Lab 8 CST8912_011

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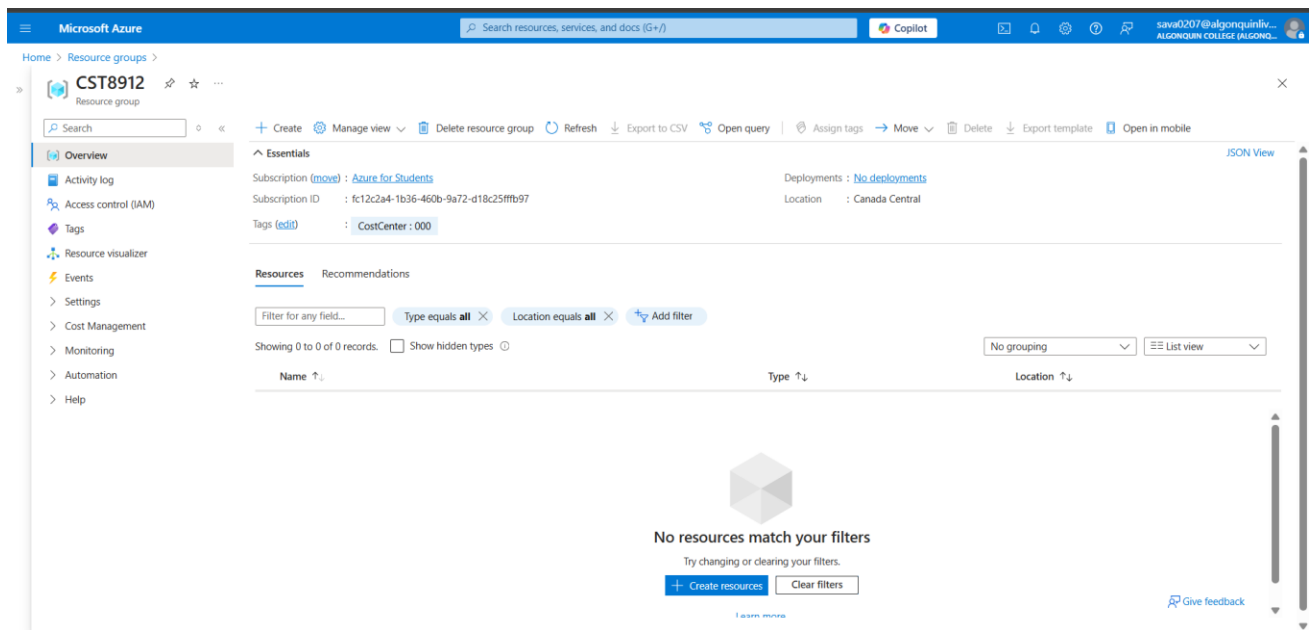# Submitted to:
Prof. Tanishq Bansal

Lab-8

Title

- Enforcing Tagging and Resource Locks in Azure
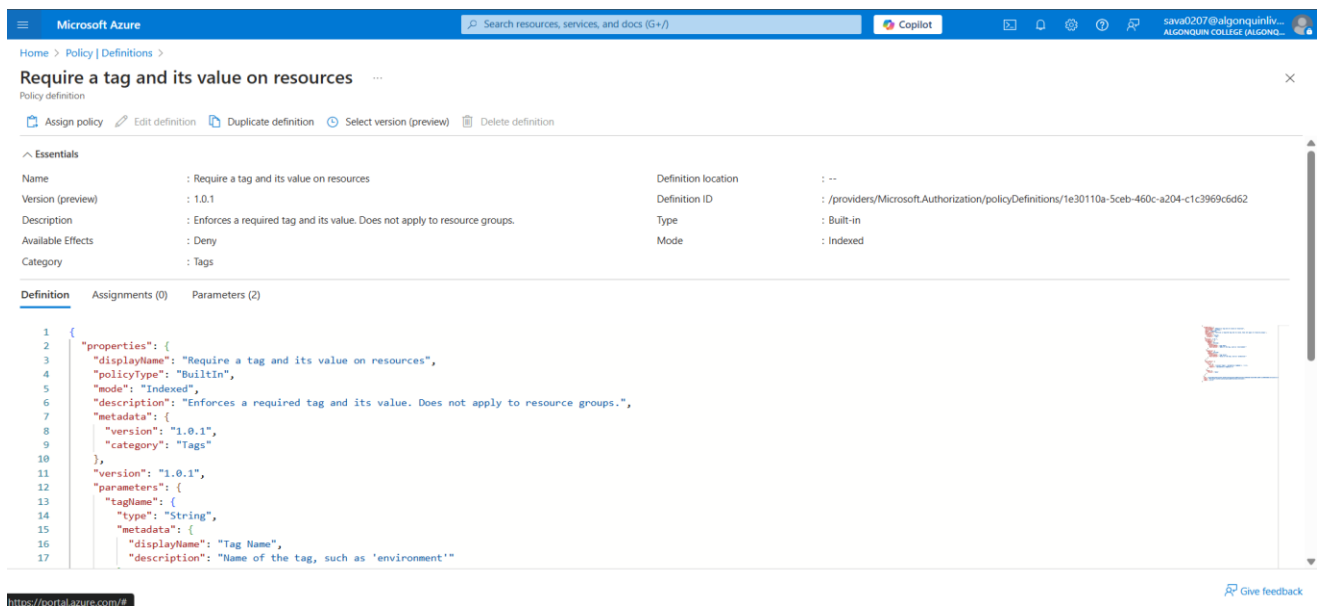
Introduction

