Building VM Images Using Azure Image Builder

Understanding Azure Image Builder



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Overview

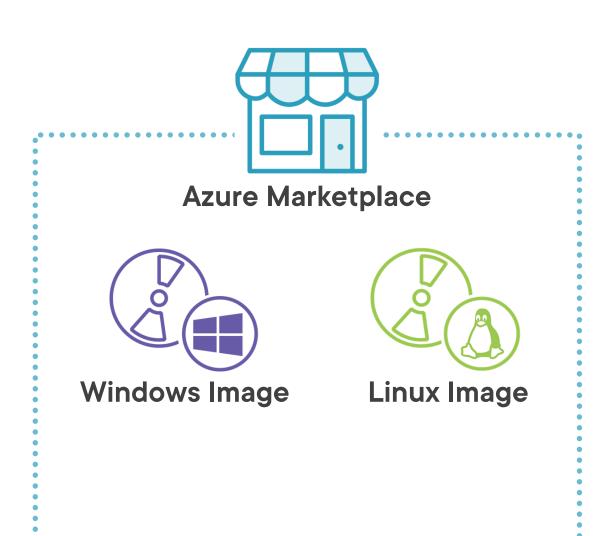


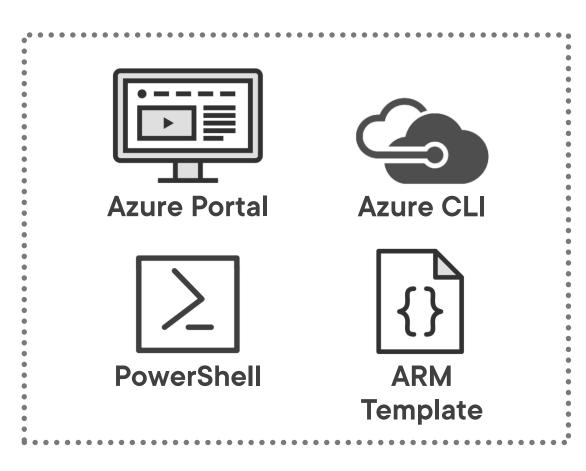
What is Azure Image Builder?



Deploying VMs in Azure

Deployment Tools







Tags

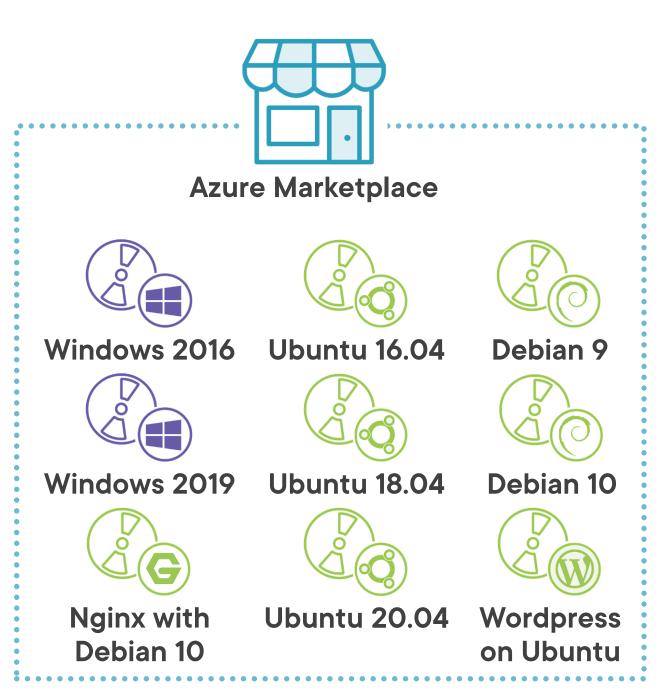


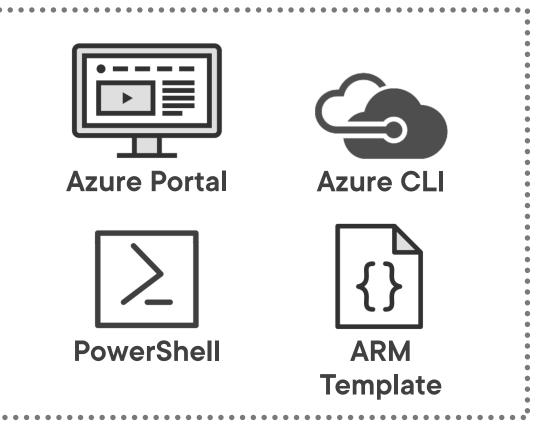


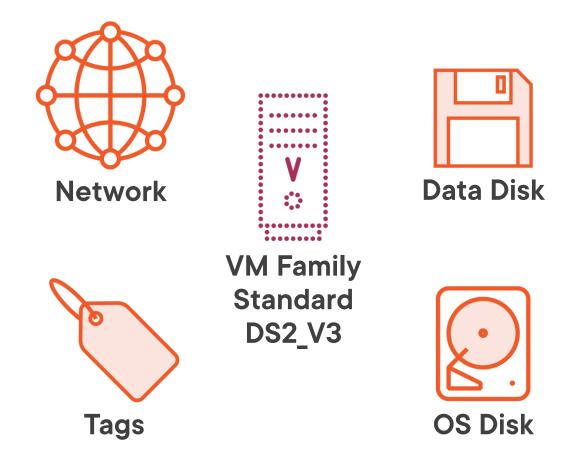


Deploying VMs in Azure

Deployment Tools

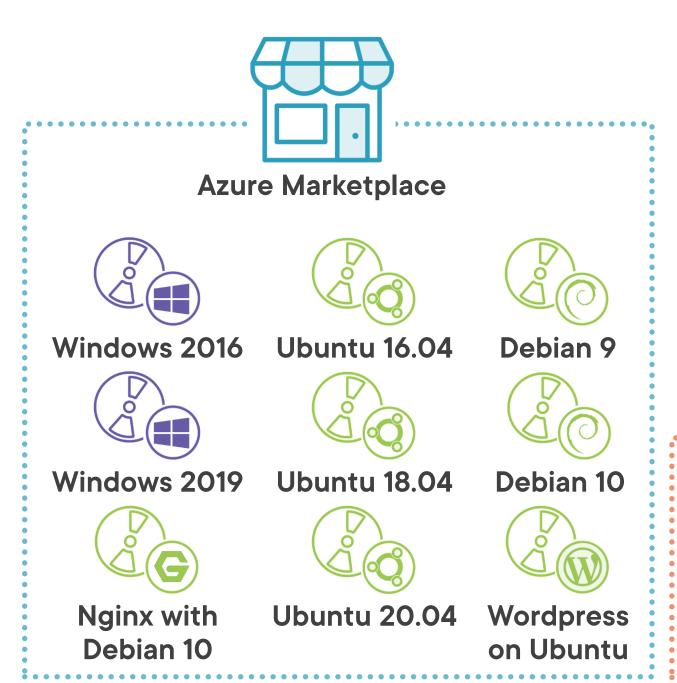








What Is Azure Image Builder?







