

INTRODUCTION TO CLOUD COMPUTING

Lab Task 09 (Implement Resource Tagging)

Name: Ariha Zainab

ID: 2280138

Section: SE 7-B

Task 1: Create a Policy assignment

The screenshot shows the Azure Policy Overview page. On the left, a navigation menu includes 'Overview', 'Compliance', 'Remediation', 'Events', 'Authoring' (with 'Definitions' selected), 'Assignments', 'Machine Configuration', and 'Exemptions'. The main area displays 'Policy Compliance' (228 compliant, 15 non-compliant) and 'Initiative Compliance' (1 initiative, 0 compliant, 1 non-compliant). Below these are 'Overall resource compliance' (0%) and 'Pending Remediation' (0 remediable assignments). A sidebar titled 'Getting started' lists four recommended assignments: 'Inherit tags from Resource Group', 'Require tag on Resource Group', 'Not allowed resource types', and 'Audit Windows VMs for security'. The URL in the address bar is <https://portal.azure.com/#>.

The screenshot shows the Azure Policy Assignments page. The navigation menu on the left is identical to the previous screen. The main area shows 'Total Assignments' (2), 'Initiative Assignments' (1), and 'Policy Assignments' (1). A table lists the assignments:

Assignment name	Scope	Type	...
Allowed resource deployment	Azure for Stu...	Policy	...
ASC Default (subscription: 57a)	Azure for Stu...	Initiative	...

Buttons for 'Edit columns' and 'Export to CSV' are at the bottom right. The URL in the address bar is <https://portal.azure.com/#>.

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All services > Policy | Assignments >

Assign policy ...

Basics Parameters Remediation Non-compliance messages Review + 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.*.*
Description	--
Policy enforcement	Default
Assigned by	Ariha Zainab

Advanced

Resource collection: No collections associated with this assignment

Previous Next Create Give feedback

All services > Policy

Policy | Assignments ...

Search Assign policy Assign initiative Refresh

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 Give feedback

Assignment name	Scope	Type
Allowed resource deployment regions	Azure for Stu...	Policy
ASC Default (subscription: 57a8b5a5-89cd-44d7-aaaf-c65ebdf15a43)	Azure for Stu...	Initiative
Require a tag and its value on resources	Azure for Stu...	Policy

Add or remove favorites by pressing Ctrl+Shift+F

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

The screenshot shows the 'Create a storage account' wizard in the Microsoft Azure portal. The 'Tags' tab is selected. A validation error message 'Validation failed. Required information is missing or not valid.' is displayed. The 'Basics' section contains the following configuration:

Subscription	Azure for Students
Resource group	Lab9_RG
Location	East Asia
Storage account name	storageaccountaz09
Preferred storage type	Standard
Performance	Read-access geo-redundant storage (RA-GRS)
Replication	Disabled

The 'Advanced' section shows 'Enable hierarchical namespace' set to 'Disabled'. At the bottom, there are 'Previous', 'Next', and 'Create' buttons.

The screenshot shows the 'Create a storage account' wizard in the Microsoft Azure portal. The 'Tags' tab is selected. Two tags are defined:

Name	Value	Resource
Company	Contoso	All resources selected
		All resources selected

At the bottom, there are 'Previous', 'Next', and 'Review + create' buttons.

The screenshot shows the 'storageaccountaz09' storage account overview page in the Microsoft Azure portal. The left sidebar includes options like Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, Storage browser, Storage Mover, Partner solutions, and Resource visualizer. The main pane displays the following details:

Resource group (move)	: Lab9_RG	Performance	: Standard
Location	: eastasia	Replication	: Read-access geo-redundant storage (RA-GRS)
Primary/Secondary Lo...	: Primary: East Asia, Secondary: Southeast Asia	Account kind	: StorageV2 (general purpose v2)
Subscription (move)	: Azure for Students	Provisioning state	: Succeeded
Subscription ID	: 57a8b5a5-89cd-44d7-aaaf-c65ebdf15a43	Created	: 05/12/2025, 01:46:10
Disk state	: Primary: Available, Secondary: Available		

The 'Properties' tab is selected, showing the following settings:

Hierarchical namespace	: Disabled	Require secure transfer for REST API operations	: Enabled
Default access tier	: Hot	Storage account key access	: Enabled
Blob anonymous access	: Disabled	Minimum TLS version	: Version 1.2

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Task 3: View all resources with a specific tag

The screenshot shows two separate Azure Resource Manager Tag search results. Both results show a single resource: a Storage account named 'storageaccount09' located in 'Lab9_RG' resource group, 'East Asia' location, and 'Azure for Students' subscription. The first search result has a filter 'Type equals all' and a tag 'Company equals Contoso'. The second search result has a filter 'Subscription equals all' and a tag 'Company equals Contoso'. Both results show the same resource details.

Task 4: Delete the policy assignment

The screenshot shows the Azure Policy | Assignments page. A modal dialog titled 'Delete assignment' is open, asking 'Do you want to delete the policy assignment 'Require a tag and its value on resources'?'. Below the dialog are 'Yes' and 'No' buttons. The main table lists one policy assignment: 'tagName': 'Company', 'Scope': 'Azure for Students', and 'Definition type': 'Policy'. The status bar at the bottom right indicates 'Successfully deleted assignment'.