- Managing cloud resources effectively is crucial for keeping everything organized, secure, and compliant with company policies and industry regulations. One of the simplest yet most powerful ways to do this is through **tagging**, which involves adding labels to resources to track costs, improve security, and automate processes. In this lab, you'll learn how to set up and enforce **tagging policies** in Azure to ensure all resources follow a consistent structure. You'll also configure **resource locks** to prevent accidental deletions or changes to important resources. By the end, you'll understand how tagging and resource locks help keep cloud environments well-managed, cost-efficient, and secure.

Steps

- first, sign in to the Azure portal and create a resource group with the necessary tags. Then, enforce tagging by assigning a built-in policy that requires a "Cost Center" tag on resources in the group. Afterward, test the policy by attempting to create a storage account without the tag, which should result in a validation error. For remediation, assign another policy to automatically inherit the "Cost Center" tag from the resource group for any missing resources. Next, configure resource locks to prevent accidental deletion of the resource group and test it by trying to delete the group, which will be blocked due to the lock. Finally, clean up by deleting the policy assignments and resources like storage accounts and tags from the portal. This process ensures proper cloud governance using tags, policies, and resource locks.

1.1 Resource group with Added tag value

2.1 Policy definition

2.2 Assign a policy

2.3 Policy tags

2.4 Storage account validation failed message
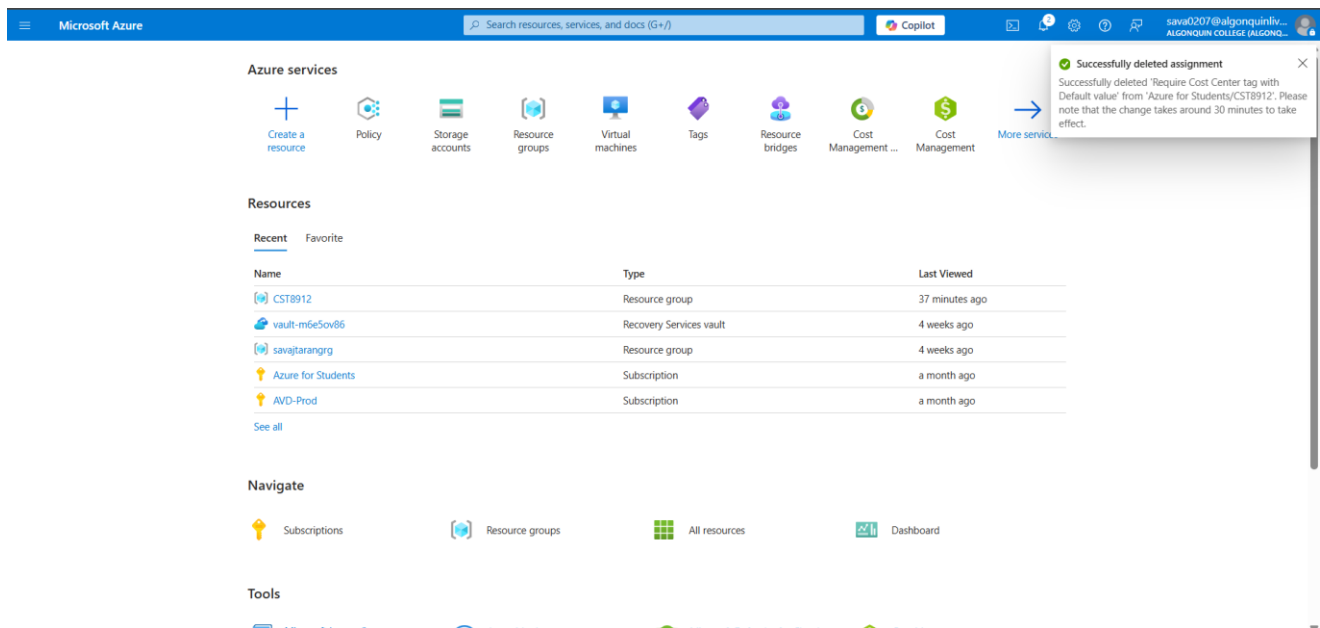
3.1 Deleting created policy

3.2 Creating policy definition

3.3 Parameters of policy assignment

3.4 Remediation of policy assignment

3.5 Automatically assigned tag Cost Center with the value 000
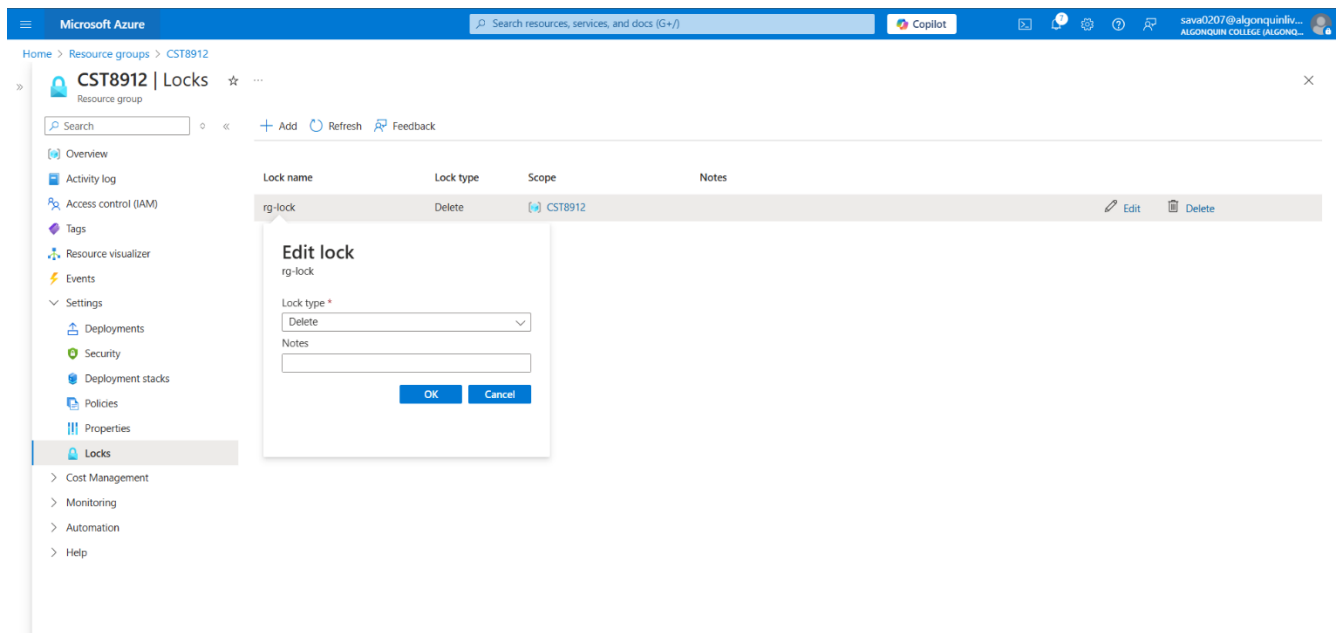
4.1 Locking in the resource group
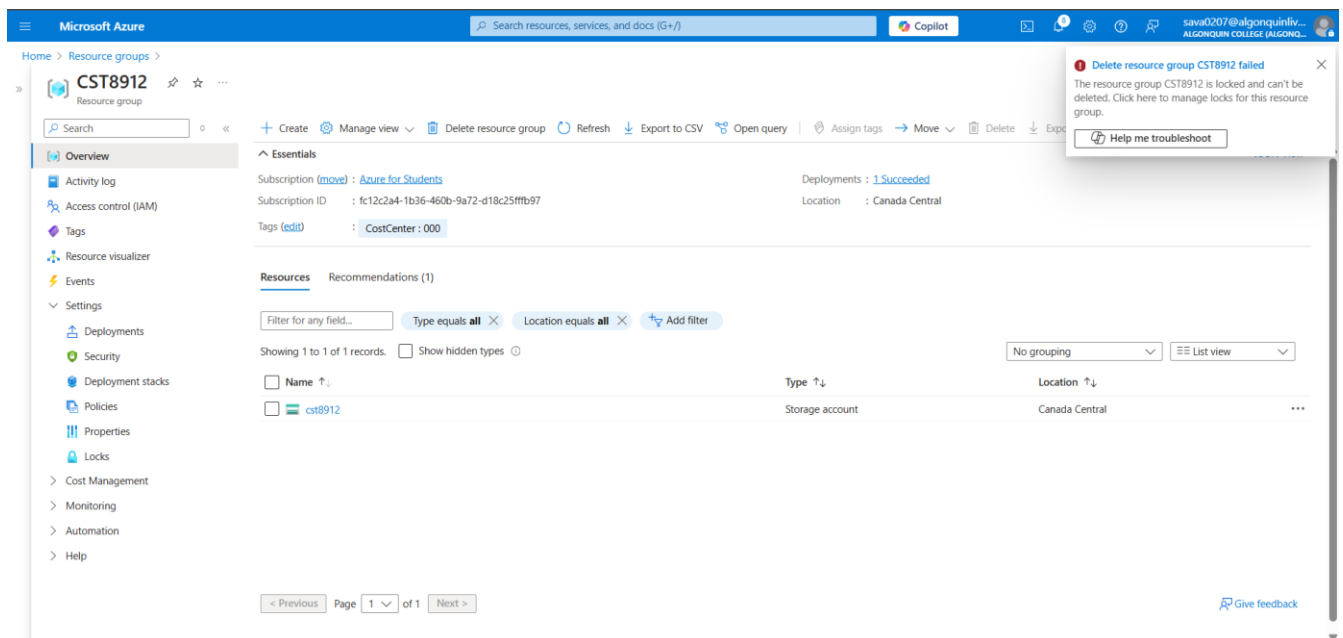
4.2 Receive a notification denying the deletion of Resource Group