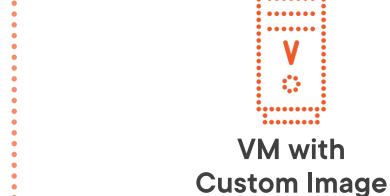
Custom Images





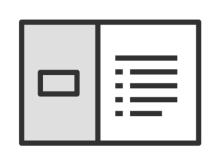


Image x





Use Cases for Azure Image Builder



Demo Environments

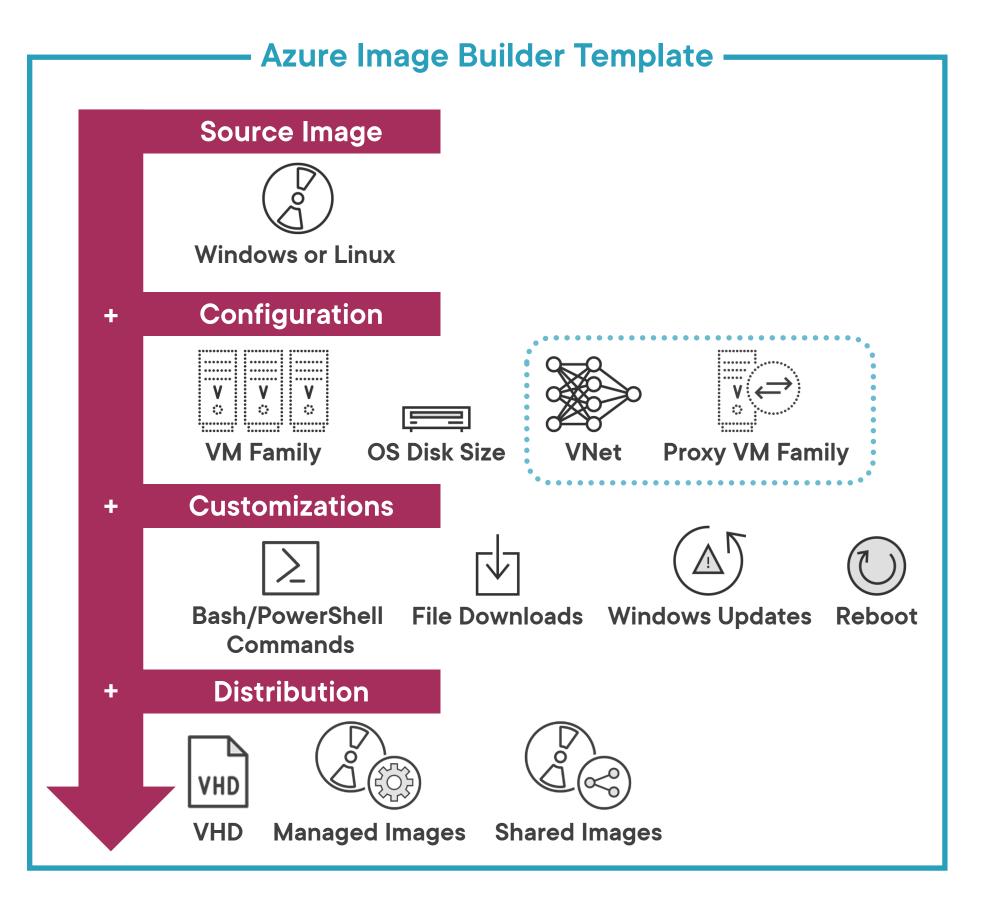


Baseline for DEV/TEST Environments



Deployment at Scale





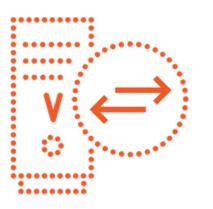
Defaults



VM Family: Standard_D1_v2

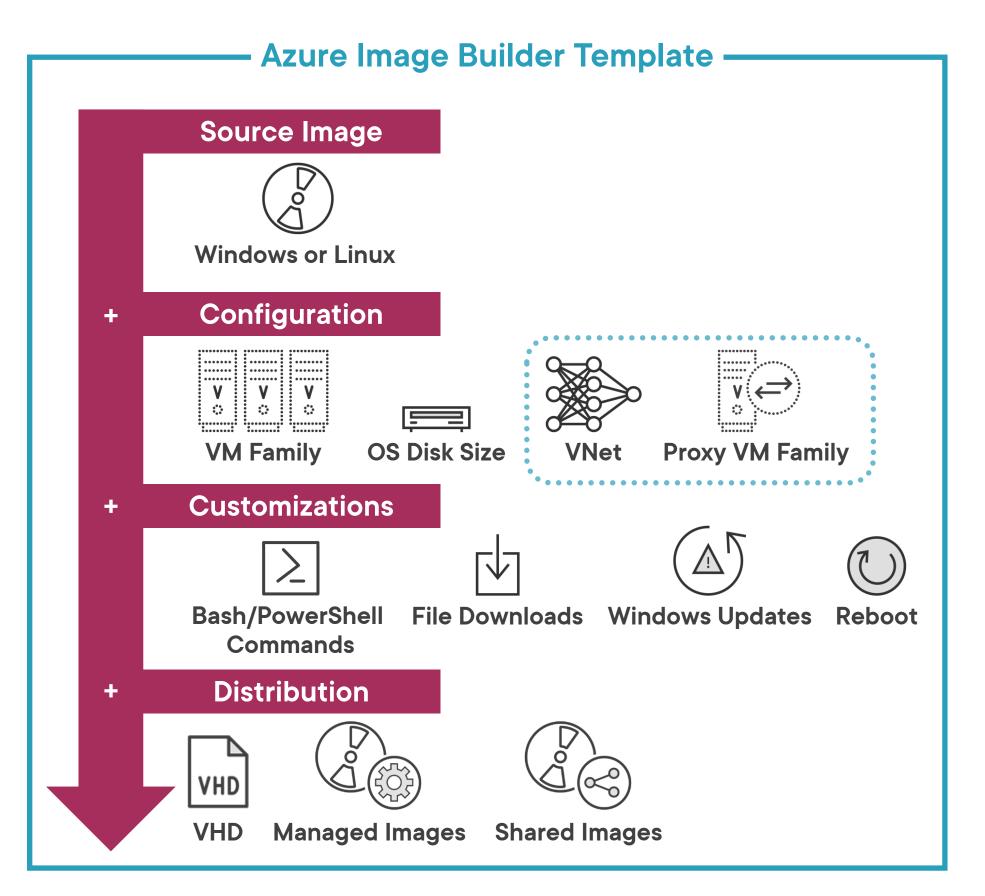


OS Disk Size: Size of image



Proxy VM Family: Standard_A1_v2

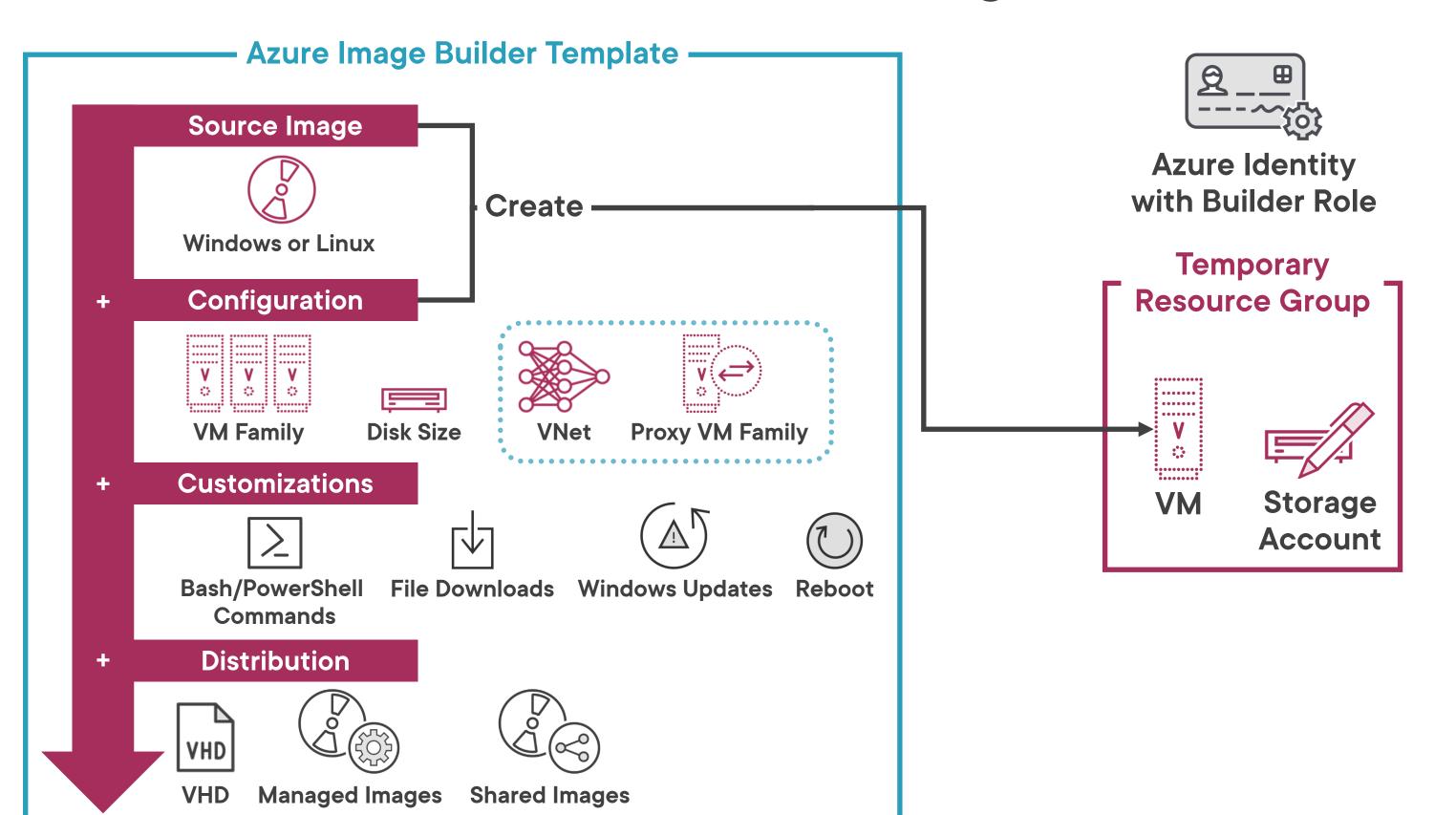




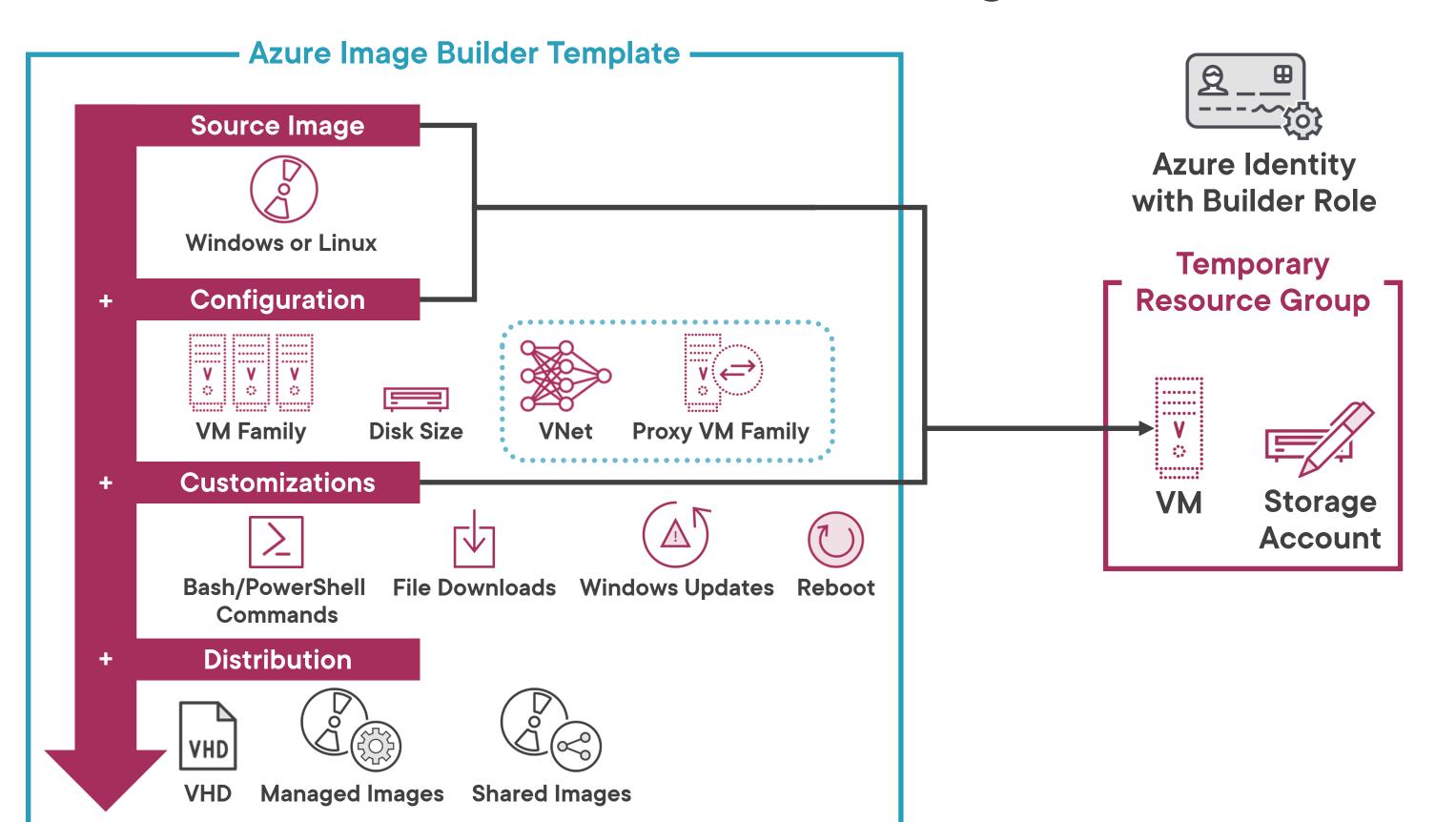


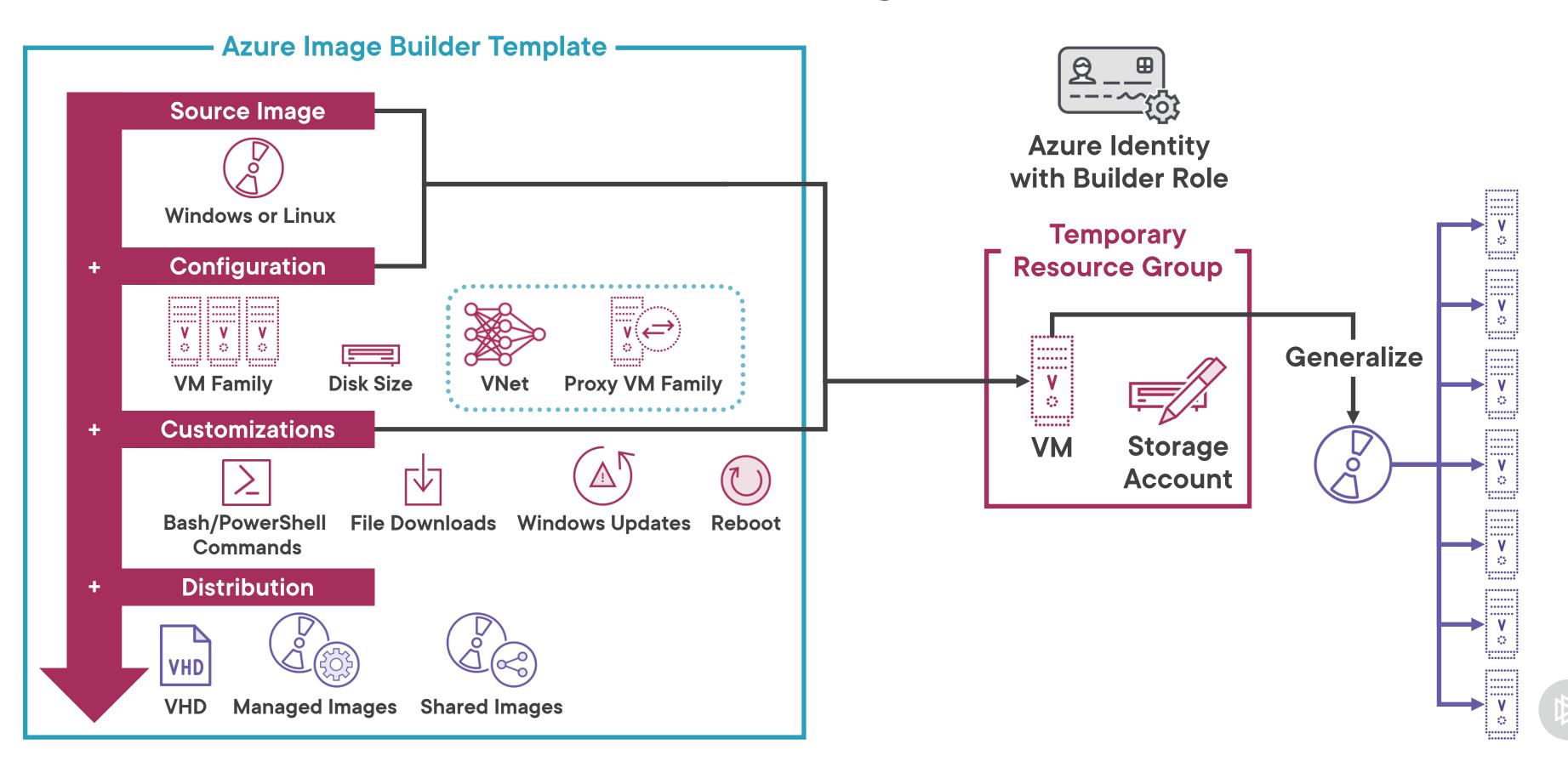


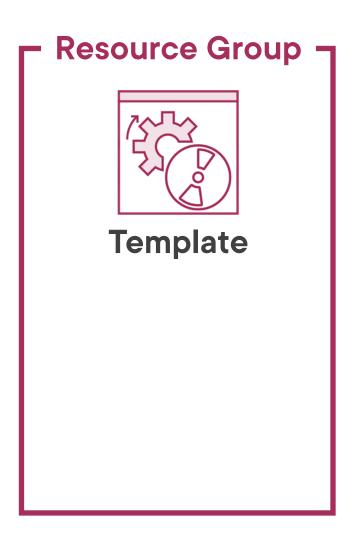








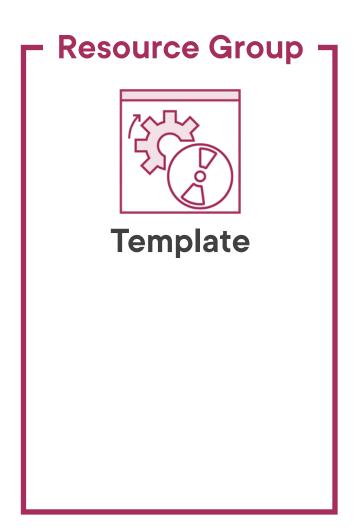




