

**Yumaan Mustafa**

**BSSE 7A**

**2280133**

**Lab 9**

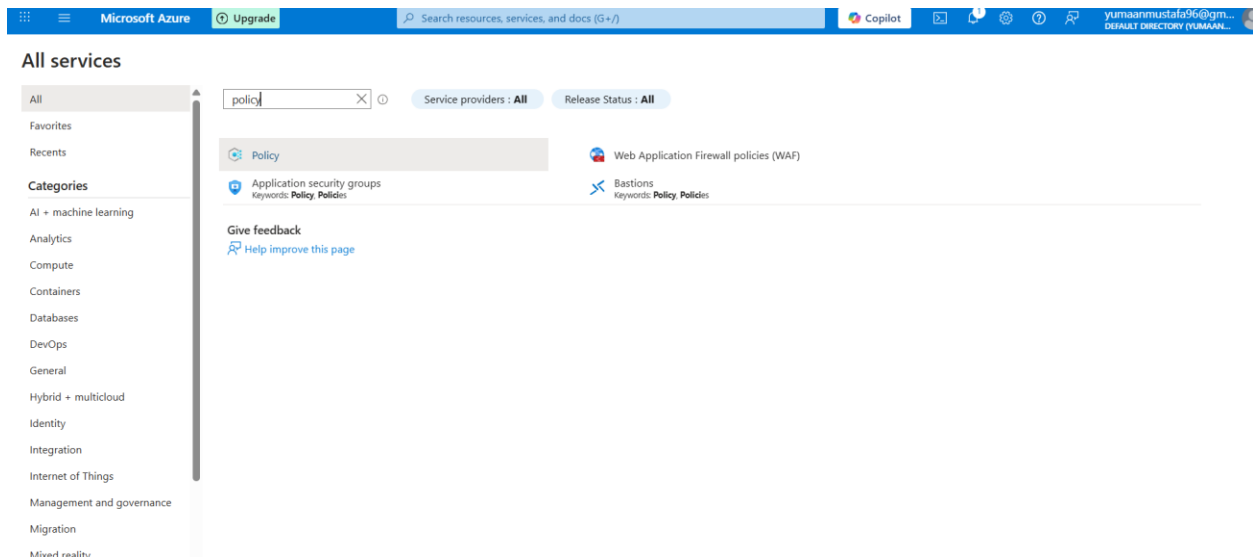
## **09 - Implement resource tagging (5 min)**

In this walkthrough, we will create a policy assignment that requires tagging, created a storage account and test the tagging, view resources with a specified tag, and remove the tagging policy.

### **Task 1: Create a Policy assignment**

In this task, we will configure the Require a tag on resources policy and assign it to our subscription.

1. Sign in to the Azure portal.
2. From the All services blade, search for and select Policy.



3. Scroll down to the Authoring section, click Assignments, and then click Assign Policy from the top of the page.
4. Notice the Scope for our policy will be subscription wide.
5. Under Basics Select the Policy definition ellipsis button (right side of textbox). In the Search box, enter the value tag. A list of related Policies with the word tag will

appear. Scroll down till you find the Require a tag and its value on resources definition, click on it and click Select.

The screenshot shows the 'Assign policy' interface in the Azure portal. The 'Available Definitions' pane is open, displaying a list of policies. The policy 'Require a tag and its value on resources' is selected. The main pane shows the 'Assign policy' form with tabs for Basics, Parameters, Remediation, Non-compliance messages, and Review + create.

Policy name	Latest version (pr...)	Category	Type
Configure App Service app slots to use the latest TL...	1.3.0	App Service	Builtin
Kubernetes cluster container images should not incl...	2.0.1	Kubernetes	Builtin
<input type="checkbox"/> [Preview]: Service Fabric Clusters should be Zone Re...	1.0.0-preview	Resilience	Builtin
Configure Azure Defender for Servers to be disable...	1.0.0	Security Center - Gra...	Builtin
Configure backup on virtual machines without a giv...	9.4.0	Backup	Builtin
[Preview]: Append a tag and its value to resources - ...	1.0.0-preview	BuiltInPolicyTest	Builtin
Certificates should have the specified lifetime action...	2.1.0	Key Vault	Builtin
[Preview]: Azure Cache for Redis should be Zone Re...	1.1.0-preview	Resilience	Builtin
Virtual machines should be migrated to new Azure ...	1.0.0	Compute	Builtin
<input checked="" type="checkbox"/> Require a tag and its value on resources	1.0.1	Tags	Builtin
Configure Function apps to use the latest TLS version	1.3.0	App Service	Builtin
Append a tag and its value to resources	1.0.1	Tags	Builtin
Configure backup on virtual machines with a given t...	9.4.0	Backup	Builtin

6. On the Parameters tab, type in Company : Contoso \*\* for the tag key/value pair name. Click \*\*Review + create, and then Create.

The screenshot shows the 'Assign policy' interface in the Azure portal, specifically the 'Parameters' tab. The 'Tag Name' field is set to 'Company' and the 'Tag Value' field is set to 'Contoso'.

Tag Name	Tag Value
Company	Contoso

Scope

Scope \*

Azure subscription 1

...

[Learn more about setting the scope](#)

Exclusions

Optionally select resources to exclude from the policy assignment.

...

Resource selectors [\(Expand\)](#)

Using resource selectors, you can further refine this assignment's applicability by targeting specific subsets of resources. Expand to learn more.

Basics

Policy definition \*

Require a tag and its value on resources

...

Version (preview) \*

1.\*

...

