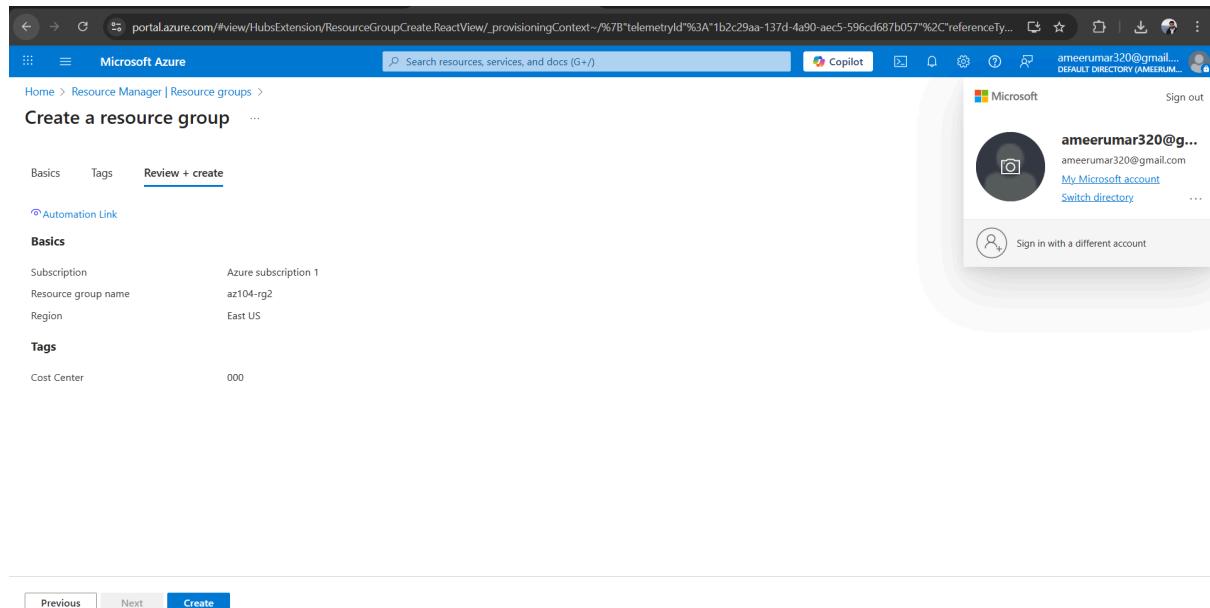


**Assignment: 02**  
**Lab: 02b**  
**Name: Ameer Umar Khan**  
**ID: 2280137**  
**Section: 7B**

### Creating new resource group



Basics   Tags   Review + create

Automation Link

**Basics**

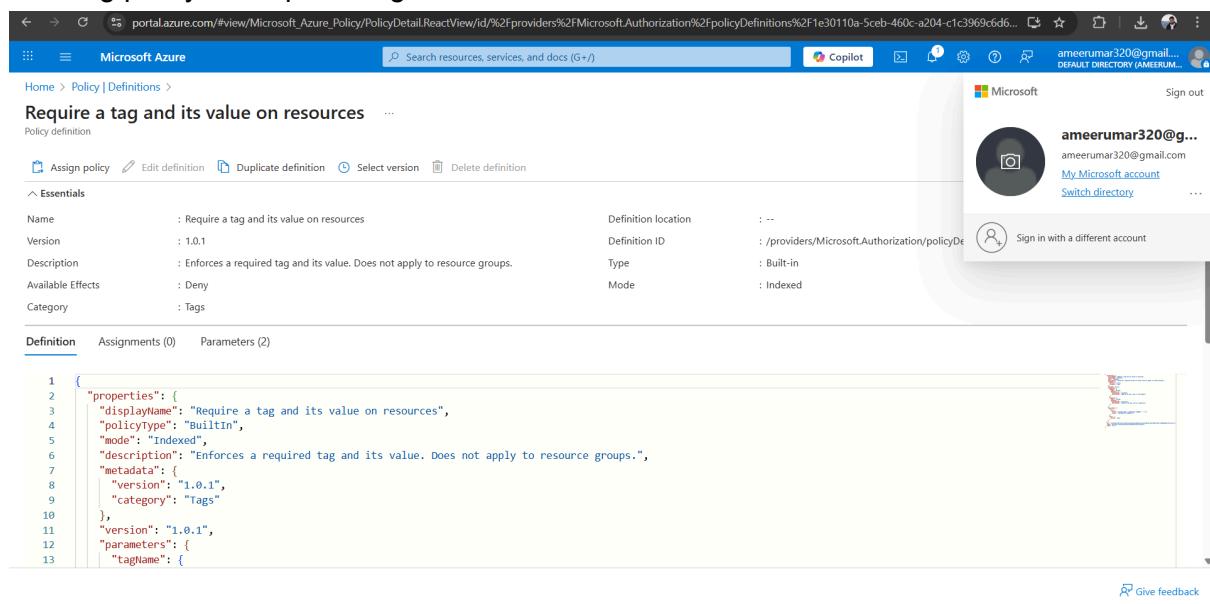
Subscription	Azure subscription 1
Resource group name	az104-rg2
Region	East US

