

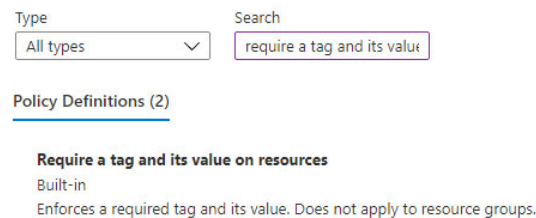
## 16 - Implement resource tagging (5 min)

In this walkthrough, we will create a policy assignment that requires tagging, create 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.

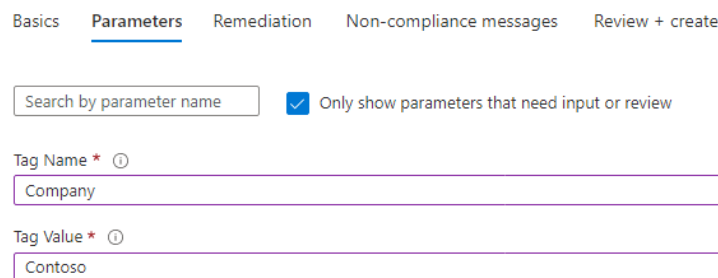
1. Sign in to the [Azure portal](#).
2. From the **All services** blade, search for and select **Policy**.
3. Scroll down to the **Authoring** section, click **Assignments**, and then click **Assign Policy** from the top of the page.
4. Notice the **Scope** for our policy will be subscription wide.
5. 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 'Policy Definitions (2)' section in the Azure portal. It features a 'Type' dropdown set to 'All types' and a 'Search' box containing the text 'require a tag and its value'. Below the search box, a list of policy definitions is shown. The first entry is 'Require a tag and its value on resources', which is a built-in policy that enforces a required tag and its value and does not apply to resource groups.

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

### Assign policy ...



The screenshot shows the 'Assign policy' form in the Azure portal. It has tabs for 'Basics', 'Parameters', 'Remediation', 'Non-compliance messages', and 'Review + create'. The 'Parameters' tab is active. There is a search box for 'Search by parameter name' and a checkbox labeled 'Only show parameters that need input or review' which is checked. Below this, there are two input fields: 'Tag Name' with the value 'Company' and 'Tag Value' with the value 'Contoso'. Both fields have a green checkmark on the right, indicating they are valid.

### 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	Value
Subscription	Use default provided
Resource group	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.

The screenshot shows the 'Create storage account' blade in the Azure Portal. The 'Basics' tab is selected, and the 'Review + create' step is active. A red banner at the top indicates 'Validation failed. Click here to view details. →'. The 'Errors' pane on the right shows the error details: 'Resource 'myrgtaglab' was disallowed by policy. (Code: RequestDisallowedByPolicy)' and 'Policy: Require a tag on resources'. The 'Summary' tab is selected in the 'Errors' pane.

Setting	Value
Subscription	Azure Pass - Sponsorship
Resource group	(New) myRGTags
Location	East US
Storage account name	myrgtaglab
Deployment model	Resource manager
Account kind	StorageV2 (general purpose v2)
Replication	Read-access geo-redundant storage (RA-GRS)
Performance	Standard

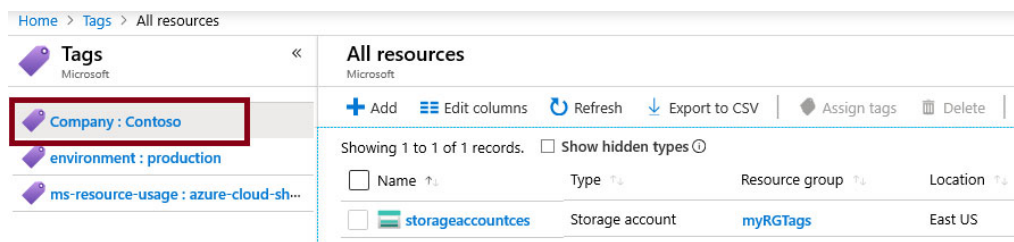
5. Close the **Error** pane and click **Previous** (bottom of the screen). Provide the tagging information.

Setting	Value
Tag name	<b>Company:Contoso</b> (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.

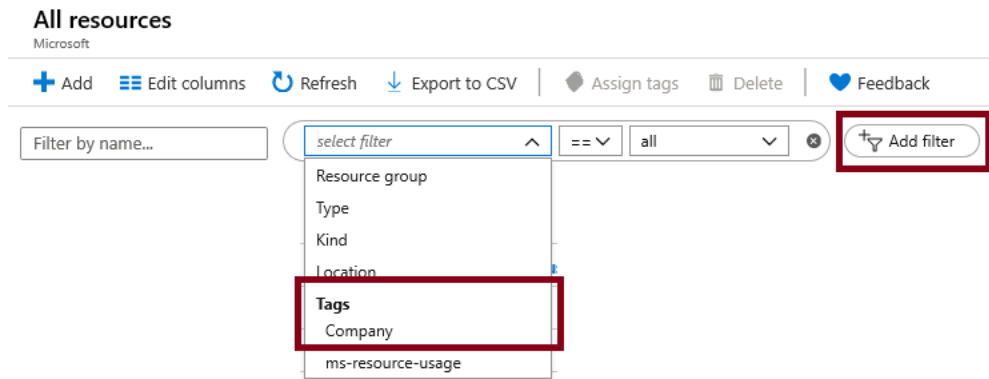
## Task 3: View all resources with a specific tag

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**
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.