Overrides [\(Expand\)](#)

Using overrides, you can change the effects or referenced versions of definitions for all or a subset of resources evaluated by this assignment. Expand to learn more.

Assignment name \* ⓘ

Require a tag and its value on resources

Description

7. The Require a tag and its value on resources policy assignment is now in place. When a resource is created, it must include a tag with the Company : Contoso key. Note - you need to wait up to 30 minutes for the Policy to be applied.

## Task 2: Create a storage account to test the required tagging

In this task, we will create storage accounts to test the required tagging.

1. In the Azure Portal, from the All services blade, search for and select Storage accounts, and then click +Add +New +Create.
2. On the Basics tab of the Create storage account blade, fill in the following information (replace xxxx in the name of the storage account with letters and digits such that the name is globally unique). Leave the defaults for everything else. Setting Subscription Resource group Value Use default provided Create new resource group Storage account name storageaccountxxxx Location (US) East US
3. Click Review + create. Note: We are testing to see what happens when the tag is not supplied. Please note, it can take up to 30 minutes for Policies to take effect.
4. You will receive a Validation failed message. Click the Click here to view details message. On the Errors blade, on the Summary tab note the error message stating that resource was disallowed by Policy. Note: If you view the Raw Error tab you will see the specific tag name that is required.

## Create a storage account ...

❌ Validation failed. Required information is missing or not valid.

Basics   Advanced   Networking   Data protection   Encryption   ❌ Tags   Review + create

**Basics**

Subscription	Azure subscription 1
Resource group	Lab9
Location	UAE North
Storage account name	storageaccount331
Preferred storage type	
Performance	Standard
Replication	Locally-redundant storage (LRS)

**Advanced**

Enable hierarchical namespace	Disabled
Enable SFTP	Disabled
Enable network file system v3	Disabled
Allow cross-tenant replication	Disabled
Access tier	Hot

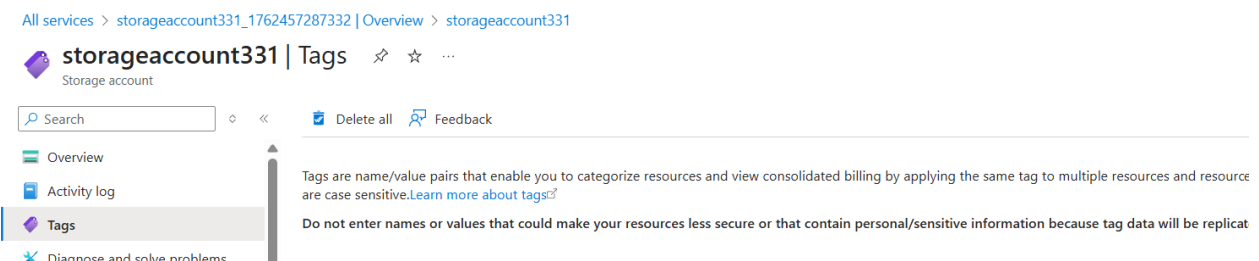
Previous   Next   Create

5. Close the Error pane and click Previous (bottom of the screen). Provide the tagging information. Setting Value Tag name Company:Contoso (may not be in the drop-down list)

6. Click Review + create and verify that the validation was successful. Click Create to deploy the storage account.

### Task 3: View all resources with a specific tag

1. In the Azure Portal, from the All services blade, search for and select Tags.
2. Note all tags and their values. Click the Company : Contoso key/value pair. This will display a blade showing the newly created storage account, as long as you included the tag during its deployment.
3. In the Portal, display the All resources blade.



4. Click Add filter and add the Company tag key as the filter category. With the filter applied, only your storage account will be listed.

## Task 4: Delete the policy assignment

In this task, we will remove the Require a tag on resources policy so it does not affect our future work.

1. In the portal, from the All services blade, search for and select Policy.
2. Click the Require a tag on resources policy entry.
3. Click Delete Assignment in the top menu.
4. Confirm you wish to delete the policy assignment in the Delete assignment dialogue by clicking Yes

Home > Policy | Assignments >

### Require a tag and its value on resources

Policy Assignment

Edit assignment Delete assignment Duplicate assignment View compliance View definition Create exemption Create remediation task

Essentials

Name: Require a tag and its value on resources Scope: Azure subscription 1  
Definition version (preview): 1.\*.\* Excluded scopes: --  
Description: -- Definition type: Policy  
Assignment ID: /subscriptions/a3e17407-645b-4443-990f-e8d6df69025c/providers/microsoft.auth... Policy enforcement: Default  
Assigned by: --

Parameters (2) Resource selectors (0) Overrides (0) Exemptions (0) Remediation (0) Deployed resources Managed Identity

Search by parameter name All types

Parameter ID	Parameter name	Parameter value	Policy assignment parameter reference type
tagName	Tag Name	"Company"	User defined parameter
tagValue	Tag Value	"Contoso"	User defined parameter

Successfully deleted assignment

Successfully deleted 'Require a tag and its value on resources' from 'Azure subscription 1'. Please note that the change takes around 30 minutes to take effect.

5. If you have time, create another resource without a tag to ensure the policy is no longer in effect. Congratulations! In this walkthrough, we created a policy assignment that required tagging, created a resource (storage account) and tested the Policy for tagging, viewed resources with a specified tag, and removed the tagging policy. Note: To avoid additional costs, you can optionally remove this resource group. Search for resource groups, click your resource group, and then

click Delete resource group. Verify the name of the resource group and then click Delete. Monitor the Notifications to see how the delete is proceeding.