Manage Governance via Azure Policy

Task 1: Create and assign tags via the Azure portal.

Resource groups:

Figure 1. Creating a resource group.

Create a 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

Figure 2. Review.

Task 2: Enforce tagging via an Azure Policy.

Policy:

Require a tag and its value on resources ...
Policy definition

📋 Assign policy   ✏️ Edit definition   🗐 Duplicate definition   🕐 Select version (preview)   🗑 Delete definition

∧ Essentials

Name	: Require a tag and its value on resources
Version (preview)	: 1.0.1
Description	: Enforces a required tag and its value. Does not apply to resource groups.
Available Effects	: Deny
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          "metadata": {
16            "displayName": "Tag Name",
17            "description": "Name of the tag, such as 'environment'"
18          }
19        },
20        "tagValue": {
21          "type": "String",
22          "metadata": {
23            "displayName": "Tag Value",
24            "description": "Value of the tag, such as 'production'"
25          }
26        }
27      },
```

Figure 3. Creating a policy.

Assign policy ...

Basics   Parameters   Remediation   Non-compliance messages   Review + create

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) *

    1.0.*

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 Cost Center tag with Default value

Description

    Require Cost Center tag with default value for all resources in the resource group

Policy enforcement ⓘ   🔵 Enabled

Figure 4. Basics.

Assign policy ...

Basics   **Parameters**   Remediation   Non-compliance messages   Review + create

🔍 Search by parameter name   ☑ Only show parameters that need input or review

Tag Name * ⓘ

    Cost Center

Tag Value * ⓘ

    000

Figure 5. Parameters.

Assign policy ...

By default, this assignment will only take effect on newly created resources. Existing resources can be updated via a remediation task after the policy is assigned. For deployIfNotExists policies, the remediation task will deploy the specified template. For modify policies, the remediation task will edit tags on the existing resources.

Managed Identity
Policies with the deployIfNotExists and modify effect types need the ability to deploy resources and edit tags on existing resources respectively. To do this, choose between an existing user assigned managed identity or creating a system assigned managed identity. Learn more about Managed Identity.

Create a Managed Identity ⓘ   ☐

Permissions

> ⓘ This policy does not contain any role definitions. Policies must specify role definitions in order to create the correct role assignments for the managed identity.

Figure 6. Remediation.

Assign policy ...

Basics   Parameters   Remediation   Non-compliance messages   **Review + create**

Basics

Scope	Azure subscription 1
Exclusions	--
Policy definition	Require a tag and its value on resources
Assignment name	Require Cost Center tag with Default value
Version (preview)	1.0.*
Description	Require Cost Center tag with default value for all resources in the resource group
Policy enforcement	Enabled
Assigned by	Vladuslav Kuliavets

Advanced

Resource selectors	No selectors associated with this assignment.
Overrides	No overrides associated with this assignment.

Parameters

Tag Name	Cost Center
Tag Value	000

Remediation

Create a Managed Identity	No managed identity associated with this assignment.

Non-compliance messages

Non-compliance messages	No non-compliance messages associated with this assignment.

Figure 7.Review.

Storage Account:

⊗ Validation failed. View error details →

Basics

Subscription	Azure subscription 1
Resource group	az104-rg2
Location	East US
Storage account name	vladkul53r
Primary service	
Performance	Standard
Replication	Read-access geo-redundant storage (RA-GRS)

Advanced

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

Security

Secure transfer	Enabled
Blob anonymous access	Disabled
Allow storage account key access	Enabled
Default to Microsoft Entra authorization in the Azure portal	Disabled
Minimum TLS version	Version 1.2
Permitted scope for copy operations (preview)	From any storage account

Figure 8. Policy check.

Errors

×

Summary   Raw Error

ERROR DETAILS

Resource 'vladkul53r' was disallowed by policy. (Code: RequestDisallowedByPolicy)

Policy: Require Cost Center tag with Default value

WAS THIS HELPFUL? 👍 👎

Explain with Copilot

Troubleshooting Options

New Support Request

Figure 9. Policy check.

Task 3: Apply tagging via an Azure Policy.

Policy:

Figure 10. Try to delete the assignment.

Figure 11. Create new policy.

Figure 12. Parameters.

Figure 13. Remediation.

Assign policy ···

Basics   Parameters   Remediation   Non-compliance messages   **Review + create**

Basics

Scope	Azure subscription 1
Exclusions	--
Policy definition	Inherit a tag from the resource group if missing
Assignment name	Inherit the Cost Center tag and its value 000 from the resource group if missing
Version (preview)	1.*.*
Description	Inherit the Cost Center tag and its value 000 from the resource group if missing
Policy enforcement	Enabled
Assigned by	Vladuslav Kuliavets

Advanced

Resource selectors	No selectors associated with this assignment.
Overrides	No overrides associated with this assignment.

Parameters

Tag Name	Cost Center

Remediation

Create a Managed Identity	Yes
Type of Managed Identity	System assigned managed identity
System assigned identity location	eastus
Create a remediation task	Yes

Non-compliance messages

Non-compliance messages	No non-compliance messages associated with this assignment.

Previous   Next   Create

Figure 14. Review.

Storage Account:

Create a storage account ...

Basics   Advanced   Networking   Data protection   Encryption   Tags   **Review + creat**

👁 View automation template

Basics

Subscription	Azure subscription 1
Resource group	az104-rg2
Location	East US
Storage account name	vladuskul46fg
Primary service	
Performance	Standard
Replication	Read-access geo-redundant storage (RA-GRS)

Advanced

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

Security

Secure transfer	Enabled
Blob anonymous access	Disabled
Allow storage account key access	Enabled
Default to Microsoft Entra authorization in the Azure portal	Disabled
Minimum TLS version	Version 1.2
Permitted scope for copy operations (preview)	From any storage account

Previous   Next   **Create**

Figure 15. Creating a storage account.

Figure 16. Selected tag.

Task 4: Configure and test resource locks.

Create Locks:

Delete a resource group

The following resource group and all its dependent resources will be permanently deleted.

Resource group to be deleted

az104-rg2

Dependent resources to be deleted (1)
All dependent resources, including hidden types, are shown

Name	Resource type
vladuskul46fg	Storage account

Enter resource group name to confirm deletion *

az104-rg2

Delete   Cancel
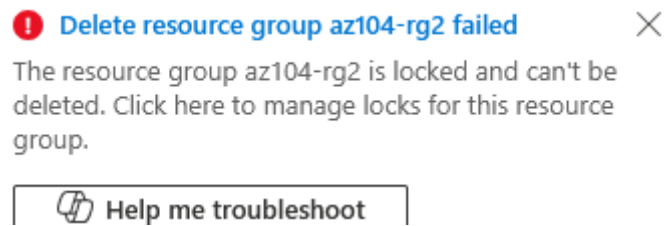
Figure 17. Try to delete the resource group.

❗ 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.

⊘ Help me troubleshoot

Figure 18. Failed.