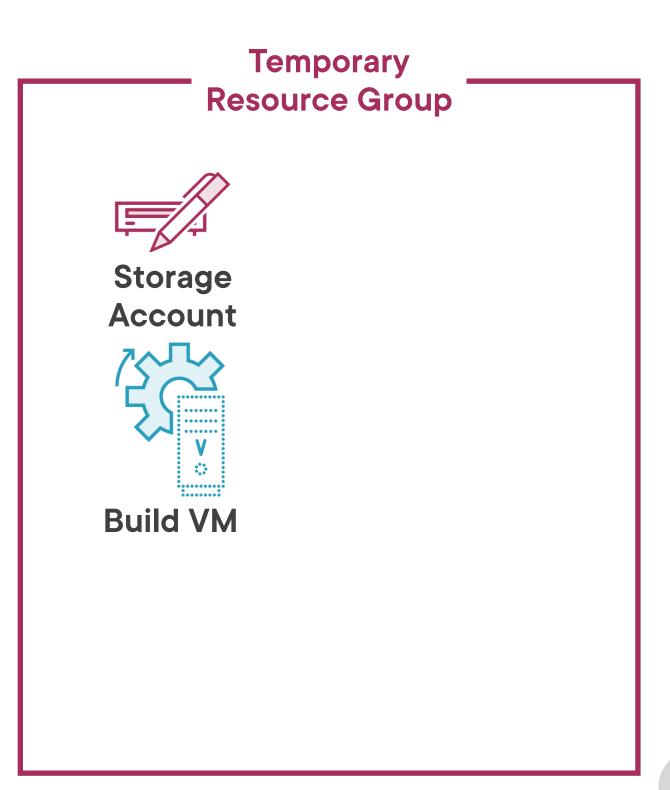


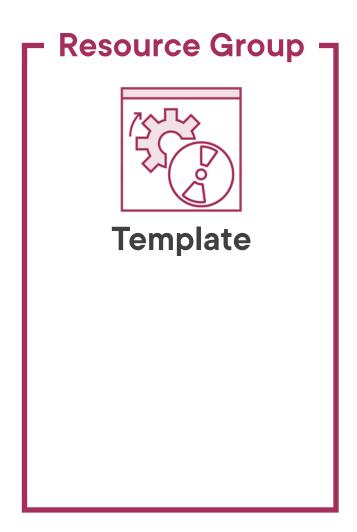




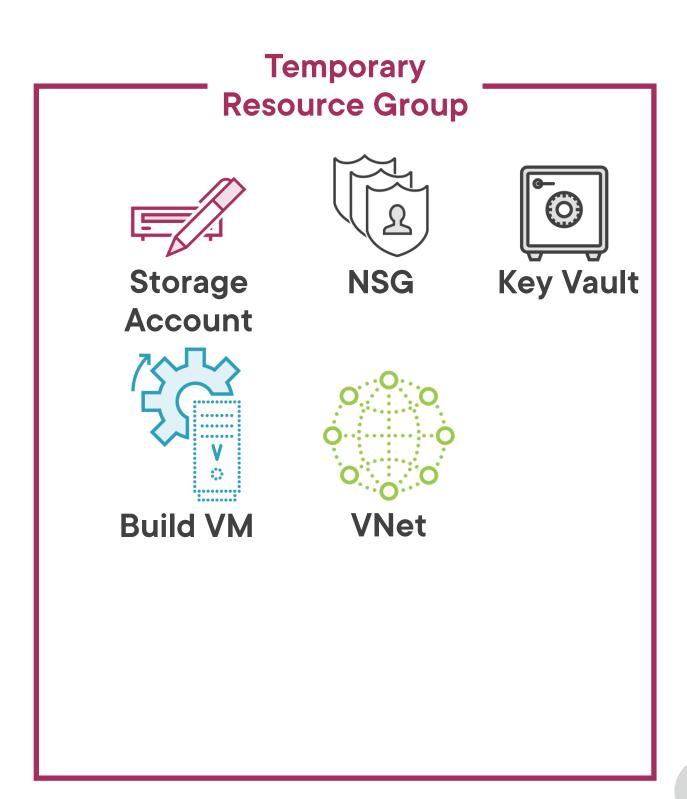


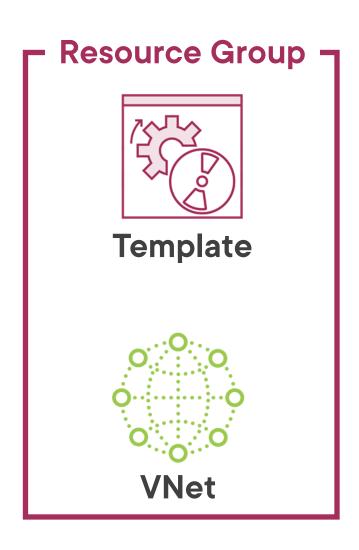




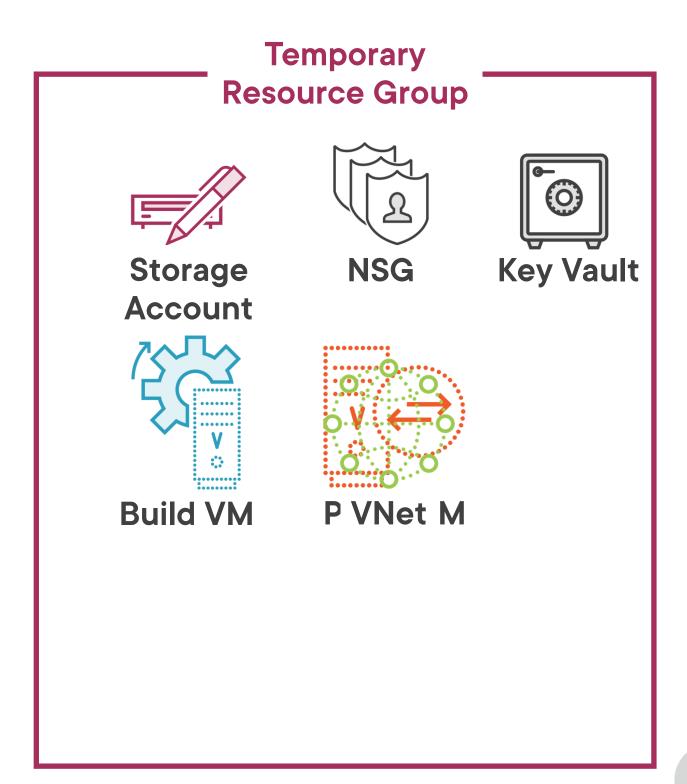


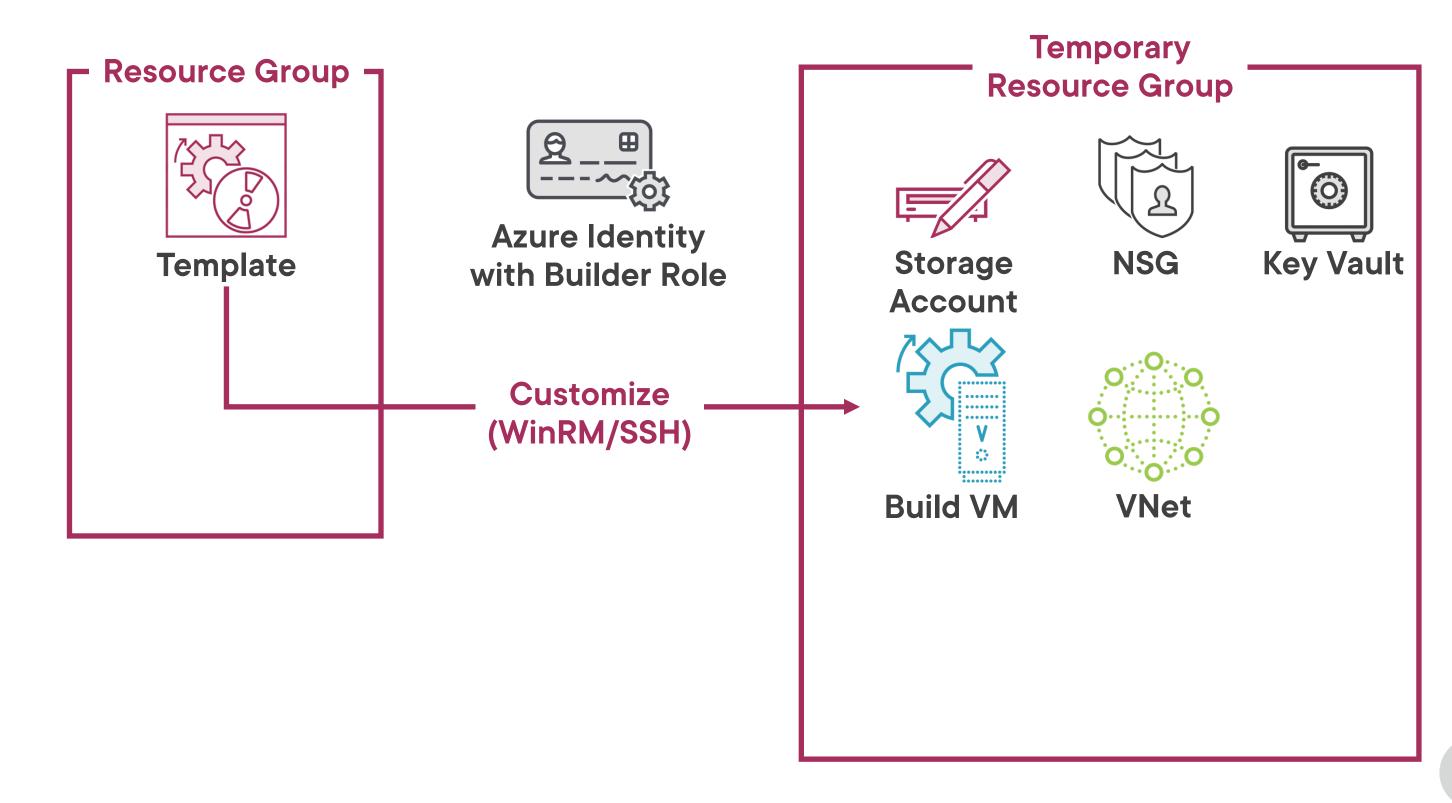


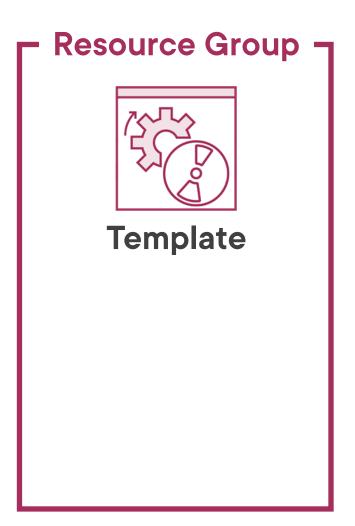




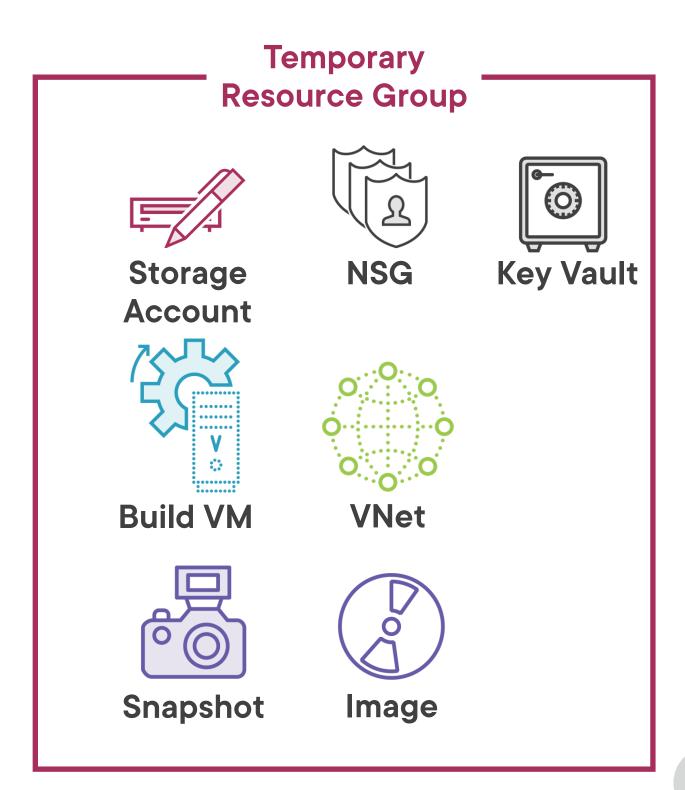


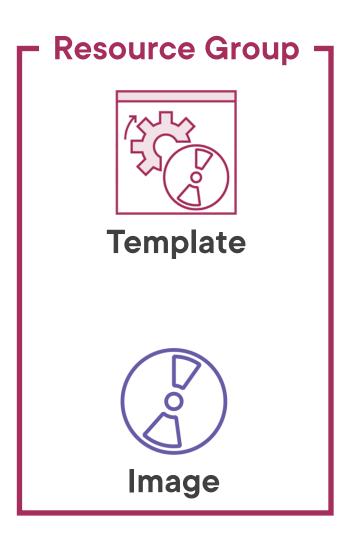




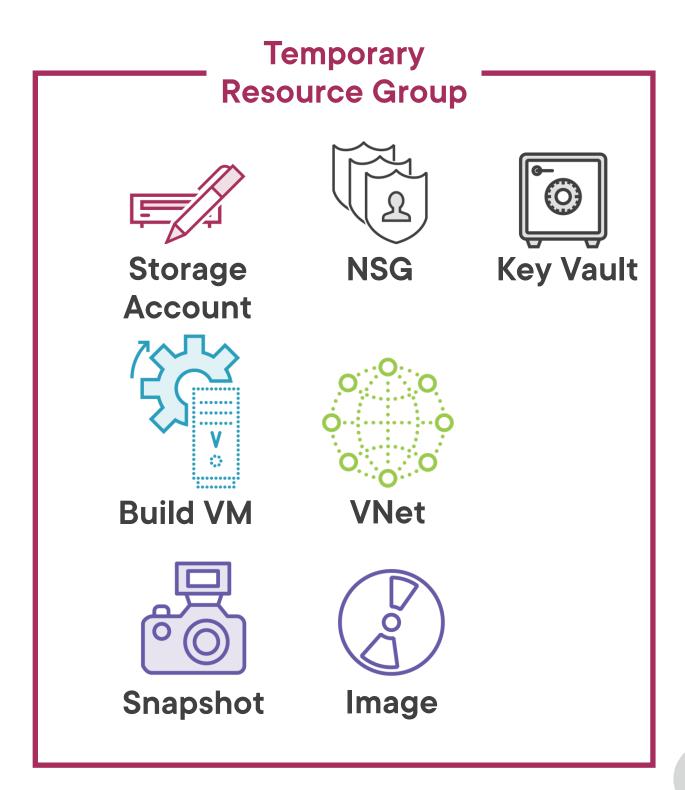


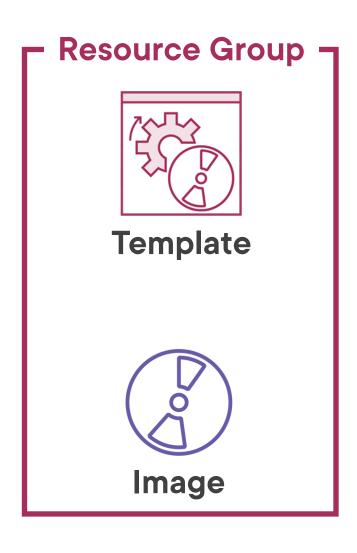








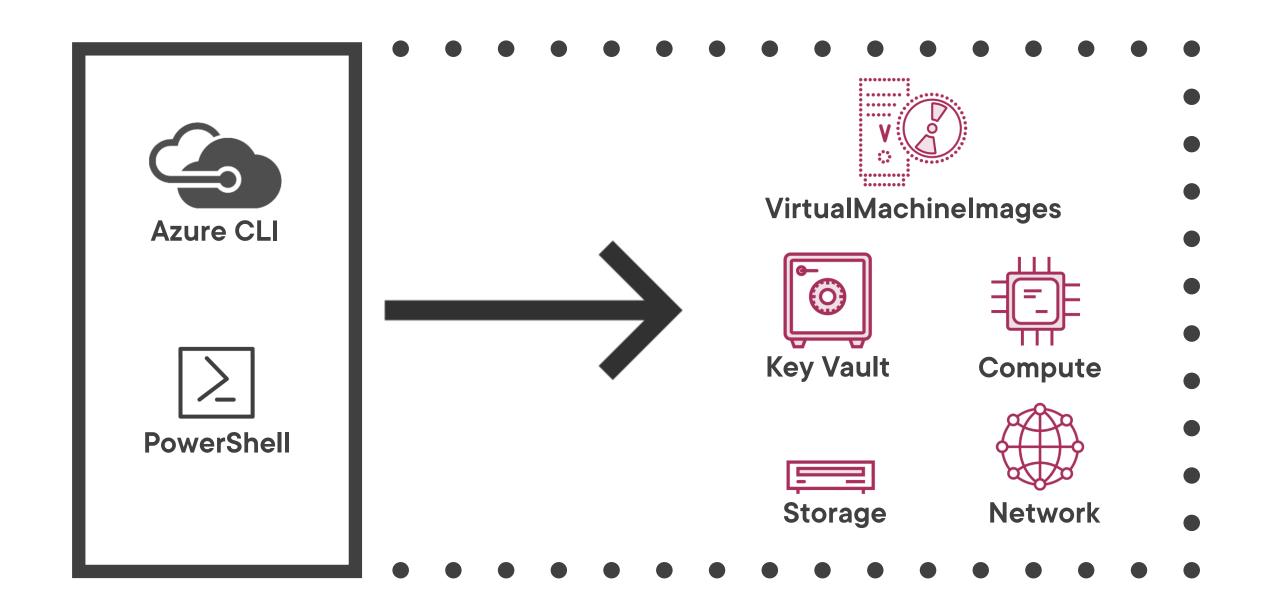








Tooling

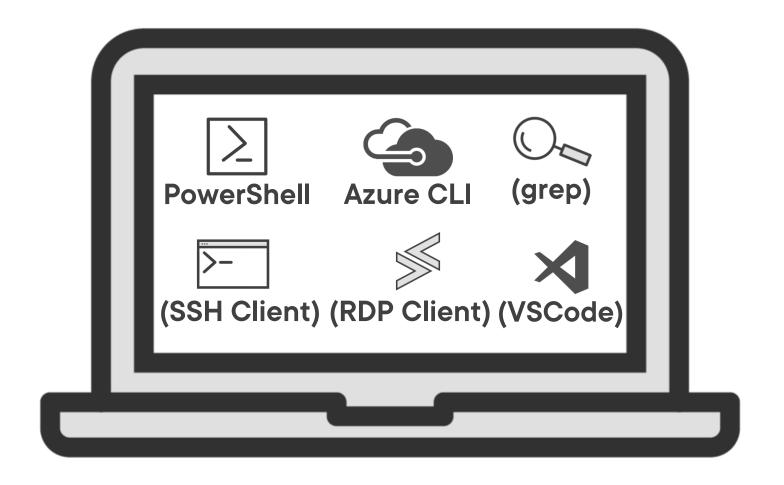




Prerequisites



Azure Subscription



Administrative Workstation

