

Introduction to Cloud Computing

LAB 09

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BSSE 7-B

Task 1: Create a Policy assignment

The screenshot shows the Microsoft Azure Policy Overview page. The top navigation bar includes the Microsoft Azure logo, a search bar, and the user profile 'bsse2280143@szabist.pk'. The left sidebar shows the 'Policy' section with options for Overview, Compliance, Remediation, Events, and Authoring. The main content area is titled 'Policy Overview' and includes a 'Getting started' section. A donut chart displays 'Policy Compliance' with 213 compliant and 15 non-compliant items. Below it, 'Initiative Compliance' shows 0 compliant items. The 'Getting started' section lists recommended assignments: 'Inherit tags from Resource Group', 'Require tag on Resource Group', and 'Not allowed resource types'.

Microsoft Azure | Search resources, services, and docs (G+/)

Policy Overview

Manage and monitor your Azure Policy compliance across your organization

Policy Compliance

213 - Compliant

15 - Non-compliant

228

Initiative Compliance

0 - Compliant

Getting started

Recommended Assignments

- Inherit tags from Resource Group
- Require tag on Resource Group
- Not allowed resource types

The screenshot shows the Microsoft Azure Policy Assignments page. The top navigation bar is the same as the previous screenshot. The left sidebar shows the 'Policy | Assignments' section with options for Overview, Compliance, Remediation, Events, Authoring, Definitions, and Assignments. The main content area is titled 'Policy | Assignments' and includes a search bar and filters. It displays a table of assignments with columns for Assignment name, Scope, and Type. The table lists two assignments: 'Allowed resource deployment regions' and 'ASC Default (subscription: 08961442-0f0c-42c9-828a-eb31cd3c44ff)'. The 'Total Assignments' count is 2, 'Initiative Assignments' count is 1, and 'Policy Assignments' count is 1.

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Policy | Assignments

Assign policy | Assign initiative | Refresh

Search

Filter by name or ID...

Scope: Azure for Students | Definition type: All definition types

Total Assignments: 2

Initiative Assignments: 1

Policy Assignments: 1

Assignment name	Scope	Type
Allowed resource deployment regions	Azure for Students	Policy
ASC Default (subscription: 08961442-0f0c-42c9-828a-eb31cd3c44ff)	Azure for Students	Initiative

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Microsoft Azure

Search resources, services, and docs (G+/I)

Copilot

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DEFAULT DIRECTORY (815622801...)

All services > Policy | Assignments >

Assign policy

BasicsParametersRemediationNon-compliance messagesReview + create

Basics

Scope

Azure for Students

Exclusions

--

Policy definition

Require a tag and its value on resources

Assignment name

Require a tag and its value on resources

Version (preview)

1.0.0

Description

--

Policy enforcement

Default

Assigned by

Hamd Naseem

Advanced

Resource selectors

No selectors associated with this assignment.

Overrides

No overrides associated with this assignment.

Parameters

Tag Name

Company

Tag Value

Contoso

Previous

Next

Create

Give feedback

Microsoft Azure

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Copilot

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All services > Policy

Policy | Assignments

Search

Assign policyAssign initiativeRefresh

Overview

Compliance

Remediation

Events

Authoring

Definitions

Assignments

Machine Configuration

Exemptions

Search

Filter by name or ID...

Scope : Azure for Students

Definition type : All definition types

Total Assignments

3

Initiative Assignments

1

Policy Assignments

2

Edit columns

Export to CSV

Assignment name

Scope

Type

Allowed resource deployment regions

Azure for Students

Policy

ASC Default (subscription: 08961442-0f0c-42c9-828a-eb31cd3c44ff)

Azure for Students

Initiative

Require a tag and its value on resources

Azure for Students

Policy

Give feedback

Notifications

More events in the activity log →

Dismiss all

Creating policy assignment succeeded

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

a few seconds ago

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

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All services > Storage center | Blob Storage >

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 for Students
Resource group	MyRG
Location	Central India
Storage account name	storageaccount098h
Preferred storage type	
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

Previous Next Create Give feedback

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All services > Storage center | Blob Storage >

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review + create

Tags

Name	Value	Resource
Company	Contoso	All resources selected
		All resources selected

