How to Deploy an F-Series Firewall via Azure Templates

https://campus.barracuda.com/doc/53248241/

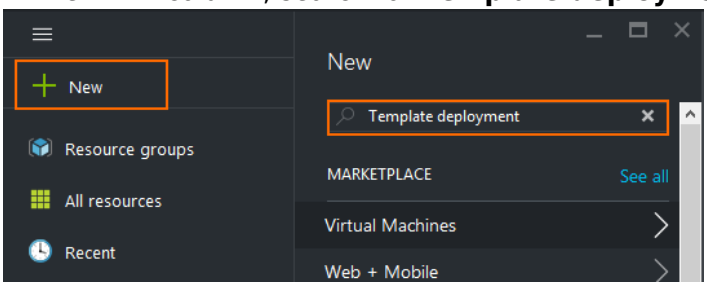
Azure templates are JSON files containing resource descriptions and parameter definitions. These parameters can be passed to the template during deployment either on the command line, through an object, or through a parameter template file. You can deploy templates using Azure Portal, PowerShell, CLI, Rest API, or directly from Visual Studio.

Before You Begin

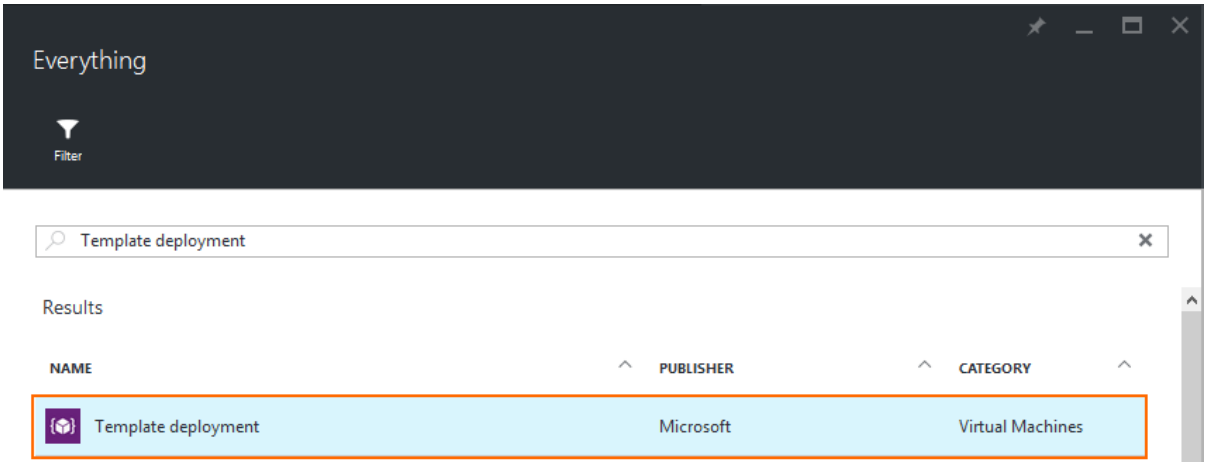
- Create an Azure template either manually or use the **Export Template** feature to export a template for an existing Resource Group.
- (optional) Modify the template to retrieve the PAR file from your Control Center on deployment. For more information, see How to Modify Azure Templates to Retrieve the PAR File from a Control Center.
- (PowerShell only) Install Azure PowerShell 1.3.0 or higher.
- (PowerShell only) Create a template parameter file containing the values of the template parameters.

Deploy an Azure Template via Web Portal

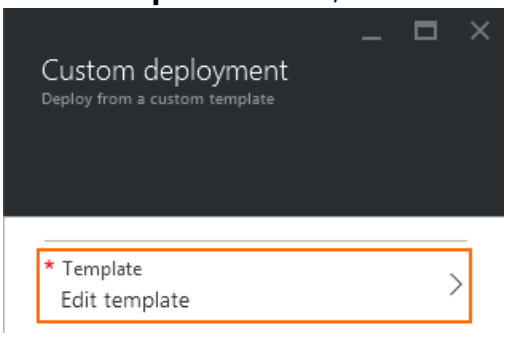
1. Go to https://portal.azure.com.
2. In the upper left corner, click **NEW**.
3. In the **NEW** column, search for **Template deployment**. The **Everything** column opens.



