

AZ-104 LAB REPORT [WEEK #5]

BY

EMMANUEL MUTURIATM

ADMISSION NUMBER [ADC-SE02-25011]



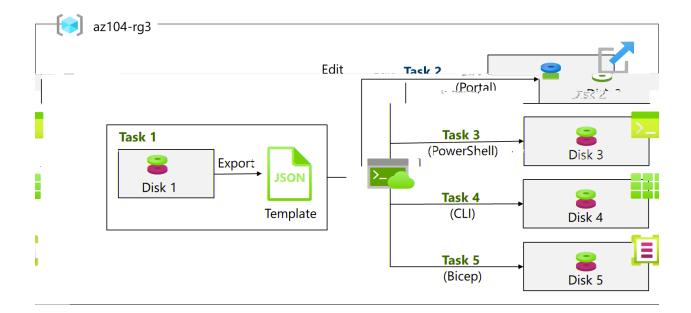
TABLE OF CONTENTS

INTRODUCTION
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]
17151K #5 [Deploy a resource by using recurrence]
CONCLUSION
DEEEDENCEC



INTRODUCTION

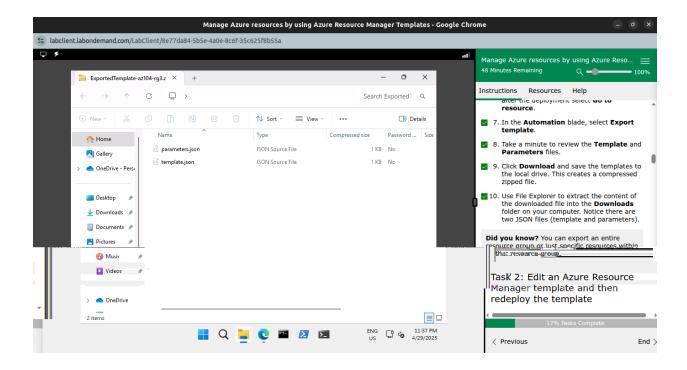
This report documents my completion of the Manage Azure resources by using Azure Resource Manager Templates Lab. In this Lab, I learnt how to automate resource deployments. I learnt about Azure Resource Manager templates and Bicep templates, and the different ways of deploying the templates.





TASK #1 [Create an Azure Resource Manager template]

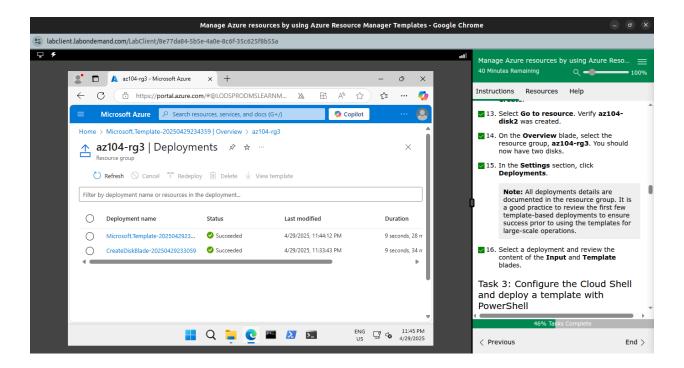
In this task, I created a managed disk in the Azure portal. Managed disks are storage designed to be used with virtual machines. Once the disk was deployed, I exported a template that I used in other deployments.





TASK #2 [Edit an Azure Resource Manager template and then redeploy the template]

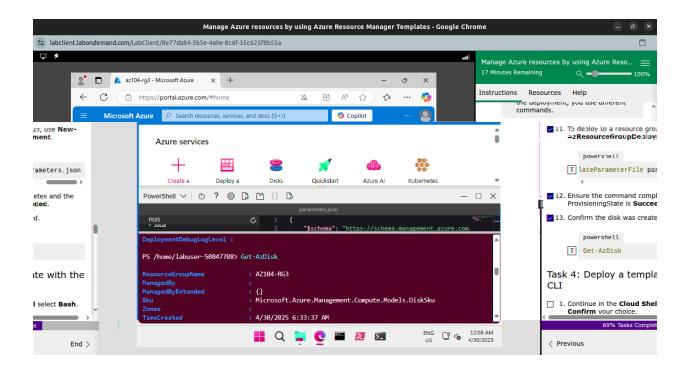
In this task, I used the downloaded template to deploy a new managed disk. This task outlined how to quickly and easily repeat deployments.