Previous Next Review + create Give feedback

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All services >

storageaccount098h_1763218468572 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview

Inputs Outputs Template

Your deployment is complete

Deployment name: storageaccount098h_1763... Start time: 11/15/2023, 7:55:59 PM
Subscription: Azure for Students Correlation ID: Scaeb1dc-2ba4-4686-af50-dca99494a
Resource group: MyRG

Deployment details

Next steps

[Go to resource](#)

Give feedback

[Tell us about your experience with deployment](#)

Deployment succeeded

Deployment 'storageaccount098h_1763218468572' to resource group 'MyRG' was successful.

[Go to resource](#) [Pin to dashboard](#)

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Task 3: View all resources with a specific tag

This screenshot shows the Microsoft Azure portal interface. The left sidebar displays the 'Resource Manager | Tags' section. The main content area is titled 'Resources with tag Company : Contoso'. It includes a search bar, a 'Filter for any field...' dropdown, and several filter buttons: 'Subscription equals all', 'Type equals all', and 'Add filter'. Below these, there are tabs for 'Unsecure resources', 'Recommendations', and 'Changed resources'. A table lists the resources, with columns for Name, Type, Resource group, and Location. The table shows one resource: 'storageaccount098h' of type 'Storage account' in the 'MyRG' resource group, located in 'Central India'. The bottom of the page shows 'Page 1 of 1' and 'Showing 1 to 1 of 1 records'.

Microsoft Azure | Search resources, services, and docs (G+/)

Resource Manager | Tags

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Tag names are case insensitive, but tag values are case sensitive. [Learn more about tags](#)

Filter items...

Tags ↑↓

Company : Contoso

Resources with tag Company : Contoso

Manage view | Refresh | Export to CSV | Open query | Assign tags

Filter for any field...

Subscription equals all | Type equals all | Add filter

0 Unsecure resources | 0 Recommendations | 1 Changed resources

No grouping

Name ↑↓ | Type ↑↓ | Resource group ↑↓ | Location ↑↓

Name	Type	Resource group	Location
storageaccount098h	Storage account	MyRG	Central India

Page 1 of 1 | Showing 1 to 1 of 1 records.

This screenshot shows the Microsoft Azure portal interface. The left sidebar displays the 'Resource Manager | All resources' section. The main content area is titled 'All resources'. It includes a search bar, a 'Filter for any field...' dropdown, and several filter buttons: 'Subscription equals all', 'Resource Group equals all', 'Type equals all', 'Location equals all', and 'Company equals all'. Below these, there are tabs for 'Company equals Contoso' and 'Add filter'. A table lists the resources, with columns for Name, Type, Resource Group, Location, and Subscription. The table shows one resource: 'storageaccount098h' of type 'Storage account' in the 'MyRG' resource group, located in 'Central India', with the subscription 'Azure for Students'. The bottom of the page shows 'Showing 1 - 1 of 1. Display count: auto' and a 'Give feedback' link.

Microsoft Azure | Search resources, services, and docs (G+/)

Resource Manager | All resources

List CLI commands to manage these resources | Create PowerShell script to filter resources by tags

Filter for any field...

Subscription equals all | Resource Group equals all | Type equals all | Location equals all | Company equals all

Company equals Contoso | Add filter

Name	Type	Resource Group	Location	Subscription
storageaccount098h	Storage account	MyRG	Central India	Azure for Students

Showing 1 - 1 of 1. Display count: auto

Give feedback

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Task 4: Delete the policy assignment

Microsoft Azure Search resources, services, and docs (G+/J) Copilot

bsse2280143@szabist.pk
DEFAULT DIRECTORY (BSSE22801...

All services > 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 for Students
Definition version (previous : 1.*.* Excluded scopes : --
Description : --
Assignment ID : /subscriptions/08961442-0f0c-42c9-828a-eb31cc... policy
Assigned by : -- default

Parameters (2) Resource selectors (0) Overrides (0) Exemptions (0)

Search by parameter name All types

Managed Identity

Edit columns

Parameter ID Parameter name Parameter value Policy assignment parameter...

Give feedback



Successfully deleted assignment



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