**Tags**

Cost Center	000
-------------	-----

Previous   Next   Create

### Creating policy for required tag and its value



Policy definition

Require a tag and its value on resources

Assign policy   Edit definition   Duplicate definition   Select version   Delete definition

**Essentials**

Name	: Require a tag and its value on resources	Definition location	: --
Version	: 1.0.1	Definition ID	: /providers/Microsoft.Authorization/policyDefinitions/1e30110a-5ceb-460c-a204-c1c3969c6d6...
Description	: Enforces a required tag and its value. Does not apply to resource groups.	Type	: Built-in
Available Effects	: Deny	Mode	: Indexed
Category	: Tags		

**Definition**   Assignments (0)   Parameters (2)

```

1 {
2   "properties": {
3     "displayName": "Require a tag and its value on resources",
4     "policyType": "BuiltIn",
5     "mode": "Indexed",
6     "description": "Enforces a required tag and its value. Does not apply to resource groups.",
7     "metadata": {
8       "version": "1.0.1",
9       "category": "Tags"
10     },
11     "version": "1.0.1",
12     "parameters": {
13       "tagName": {
14         "type": "string"
15       }
16     }
17   }
18 }
```

Give feedback

## Setting the scope to the resource group

The screenshot shows the Azure Policy Create/Edit Assignment React View. The 'Assign policy' step is active. In the 'Scope' section, 'Azure subscription 1' is selected. The 'Resource selectors' section is expanded, showing 'Require a tag and its value on resources'. Other tabs like 'Parameters', 'Remediation', 'Managed identity', and 'Non-compliance messages' are visible but not selected.

## Review and create the policy

The screenshot shows the Azure Policy Create/Edit Assignment React View. The 'Review + create' tab is selected. The 'Basics' section includes fields for 'Assignment name' (Require a tag and its value on resources), 'Version' (1.0.\*), and 'Description' (Require Cost Center tag and its value on all resources in the resource group). The 'Advanced' section shows 'Policy enforcement' set to 'Default' and 'Assigned by' set to 'Ameer Umar'. The 'Parameters' section shows 'Tag Name' as 'Cost Center' and 'Tag Value' as '000'. The 'Remediation' section is collapsed. Navigation buttons 'Previous', 'Next', and 'Create' are at the bottom.

Policy created



## Notifications

X

More events in the activity log →

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### Creating policy assignment succeeded

Creating policy assignment 'Require a tag and its value on resources' in 'Azure subscription 1' was successful. Please note that the assignment takes around 5-15 minutes to take effect.

a few seconds ago

### Resource group created

Creating resource group 'az104-rg2' in subscription 'Azure subscription 1' succeeded.

