Lab 8  
CST8912\_011  
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Submitted to :   
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# **Lab Report Format**

**Title**

Organizing Cloud Resources with Tags

**Introduction or Purpose**

Tagging cloud resources is essential for IT, especially when managing multiple departments and projects. As part of the Cloud Adoption Framework, tagging maximizes resource efficiency and cost-effectiveness. It is a key pillar of Cloud Governance, ensuring organization and lifecycle management. Tags also enable automation through Cloud Policy and Runbooks, improving compliance.

**Steps covered in the lab**

#### **Task 1: Assign Tags via Azure Portal**

1. Sign in to [Azure Portal](https://portal.azure.com).
2. Search for **Resource groups** and click **+ Create**.
3. Set:
   * **Subscription**: Your subscription
   * **Resource Group Name**: CST8912
   * **Location**: Canada Central
4. Click **Next: Tags**, create a tag:
   * **Name**: Cost Center
   * **Value**: 000
5. Click **Review + Create** → **Create**.

#### **Task 2: Enforce Tagging via Azure Policy**

1. In **Azure Portal**, search for **Policy**.
2. Go to **Definitions**, search for **Require a tag**.
3. Select **Require a tag and its value on resources** → Click **Assign**.
4. Set Scope:
   * **Subscription**: Your subscription
   * **Resource Group**: CST8912
5. Configure:
   * **Assignment Name**: Require Cost Center tag
   * **Policy Enforcement**: Enabled
6. Click **Next** → Set **Tag Name**: Cost Center, **Tag Value**: 000.
7. Click **Review + Create** → **Create**.
8. Verify enforcement: Create a storage account without a tag and confirm failure.

#### **Task 3: Apply Tagging via Azure Policy**

1. In **Azure Portal**, go to **Policy** → **Assignments**.
2. Delete the **Require Cost Center tag** assignment.
3. Click **Assign Policy**, set Scope:
   * **Subscription**: Your subscription
   * **Resource Group**: CST8912
4. Search for **Inherit a tag from resource group**, select it.
5. Configure:
   * **Assignment Name**: Inherit Cost Center tag
   * **Policy Enforcement**: Enabled
6. Set **Tag Name**: Cost Center.
7. Enable **Create a remediation task**.
8. Click **Review + Create** → **Create**.
9. Verify by creating a new storage account and confirming the tag is applied.

#### **Task 4: Configure and Test Resource Locks**

1. Go to your **Resource Group** → **Locks**.
2. Click **Add**, set:
   * **Lock Name**: rg-lock
   * **Lock Type**: Delete
3. Try deleting the resource group; deletion should be denied.

#### **Task 5: Clean Up Resources**

1. In **Azure Portal**, go to **Policy** → **Assignments** → Delete policy assignment.
2. Search for **Storage Accounts**, delete the created storage account.
3. Confirm deletion by entering the storage account name.

**Results**

Task 1 - Create and assign tags via the Azure portal

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Task 2 - Enforce tagging via an Azure policy

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Task 3 - Apply tagging via an Azure policy

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Task 4 - Configure and test resource locks

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Task 5 - Clean up the resources

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