(Windows, Mac, Linux)

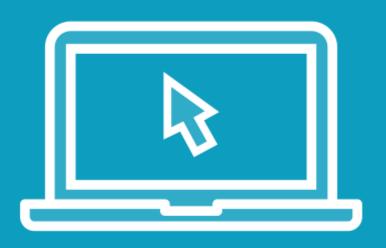
Demo



Azure CLI:

- Authoring a VM Template
- Building a VM Image
- Deploying a VM based on a Custom Image

Demo



Authoring and Building an Image With PowerShell

```
"type": "Microsoft.VirtualMachineImages/imageTemplates",
"apiVersion": "2020-02-14",
"location": "<region>",
"tags": {},
"identity":{},
"depends0n": [],
"properties": {
   "buildTimeoutInMinutes": <minutes>,
   "vmProfile": {},
   "source": {},
   "customize": {},
    "distribute": {}
```

- Azure Region this template should be deployed to
- Azure tags to be set on the template
- Azure identity with Image Builder role
- Azure resources required before proceeding
- ▼ Time in minutes before the build operation will be cancelled
- Family, disk size and VNet configuration of build VM
- Base image to be customized
- Customization steps
- Desired output type

```
"type": "Microsoft.VirtualMachineImages/imageTemplates",
"apiVersion": "2020-02-14",
"location": "<region>",
"tags": {},
"identity":{},
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"properties": {
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   "source": {},
   "customize": {},
   "distribute": {}
```

```
"identity": {
    "type": "UserAssigned",
        "userAssignedIdentities": {
        "<imgBuilderId>": {}
     }
    },
```

```
"type": "Microsoft.VirtualMachineImages/imageTemplates",
"apiVersion": "2020-02-14",
"location": "<region>",
"tags": {},
"identity":{},
"depends0n": [],
"properties": {
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        "userAssignedIdentities": {
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        }
     },
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"properties": {
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    "vmProfile": {},
   "source": {},
   "customize": {},
    "distribute": {}
```

```
"source": {
    "type": "PlatformImage",
    "publisher": "MicrosoftWindowsServer",
    "offer": "WindowsServer",
    "sku": "2019-Datacenter",
    "version": "latest"
},
```

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```

```
"customize": [
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         "name": "CreateBuildPath",
         "runElevated": false,
         "scriptUri": "<Uri>",
         "runAsSystem": false,
         "sha256Checksum": null,
         "validExitCodes": null
      },
```

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    "source": {},
   "customize": {},
    "distribute": {}
```

```
"customize": [
      {...
        "type": "PowerShell",
        "name": "<Name>",
        "runElevated": false,
        "inline": [
           "<Command>",
           "<Command>"
```