[Go to resource group](#)

[Pin to dashboard](#)

10 minutes ago

Trying to create a resource (storage account) while violating the policy

A screenshot of the Azure Storage account creation page. The 'Basics' tab is selected. In the 'Subscription' dropdown, 'Azure subscription 1' is chosen. Under 'Resource group', 'az104-rg2' is selected. The 'Storage account name' field contains 'storageaccount2280137'. The 'Region' dropdown shows '(US) East US'. The 'Preferred storage type' dropdown is set to 'Choose preferred storage type'. At the bottom, there are 'Previous', 'Next', and 'Review + create' buttons, along with a 'Give feedback' link.

## Error for violating the policy

The screenshot shows the Azure portal interface for creating a storage account. On the left, the 'Create a storage account' form is displayed with several tabs: Basics, Advanced, Networking, Data protection, Encryption, Tags, and Review + create. The Basics tab is selected, showing configuration details like Subscription (Azure subscription 1), Resource group (az104-rg2), Location (East US), Storage account name (storageaccount2280137), Preferred storage type (Standard), Performance (Read-access geo-redundant storage (RA-GRS)), and Replication (Read-access geo-redundant storage (RA-GRS)). Below the form, there are 'Previous', 'Next', and 'Create' buttons.

On the right, an 'Errors' panel is open, titled 'Errors'. It contains a 'Summary' section with a link to 'Validation failed. View error details'. The main content area shows an error message: 'Resource 'storageaccount2280137' was disallowed by policy. (Code: RequestDisallowedByPolicy, Policy(s): Require a tag and its value on resources Policy Link)'.

## Deleting assignment

The screenshot shows the Azure portal interface for managing policy assignments. The URL in the address bar is [https://portal.azure.com/#view/Microsoft\\_Azure\\_Policy/AssignmentDetailReactView/id/%2Fsubscriptions%2Fc95a83d-2817-48dc-9b2e-0c496f8b0cfb%2Fproviders%2Fmicrosoft.authorization%2FpolicyDefinitions%2F1.0.%2BRequireCostCenterTagAndItsValueOnResources](https://portal.azure.com/#view/Microsoft_Azure_Policy/AssignmentDetailReactView/id/%2Fsubscriptions%2Fc95a83d-2817-48dc-9b2e-0c496f8b0cfb%2Fproviders%2Fmicrosoft.authorization%2FpolicyDefinitions%2F1.0.%2BRequireCostCenterTagAndItsValueOnResources). The page title is 'Policy | Assignments'.

The main content area displays a policy assignment named 'Require a tag and its value on resources'. It shows the following details:

Name	: Require a tag and its value on resources
Definition version	: 1.0.*
Description	: Require Cost Center tag and its value on all resources in the resource group
Assignment ID	: /subscriptions/c95a83d-2817-48dc-9b2e-0c496f8b0cfb/providers/microsoft.auth...
Assigned by	: --
Scope	: Azure subscription 1
Excluded scopes	: --
Definition type	: Policy
Policy enforcement	: Default

Below the assignment details, there are sections for 'Parameters (2)', 'Resource selectors (0)', 'Overrides (0)', and 'Remediation'. A 'Delete assignment' dialog box is open in the center, asking 'Do you want to delete the policy assignment 'Require a tag and its value on resources?' with 'Yes' and 'No' buttons. To the right, a 'Policy assignment parameter reference type' table lists parameters: 'tagName' (Tag Name) and 'tagValue' (Tag Value), both defined as 'User defined parameter'.

## Adding the new definition of inheriting tags from resource groups if not added

The screenshot shows the Azure portal interface for creating a new policy assignment. The top navigation bar includes 'Microsoft Azure', 'Copilot', and user information ('ameerumar320@gmail.com'). The main content area is titled 'Assign policy' under 'All services > Policy | Assignments'. The 'Basics' tab is selected, showing fields for 'Assignment name' (marked as required) and 'Description'. The 'Review + create' button is at the bottom. On the right, the 'Available Definitions' pane lists several policies, with 'inherit' selected. The policy details show it's a 'Tags' policy with 'BuiltIn' status.

