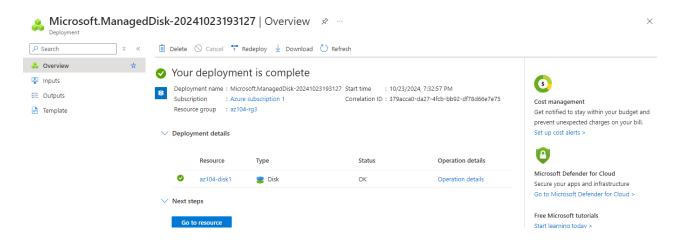
Lab 03 - Manage Azure resources by using Azure Resource Manager Templates

- Job skills
- Task 1: Create an Azure Resource Manager template
- Task 2: Edit an Azure Resource Manager template and then redeploy the template
- Task 3: Configure the Cloud Shell and deploy a template with PowerShell
- Task 4: Deploy a template with the CLI
- Task 5: Deploy a resource by using Azure Bicep

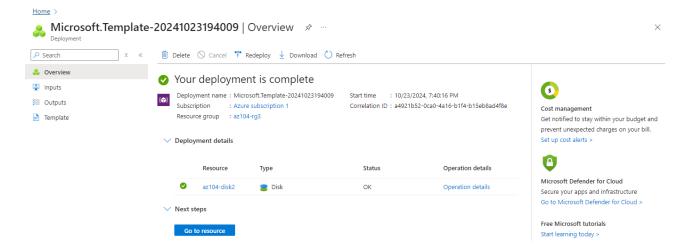
Task 1: Create an Azure Resource Manager template



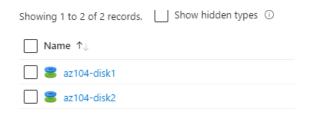
Created a managed disk

```
Template Parameters
 1 To export all resources in this resource group, navigate to the "Export template" experience under "Automation" on the left menu of the resource group.
                                                 "$schema": "https://schema.management.azure.com/schemas/2019-04-01/deploymentTemplate.
> rarameters (1)
Nariables (0)
                                                 contentVersion": "1.0.0.0",
                                                 "parameters": {
                                                     "disks_az104_disk1_name": {
    [parameters('disks_az104_disk1_na
                                                         "defaultValue": "az104-disk1",
       (Microsoft.Compute/disks)
                                                         "type": "String"
                                       8
                                       9
                                      10
                                                 "variables": {},
                                      11
                                                 "resources": [
                                      12
                                      13
                                                         "type": "Microsoft.Compute/disks",
                                      14
                                                         "apiVersion": "2024-03-02",
                                      15
                                                         "name": "[parameters('disks_az104_disk1_name')]",
                                      16
                                                         "location": "eastus",
                                      17
                                                         "sku": {
                                                              "name": "Standard_LRS",
                                      18
                                      19
                                                             "tier": "Standard"
                                      20
```

Exported a template



Provisioned an infrastructure using re-configured template.



Verifying the amount of disks

Task 3: Configure the Cloud Shell and deploy a template with PowerShell

```
PS /home/azureuser> New-AzResourceGroupDeployment -ResourceGroupName az104-rg3 -TemplateFile template.json -TemplateParameterFile parameters.json

DeploymentName : template : az104-rg3
ProvisioningState : Succeeded
Timestamp : 10/23/2024 4:50:52 PM
Node : Incremental
TemplateLink :
Parameters : :
```

Created storage account (disk2)

```
],
   "provisioningState": "Succeeded",
   "templateHash": "555163715730077222",
   "templateLink": null,
   "timestamp": "2024-10-23T16:53:03.873258+00:00",
   "validatedResources": null
   },
   "resourceGroup": "az104-rg3",
   Terminal container button
   "tags": null,
   "type": "Microsoft.Resources/deployments"
}
PS /home/azureuser> []
```

Created storage account (disk4)

```
1  @description('Name of the managed disk to be copied')
2  param managedDiskName string = 'Disk4'
3
4  @description('Disk size in GiB')
5  @minValue(4)
6  @maxValue(65536)
7  param diskSizeinGiB int = 32
8
9  @description('Disk IOPS value')
10  @minValue(100)
11  @maxValue(160000)
12  param diskIopsReadWrite int = 100
13
```

Made changes to azuredeploydisk.bicep file.

```
azureuser [ ~ ]$ az disk list --output table
Name
            ResourceGroup
                            Location
                                        Zones
                                                Sku
                                                                SizeGb
                                                                          <u>ProvisioningState</u>
                                                ----- Terminal container button -----
az104-disk1 AZ104-RG3
                                                Standard LRS
                                                                32
                                                                          Succeeded
                            eastus
                                                                32
az104-disk2 AZ104-RG3
                                                Standard_LRS
                                                                          Succeeded
                            eastus
az104-disk4 AZ104-RG3
                                                                32
                            eastus
                                                Standard LRS
                                                                          Succeeded
            AZ104-RG3
                                                StandardSSD_LRS 32
                            eastus
                                                                          Succeeded
azureuser [ ~ ]$
```

Everything created successfully