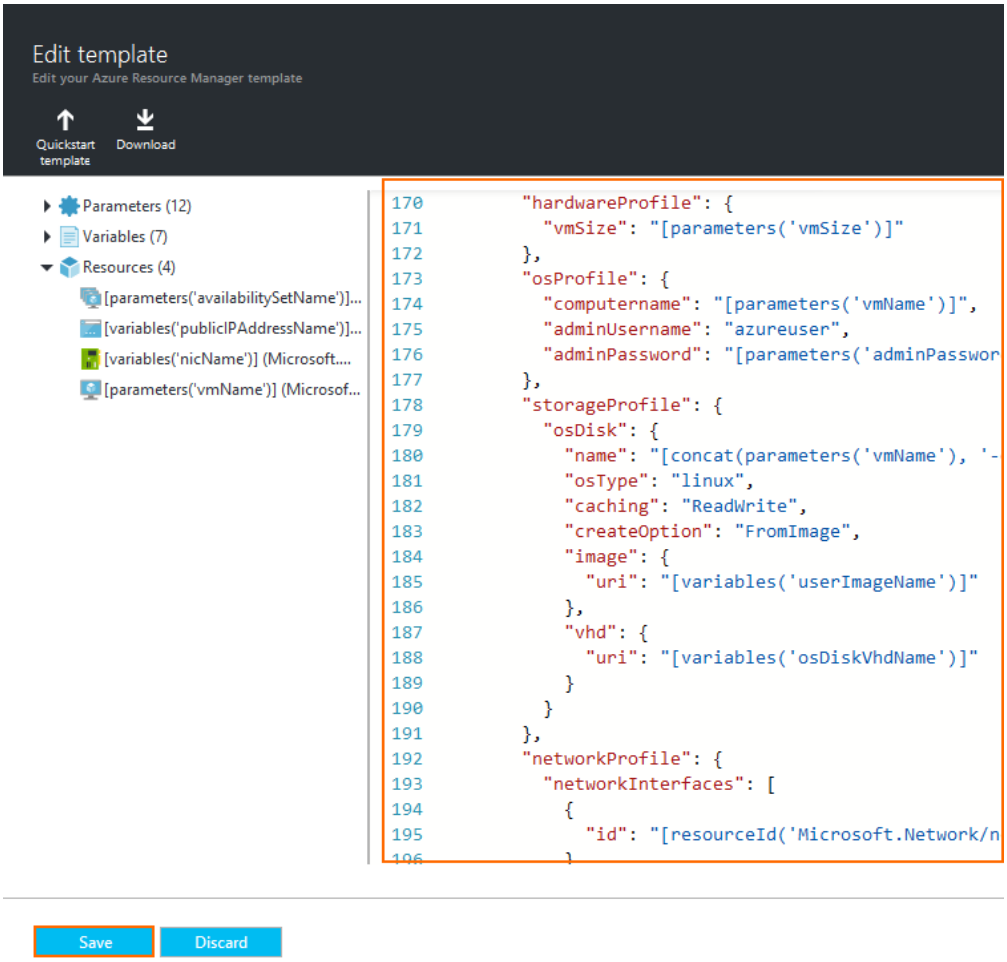
4. Click **Template deployment**.



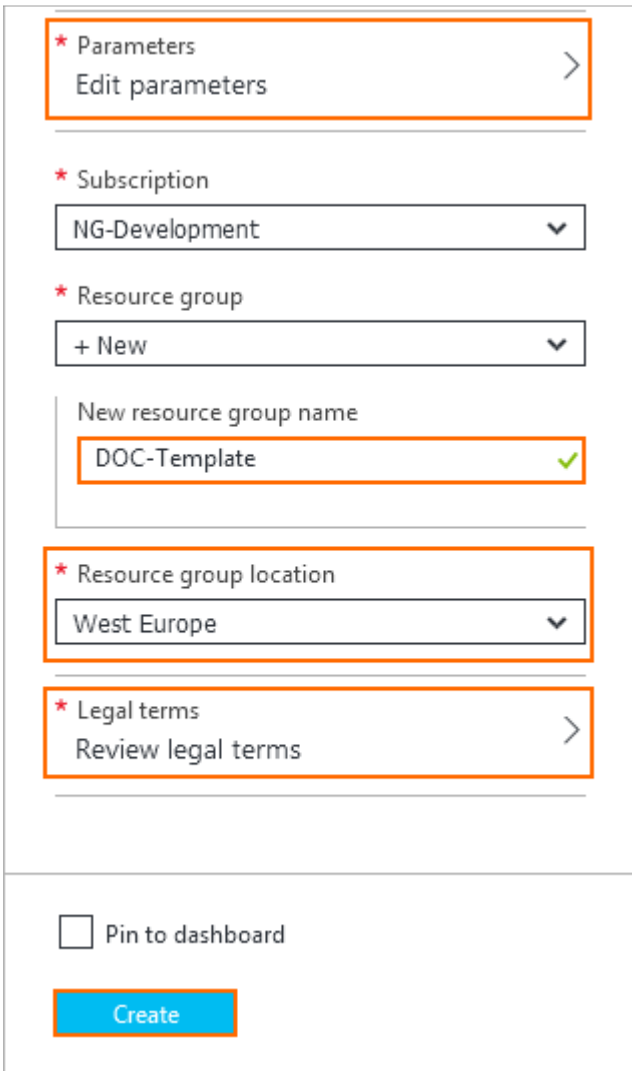
5. In the **Template deployment** column, click **Create**. The **Custom deployment** column opens.
6. In the **Template** section, click **Edit template**.



