



AZ-104 LAB [B] REPORT [WEEK #4]

BY

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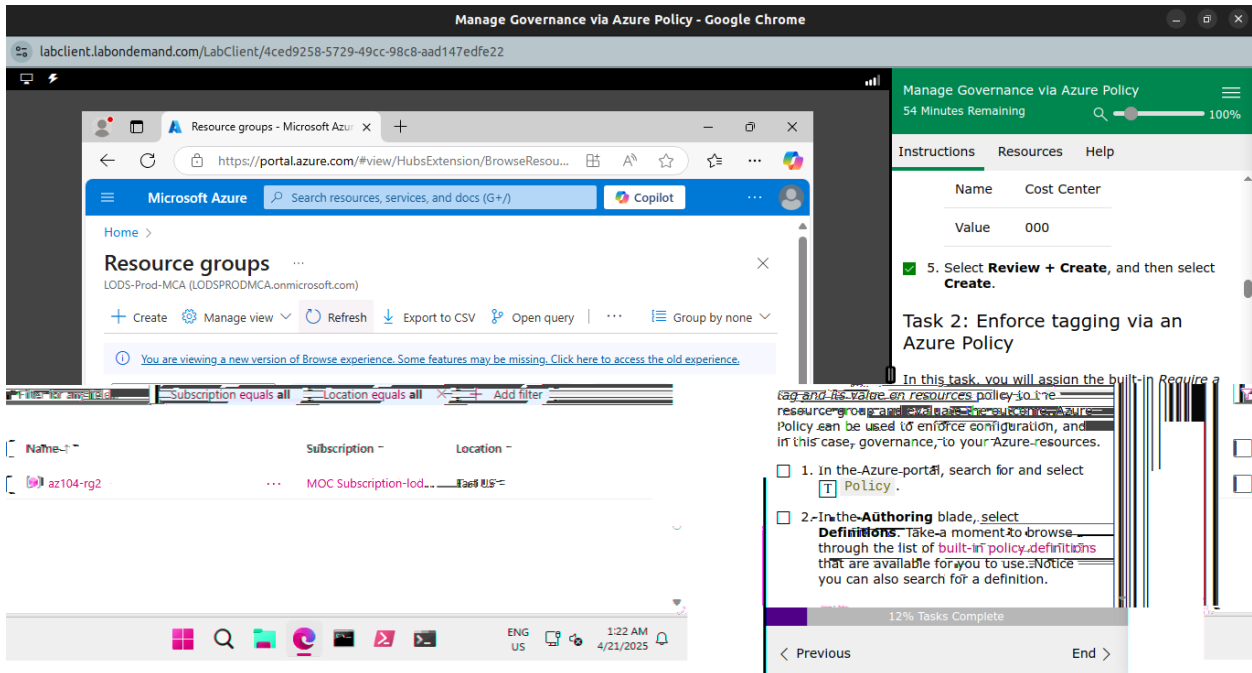
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INTRODUCTION

This report documents my completion of the Manage Governance via Azure Policy AZ-104 Lab. I learnt how to implement my organisation's governance plans, how Azure policies can ensure operational decisions are enforced across the organisation, and how to use resource tagging to improve reporting.

TASK #1 [Assign tags via the Azure portal]