```
"type": "Microsoft.VirtualMachineImages/imageTemplates",
"apiVersion": "2020-02-14",
"location": "<region>",
"tags": {},
"identity":{},
"dependsOn": [],
"properties": {
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```
"customize": [
      {...
        "type": "PowerShell",
        "name": "<Name>",
        "runElevated": false,
        "inline": [
           "<Command>",
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"customize": [
      {...
        "type": "PowerShell",
        "name": "<Name>",
         "runElevated": false,
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"properties": {
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   "vmProfile": {},
   "source": {},
   "customize": {},
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```

```
"customize": [
      {...
         "type": "WindowsUpdate",
           "searchCriteria": "IsInstalled=0",
            "filters": [
              "exclude:$_.Title -like '*Preview*'",
              "include:$true"
           "updateLimit": 20
      },
```

```
"type": "Microsoft.VirtualMachineImages/imageTemplates",
"apiVersion": "2020-02-14",
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              "exclude:$_.Title -like '*Preview*'",
              "include:$true"
           "updateLimit": 20
      },
```

```
"type": "Microsoft.VirtualMachineImages/imageTemplates",
"apiVersion": "2020-02-14",
"location": "<region>",
"tags": {},
"identity":{},
"depends0n": [],
"properties": {
   "buildTimeoutInMinutes": <minutes>,
   "vmProfile": {},
   "source": {},
   "customize": {},
   "distribute": {}
```

```
"customize": [
      {...
         "type": "WindowsUpdate",
           "searchCriteria": "IsInstalled=0",
           "filters": [
              "exclude:$_.Title -like '*Preview*'",
              "include:$true"
           "updateLimit": 20
```

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"type": "Microsoft.VirtualMachineImages/imageTemplates",
"apiVersion": "2020-02-14",
"location": "<region>",
"tags": {},
"identity":{},
"depends0n": [],
"properties": {
   "buildTimeoutInMinutes": <minutes>,
   "vmProfile": {},
   "source": {},
   "customize": {},
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```

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      {...
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           "updateLimit": 20
      },
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"identity":{},
"depends0n": [],
"properties": {
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   "source": {},
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"customize": [
      {...
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      },
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```
"type": "Microsoft.VirtualMachineImages/imageTemplates",
"apiVersion": "2020-02-14",
"location": "<region>",
"tags": {},
"identity":{},
"depends0n": [],
"properties": {
   "buildTimeoutInMinutes": <minutes>,
   "vmProfile": {},
   "source": {},
   "customize": {},
   "distribute": {}
```

```
"distribute":
           "type": "ManagedImage",
           "imageld": "<imageld>",
           "location": "<region>",
           "runOutputName": "<runOutputName>",
           "artifactTags": {
             "<tag>": "<value>",
             "<tag>": "<value>"
```

```
"type": "Microsoft.VirtualMachineImages/imageTemplates",
"apiVersion": "2020-02-14",
"location": "<region>",
"tags": {},
"identity":{},
"depends0n": [],
"properties": {
   "buildTimeoutInMinutes": <minutes>,
   "vmProfile": {},
   "source": {},
   "customize": {},
   "distribute": {}
```

```
"distribute":
           "type":"ManagedImage",
           "imageld": "<imageld>",
           "location": "<region>",
           "runOutputName": "<runOutputName>",
           "artifactTags": {
             "<tag>": "<value>",
             "<tag>": "<value>"
```

```
"type": "Microsoft.VirtualMachineImages/imageTemplates",
"apiVersion": "2020-02-14",
"location": "<region>",
"tags": {},
"identity":{},
"depends0n": [],
"properties": {
   "buildTimeoutInMinutes": <minutes>,
   "vmProfile": {},
   "source": {},
   "customize": {},
   "distribute": {}
```

```
"distribute":
           "type": "ManagedImage",
           "imageld": "<imageld>",
           "location": "<region>",
           "runOutputName": "<runOutputName>",
           "artifactTags": {
             "<tag>": "<value>",
             "<tag>": "<value>"
```

```
"type": "Microsoft.VirtualMachineImages/imageTemplates",
"apiVersion": "2020-02-14",
"location": "<region>",
"tags": {},
"identity":{},
"depends0n": [],
"properties": {
   "buildTimeoutInMinutes": <minutes>,
   "vmProfile": {},
   "source": {},
   "customize": {},
   "distribute": {}
```

```
"distribute":
           "type": "ManagedImage",
           "imageld": "<imageld>",
           "location": "<region>",
           "runOutputName": "<runOutputName>",
           "artifactTags": {
             "<tag>": "<value>",
             "<tag>": "<value>"
```

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"type": "Microsoft.VirtualMachineImages/imageTemplates",
"apiVersion": "2020-02-14",
"location": "<region>",
"tags": {},
"identity":{},
"depends0n": [],
"properties": {
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   "vmProfile": {},
   "source": {},
   "customize": {},
   "distribute": {}
```

```
"distribute":
           "type": "ManagedImage",
           "imageld": "<imageld>",
           "location": "<region>",
           "runOutputName": "<runOutputName>",
           "artifactTags": {
             "<tag>": "<value>",
             "<tag>": "<value>"
```

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"type": "Microsoft.VirtualMachineImages/imageTemplates",
"apiVersion": "2020-02-14",
"location": "<region>",
"tags": {},
"identity":{},
"depends0n": [],
"properties": {
    "buildTimeoutInMinutes": <minutes>,
   "vmProfile": {},
   "source": {},
   "customize": {},
    "distribute": {}
```

```
"distribute":
          "type": "ManagedImage",
           "imageld": "<imageld>",
           "location": "<region>",
           "runOutputName": "<runOutputName>",
          "artifactTags": {
             "<tag>": "<value>",
             "<tag>": "<value>"
```

Azure Image Builder and ARM Templates

ARM JSON

```
"$phëma"Michotsoft/Vischendadainægemagest/ianzegeeempolmateshemas/2015-01-01/deploymentTemplate.json#",
"apiVeosientVer2000"-02"140,0.0",
"locapaoametersegion>",
"tagsvar{aples": {},
"identėsour. <e } ; [
"depen(s0n": [],
"propertieame"{ "<Name>",
    "buildTimeoutI<u>mMinutes</u>": <minutes>,
    "vmProfile": {
   "source": {},
    "customize":
    "distribute": {}
```

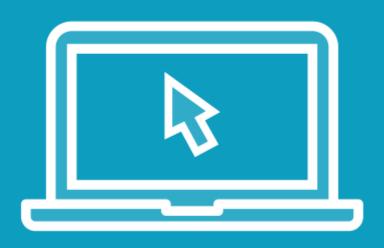
Azure Image Builder and ARM Templates

Bicep

```
resource test 'Microsoft.VirtualMachineImages/imageTemplates@2020-02-14' = {
    name: '<Name>'
```



Demo



Building a VM Template from JSON

Turning a VM Template into an ARM Template

Building a VM Template through ARM Templates

Summary



Azure Image Builder provides capabilities to build custom VM Images in Azure

AIB built Images can be deployed at scale

AIB deploys through the AZ CLI, PowerShell and ARM Templates