7. Replace the default template with your custom Azure template.
8. Click **Save**.

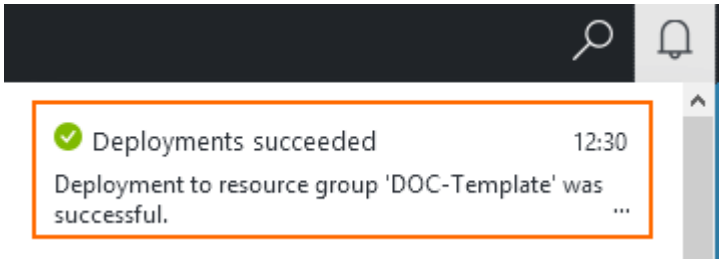


9. In the **Parameters** section, click **Edit parameters**.
10. Enter the **Parameters** required by the template, and click **OK**.
11. Select an **Resource group** or enter the **New resource group name**.
12. Click **Review legal terms**.
13. Click **Purchase**.



14. Click **Create**.

Wait for the deployment to be completed, and then use the public IP address to log in to your NextGen Firewall F or Control Center VM.



Deploy an Azure Template via Azure PowerShell

1. Open Azure PowerShell.

2. Log into your Azure account
   `Login-AzureRmAccount`
3. Create a new Resource Group.
   `New-AzureRmResourceGroup -Name RESOURCE_GROUP_NAME -Location "YOUR_LOCATION"`

```
PS E:\> New-AzureRmResourceGroup -Name DOC-Template -Location westeurope
WARNING: The output object type of this cmdlet will be modified in a future release.


ResourceGroupName : DOC-Template
Location          : westeurope
ProvisioningState : Succeeded
Tags              :
ResourceId        : /subscriptions/bde58b49-9951-466e-90e2-592c0920ce77/resourceGroups/DOC-Template
```

4. Test your template and parameter template JSON file.
   `Test-AzureRmResourceGroupDeployment -ResourceGroupName RESOURCE_GROUP_NAME -TemplateFile YOUR_TEMPLATE_FILE -TemplateParameterFile YOUR_PARAMETER_FILE`

```
PS E:\> Test-AzureRmResourceGroupDeployment -ResourceGroupName DOC-Template -TemplateFile E:\Azure\NextGenFirewallTempla
te\NextGenFirewallAzureTemplate.json -TemplateParameterFile E:\azure\NextGenFirewallTemplate\NextGenFirewallAzureParamet
erFile.json
PS E:\>
```

5. Deploy the template. If the Mode parameter is not set, incremental mode is used.
   `New-AzureRmResourceGroupDeployment -Name DEPLOYMENT_GROUP_NAME -ResourceGroupName RESOURCE_GROUP_NAME -TemplateFile YOUR_TEMPLATE_FILE -TemplateParameterFile YOUR_PARAMETER_FILE`

```
PS E:\>
PS E:\> New-AzureRmResourceGroupDeployment -Name NGF-Deployment -ResourceGroupName DOC-Template -TemplateFile E:\azure\N
extGenFirewallTemplate\NextGenFirewallAzureTemplate.json -TemplateParameterFile E:\Azure\NextGenFirewallTemplate\NextGen
FirewallAzureParameterFile.json
WARNING: The output object type of this cmdlet will be modified in a future release.


DeploymentName          : NGF-Deployment
ResourceGroupName       : DOC-Template
ProvisioningState       : Succeeded
Timestamp               : 28.04.2016 11:53:33
Mode                    : Incremental
TemplateLink            :
Parameters              :
                          Name                  Type                       Value
                          ====================  =========================  ==========
                          userImageVhdName      String                      GWAY-7.0.0-PAYG.vhd
                          userImageResourceGroupName  String                DOC-Storage
                          userImageStorageAccountName  String               docstorage0
                          userImageStorageContainerName  String               vhds
                          vmName                String                     NGF-Template
                          virtualNetworkName    String                        DOC-VNET
                          virtualNetworkResourceGroup  String                     DOC-Networking
                          subNetName            String                     NGF
                          adminPassword         SecureString
                          location              String                     westeurope
                          vmSize                String                     Standard_A1
                          availabilitySetName   String                         AV-Set-Template

Outputs                 :
DeploymentDebugLogLevel :
```

You can now log in to the NextGen Firewall F or Control Center VM you just deployed with your template.

Next Steps

Configure a user defined routing table for the backend VMs to send traffic through the firewall, and enable Azure Cloud Integration to allow the firewall VM to directly connect to the Azure service fabric.

For more information, see How to Configure Azure Route Tables (UDR) using Azure Portal and ARM

and How to Configure Azure Cloud Integration using ARM.

Figures

1. template_web_portal_01.png
2. template_web_portal_02.png
3. template_web_portal_04.png
4. template_web_portal_03.png
5. template_web_portal_05.png
6. template_web_portal_06.png
7. template_ps_01.png
8. template_ps_02.png
9. template_ps_03.png

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