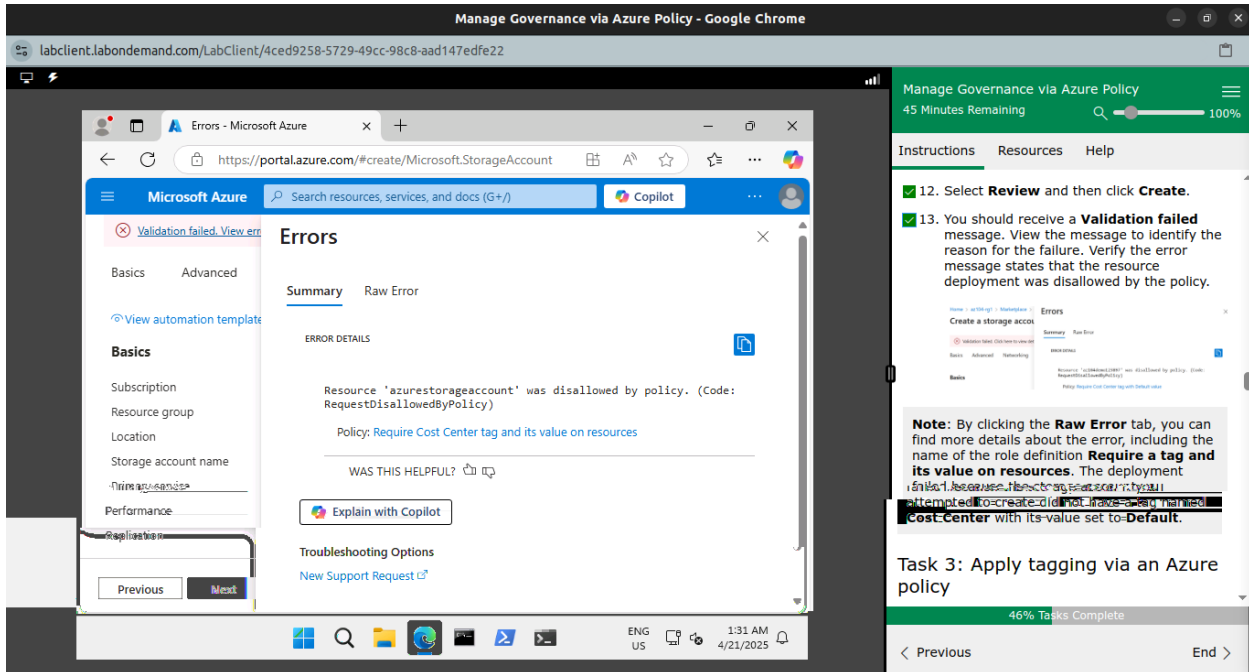
In this task, I created and assigned a tag to an Azure resource group via the Azure portal. Tags are a critical component of a governance strategy as outlined by the Microsoft Well-Architected Framework and Cloud Adoption Framework. Tags can allow you to quickly identify resource owners, sunset dates, group contacts, and other name/value pairs that your organisation deems important. For this task, I assigned a tag identifying the resource role ['Infra' for 'Infrastructure'].



The screenshot shows the Azure portal interface. The main window displays the 'Resource groups' page for the subscription 'LODS-Prod-MCA (LODSPROD-MCA.onmicrosoft.com)'. It lists a resource group named 'az104-rg2' with a tag 'MOC Subscription-Id...' and a value 'US\$'. A task overlay titled 'Manage Governance via Azure Policy' is visible on the right, showing instructions for Task 2: Enforce tagging via an Azure Policy. The task instructions include: 'In this task, you will assign the built-in tag-and-its-value-on-resources policy to the resource group and create a tag-and-its-value-on-resources policy definition. Azure Policy can be used to enforce configuration, and in this case, governance, to your Azure resources.' The task steps are: 1. In the Azure portal, search for and select Policy. 2. In the Authoring blade, select Definitions. Take a moment to browse through the list of built-in policy definitions that are available for you to use. Notice you can also search for a definition.

TASK #2 [Enforce tagging via an Azure Policy]