TASK #3 [Configure the Cloud Shell and deploy a template with PowerShell]

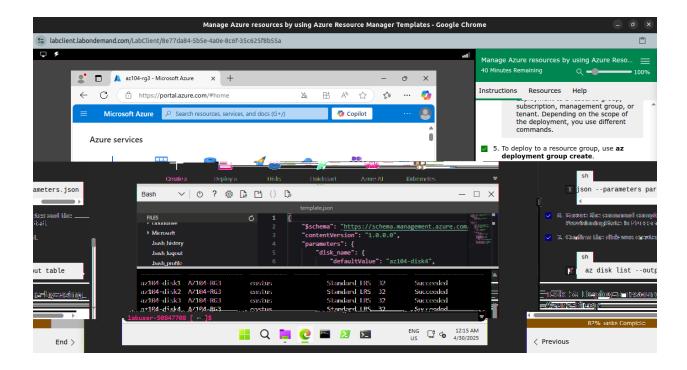
In this task, I worked with the Azure Cloud Shell and Azure PowerShell. Azure Cloud Shell is an interactive, authenticated, browser-accessible terminal for managing Azure resources. It provides the flexibility of choosing the shell experience that best suits the way you work, either Bash or PowerShell. In this task, I used PowerShell to deploy a template.





TASK #4 [Deploy a template with the CLI]

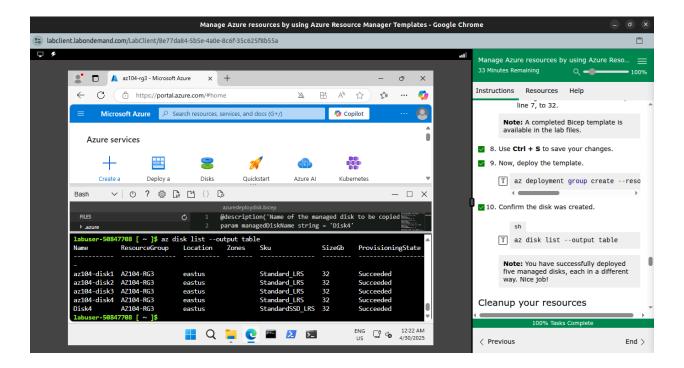
In this task, I deployed an Azure Template using Bash.





TASK #5 [Deploy a resource by using Azure Bicep]

In this task, I used a Bicep file to deploy a managed disk. Bicep is a declarative automation tool that is built on ARM templates.





CONCLUSION

This lab helped solidify the management of Azure resources using Azure Resource Manager Templates. I learnt that Azure Resource Manager templates let you deploy, manage, and monitor all the resources for your solution as a group, rather than handling these resources individually. An Azure Resource Manager template is a JavaScript Object Notation [JSON] file that lets you manage your infrastructure declaratively rather than with scripts. Rather than passing parameters as inline values in your template, you can use a separate JSON file that contains the parameter values. Azure Resource Manager templates can be deployed in a variety of ways, including the Azure portal, Azure PowerShell, and CLI. Interestingly, I learnt that Bicep is an alternative to Azure Resource Manager templates. Bicep uses a declarative syntax to deploy Azure resources. Bicep provides concise syntax, reliable type safety, and support for code reuse. Bicep offers a first-class authoring experience for your infrastructure-as-code solutions in Azure.



REFERENCES

Login - Skillable TMS. (2024). Learnondemand.net.

https://msle.learnondemand.net/Lab/64587?

instructionSetLang=en&classId=676661