```