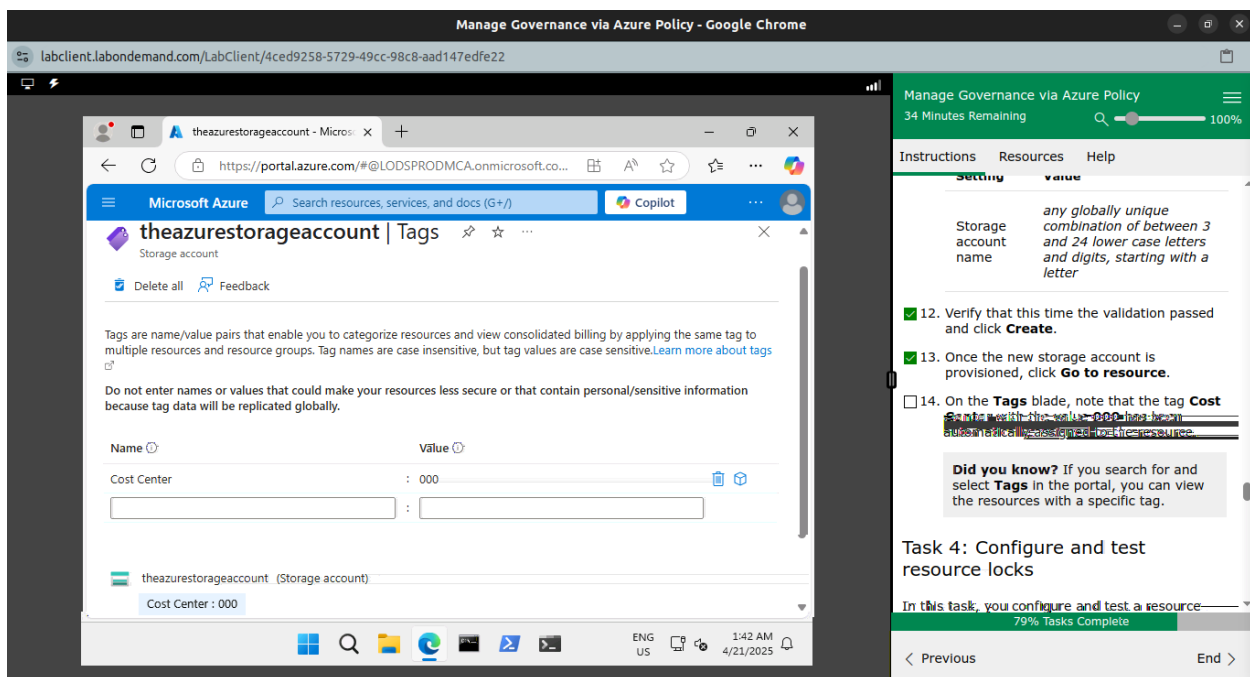
In this task, I assigned the built-in Require a tag and its value on resources policy to the resource group and evaluate the outcome. Azure Policy can be used to enforce configuration, and in this case, governance, to your Azure resources.



The screenshot displays the Microsoft Azure portal interface. On the left, the 'Errors - Microsoft Azure' window shows a 'Validation failed' message. The main pane displays the 'Errors' section with a 'Summary' tab selected. The error details indicate that the resource 'azurestorageaccount' was disallowed by a policy named 'Require Cost Center tag and its value on resources'. The error code is 'RequestDisallowedByPolicy'. A 'Raw Error' tab is also visible. On the right side, a 'Manage Governance via Azure Policy' sidebar is open, showing instructions for the task. The instructions include steps 12 and 13, which guide the user to select 'Review' and 'Create' to apply the policy. A note explains that clicking the 'Raw Error' tab provides more details about the error, including the role definition name 'Require a tag and its value on resources'. The task is titled 'Task 3: Apply tagging via an Azure policy' and shows a progress bar at 46% completion.

TASK #3 [Apply tagging via an Azure policy]

In this task, I used the new policy definition to remediate any non-compliant resources. In this scenario, I made any child resources of a resource group able to inherit the Cost Centre tag that was defined on the resource group.



theazurestorageaccount | Tags

Storage account

Delete all Feedback

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Tag names are case insensitive, but tag values are case sensitive. [Learn more about tags](#)

Do not enter names or values that could make your resources less secure or that contain personal/sensitive information because tag data will be replicated globally.

Name Value

Cost Center : 000

theazurestorageaccount (Storage account)

Cost Center : 000

Manage Governance via Azure Policy

34 Minutes Remaining

Instructions Resources Help

Setting Value

Storage account name any globally unique combination of between 3 and 24 lower case letters and digits, starting with a letter

12. Verify that this time the validation passed and click **Create**.

13. Once the new storage account is provisioned, click **Go to resource**.

14. On the **Tags** blade, note that the tag **Cost Center** with the value **000** has been automatically assigned to the resource.

Did you know? If you search for and select **Tags** in the portal, you can view the resources with a specific tag.

