Lab - ARM Templates - Troubleshooting Templates and **Deployments**

A Please note that the lab environment is restricted by policy. You will be able to create only the Azure resources required by the lab.

This lab will guide you through troubleshooting a variety of template deployment failures that you may encounter in the real world.

The templates have already been written and need to be carefully reviewed to determine what is causing their deployment failure. The templates can be found in C:\Lab_Files\M04\S06 along with an errorfree version of the templates. Also, there will be links throughout the lab that can be clicked to reveal the answer.

Remember that each Azure resource is typically deployed in its own operation and therefore can be a very useful method for troubleshooting. To see each operation's request & response (for helping determine which area of the template is erroring out) use the following example:

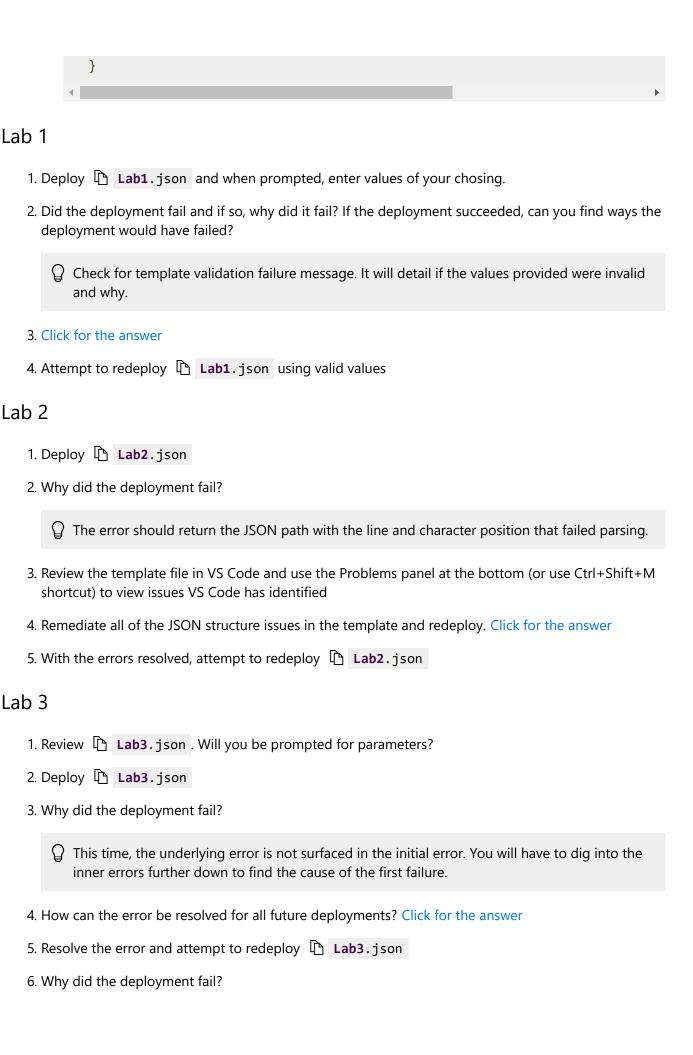
 $\lceil \rceil$ This will only work if the deployment is submitted to ARM. For pre-validation errors, the deployment will not exist.

- 1. Sign into StandardVM as T LabUser using T Pa\$\$w0rd as the password.
- 2. The deployment must use the flag -DeploymentDebugLogLevel All
 - a. Example:

```
powershell
P
      New-AzResourceGroupDeployment -Name PIP -ResourceGroupName '{RESOURCE_GROUP
```

- 3. Pull back each operation by referencing the original deployment's name
 - a. Example:

```
powershell
      $operations = Get-AzResourceGroupDeploymentOperation -DeploymentName PIP -R
P
      foreach ($operation in $operations)
          Write-Host $operation.id
          Write-Host "Request:"
          $operation.Properties.Request | ConvertTo-Json -Depth 10
          Write-Host "Response:"
          $operation.Properties.Response | ConvertTo-Json -Depth 10
```



- Because pre-deployment validation succeeded, you can use the Get-AzResourceGroupDeploymentOperation script at the beginning of the guide to gather deployment errors. Were all dependent resources deployed in time? How can resource dependency be defined?

 7. Click for the answer

 8. Resolve the error and attempt to redeploy Lab3.json

 Lab 4
- 1. Deploy 🖒 Lab4.json
 - 2. Why did the deployment fail? Click for the answer
 - 3. Resolve the error and attempt to redeploy Lab4.json
 - 4. Why did the deployment fail? Click for the answer
 - 5. Resolve the error and attempt to redeploy 🖒 Lab4.json

Lab 5

- 1. Delete the App Service and Plan to prevent a conflict with Windows and Linux App Service Plans in the same Resource Group.
- 2. Deploy 🖺 Lab5.json
- 3. Why did the deployment fail? Click for the answer
- 4. Resolve the error and attempt to redeploy 🖒 Lab5.json
- 5. Why did the deployment fail? Click for the answer
- 6. Resolve the error and attempt to redeploy 🖒 Lab5.json

Lab 6

- 1. Deploy 🖺 Lab6.json
- 2. Why did the deployment fail? Click for the answer
- 3. Resolve the error and attempt to redeploy 🖒 Lab6.json