## Reviewing policy

The screenshot shows the 'Reviewing policy' step of the policy assignment creation process. The 'Review + create' tab is active. The 'Basics' section displays the policy settings: Scope is 'Azure subscription 1/az104-rg2', Name is 'Inherit the Cost Center tag and its value 000 from the resource group if missing', Version is '1.0.\*', Description is 'same as above', Policy enforcement is 'Default', and Assigned by is 'Ameer Umar'. The 'Advanced' and 'Parameters' sections are partially visible below. The 'Create' button is at the bottom.

## Reviewing policy (rest of it)

The screenshot shows the Azure portal interface for assigning a policy. The top navigation bar includes the Microsoft Azure logo, a search bar, and various icons. On the right, a user profile for 'ameerumar320@gmail...' is displayed with options to sign out, switch directory, and sign in with a different account.

The main content area is titled 'Assign policy' and shows the 'Review + create' tab selected. Under 'Basics', there are sections for 'Resource selectors' (No selectors associated) and 'Overrides' (No overrides associated). The 'Parameters' section shows 'Tag Name' set to 'Cost Center'. In the 'Remediation' section, 'Create a remediation task' is set to 'Yes'. The 'Managed identity' section indicates 'Create a Managed Identity' is 'Yes', 'Type of Managed Identity' is 'System assigned managed identity', and 'System assigned identity location' is 'eastus'. The 'Non-compliance messages' section notes 'No non-compliance messages associated'. At the bottom, there are 'Previous', 'Next', and 'Create' buttons, along with a 'Give feedback' link.

## Creating a storage account again (not entering tags manually)

The screenshot shows the Azure portal interface for creating a storage account. The top navigation bar includes the Microsoft Azure logo, a search bar, and various icons. On the right, a user profile for 'ameerumar320@gmail...' is displayed with options to sign out, switch directory, and sign in with a different account.

The main content area is titled 'Create a storage account' and shows the 'Review + create' tab selected. Under 'Basics', the 'Subscription' is 'Azure subscription 1', 'Resource group' is 'az104-rg2', 'Location' is 'East US', 'Storage account name' is 'storage2280137', 'Preferred storage type' is 'Azure Files', 'Performance' is 'Standard', 'File share billing' is 'Pay-as-you-go file shares', and 'Replication' is 'Locally-redundant storage (LRS)'. The 'Advanced' section includes settings for 'Enable hierarchical namespace', 'Enable SFTP', 'Enable network file system v3', and 'Allow cross-tenant replication', all set to 'Disabled'. At the bottom, there are 'Previous', 'Next', and 'Create' buttons, along with a 'Give feedback' link.

## Validating the inherited tag on storage account

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft logo, a search bar, and a Copilot icon. The user's profile is shown on the right, with the email address ameerumar320@gmail.com and the option to sign out.

The main content area is titled "storage2280137 | Tags". On the left, there is a sidebar with various monitoring and management links. The main panel displays a table for adding tags:

Name	Value
Cost Center	: 000

Below the table, it shows the inheritance of the tag from the storage account itself:

storage2280137 (Storage account)  
Cost Center : 000  
No changes

At the bottom, there are "Apply" and "Discard changes" buttons, along with a keyboard shortcut "Add or remove favorites by pressing Ctrl+Shift+F".

## Adding a resource lock

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft logo, a search bar, and a Copilot icon. The user's profile is shown on the right, with the email address ameerumar320@gmail.com and the option to sign out.

The main content area is titled "az104-rg2 | Locks". On the left, there is a sidebar with various management links. The main panel displays a table for adding locks:

Lock name *	Lock type *
rg-lock	Delete

Below the table, it shows the inheritance of the lock from the resource group itself:

az104-rg2 (Resource group)  
Locks  
rg-lock  
Delete

At the bottom, there are "OK" and "Cancel" buttons, along with a keyboard shortcut "Add or remove favorites by pressing Ctrl+Shift+F".

Error on deleting the resource with the newly created lock



## Notifications



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### 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.



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a few seconds ago