5.1 Deleting policy

5.2 Deleting Storage account
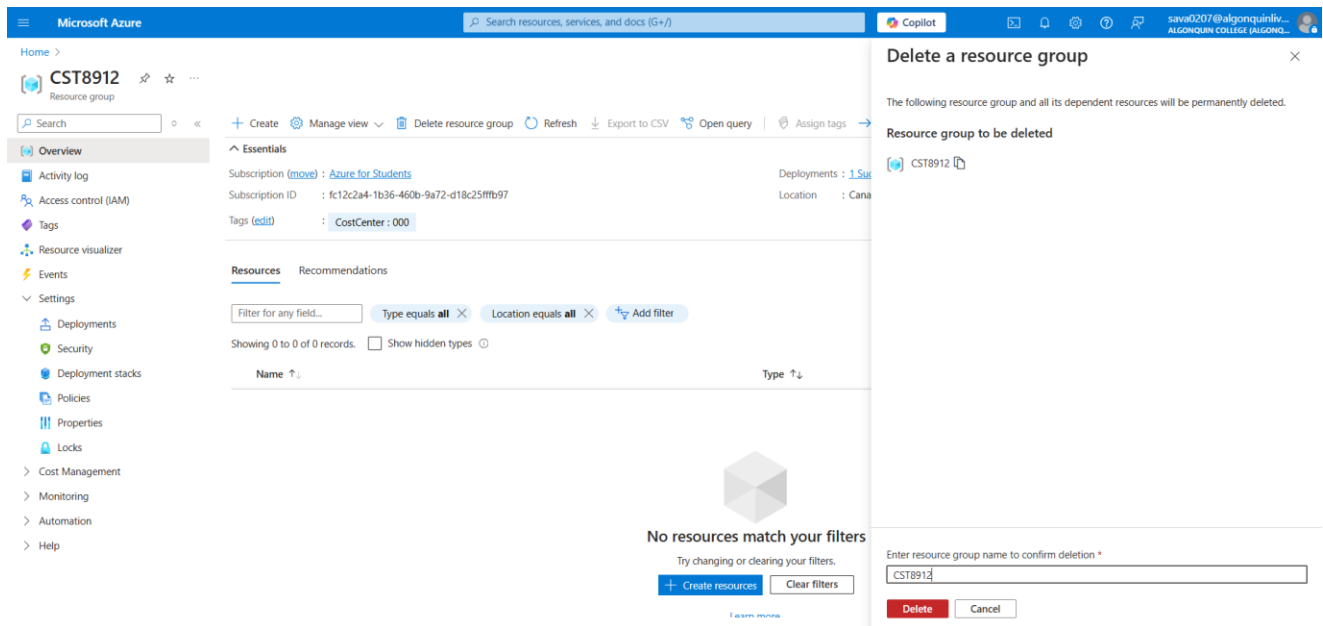
5.3 Deleting resource group

References

- References for this task are taken from the provided lab file.