Task 4: Configure and test resource locks

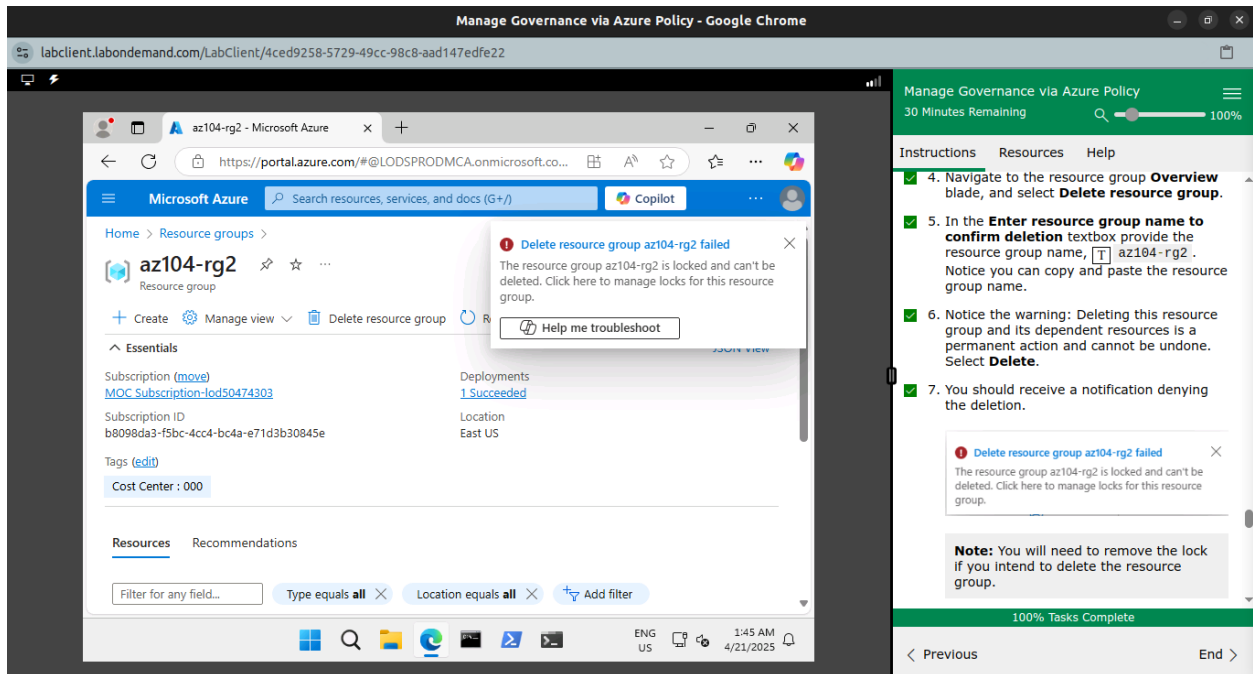
In this task, you configure and test a resource lock

79% Tasks Complete

< Previous End >

TASK #4 [Configure and test resource locks]

In this task, I configured and tested a resource lock. Locks prevent either deletions or modifications of a resource.



The screenshot displays the Microsoft Azure portal interface. The main content area shows the 'az104-rg2' resource group overview. A red error message is overlaid on the 'Delete resource group' button, stating: "Delete resource group az104-rg2 failed. The resource group az104-rg2 is locked and can't be deleted. Click here to manage locks for this resource group." The right sidebar contains a checklist of instructions for deleting a resource group, with steps 4 through 7 completed. The status bar at the bottom indicates "100% Tasks Complete".

CONCLUSION

This lab helped solidify the management of Governance via Azure Policy in Microsoft Entra ID. By practising it, I learnt that Azure tags are metadata that consists of a key-value pair. Tags describe a particular resource in your environment. In particular, tagging in Azure enables you to label your resources in a logical manner. Azure Policy establishes conventions for resources. Policy definitions describe resource compliance conditions and the effect to take if a condition is met. A condition compares a resource property field or a value to a required value. There are many built-in policy definitions and you can customise the policies. The Azure Policy remediation task feature is used to bring resources into compliance based on a definition and assignment. Resources that are non-compliant to a modify or deployIfNotExist definition assignment, can be brought into compliance using a remediation task. You can configure a resource lock on a subscription, resource group, or resource. The lock can protect a resource from accidental user deletions and modifications. The lock overrides any user permissions. Azure Policy is pre-deployment security practice. RBAC and resource locks are post-deployment security practices.

REFERENCES

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