

Resource Governance in Azure



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Overview



Azure Resource Manager locks

Azure Policy



Azure Resource Manager Locks



Azure Resource Locks



Azure resource locks are a feature of Azure Resource Manager

- Deployment and management service for Azure

Azure resource locks allows you to lock a resource to prevent accidental modification or deletion

- This is in addition to Azure role-based access control



RBAC in Azure vs. Entra ID

Entra ID Role-based Access Control

VS

Azure Role-based Access Control

Microsoft Entra roles control access to Microsoft Entra resources such as users, groups, and applications using the Microsoft Graph API

Azure roles control access to Azure resources such as virtual machines or storage using Azure Resource Management



Two Lock Options

CanNotDelete

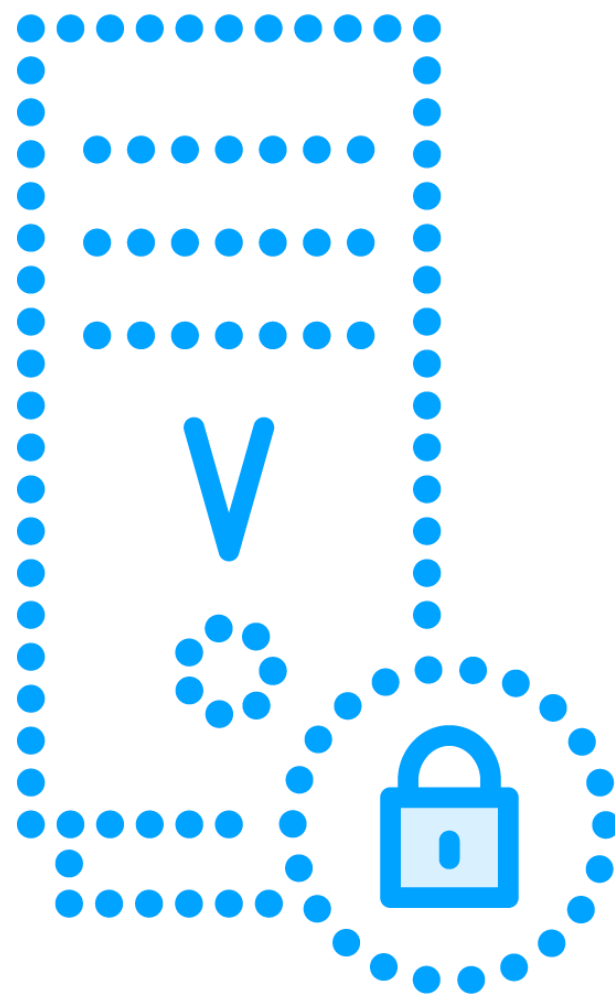
Authorized users can read and modify a resource – but cannot delete it

ReadOnly

Authorized users can read a resource – but cannot delete or update it



How Locks Are Applied



Locks can be applied to

- A subscription
- A resource group
- A resource

When a lock is applied at a parent scope all resources within that scope inherit the lock

- Even future resources

A resource can have more than one lock

- Most restrictive lock takes precedence



Locks Only Apply to Management Actions

A lock does not restrict the resource from operating normally

A SQL Server with a ReadOnly lock

- You cannot modify or delete the server

- You can still create, update, or delete data in the databases on that server



Demo



Azure resource locks

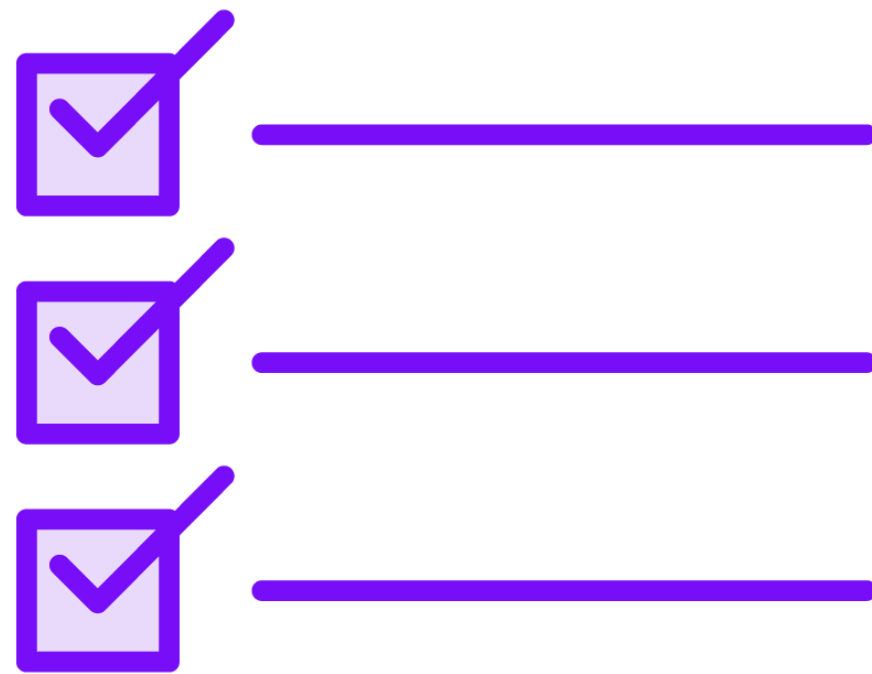




Azure Policy



Azure Policy



Helps enforce organizational standards and assess compliance at scale

A policy is made of business rules

- JSON policy definitions

Multiple business rules can be grouped together to form an initiative

- Makes deployment easier

Can be deployed at multiple levels

- Subscriptions
- Resource groups
- Individual resources



Sample Policies

Azure Backup should
be enabled for virtual
machines

API app should only
be accessible over
HTTPS

Allowed virtual
machine size SKUs

Require a tag on
resources

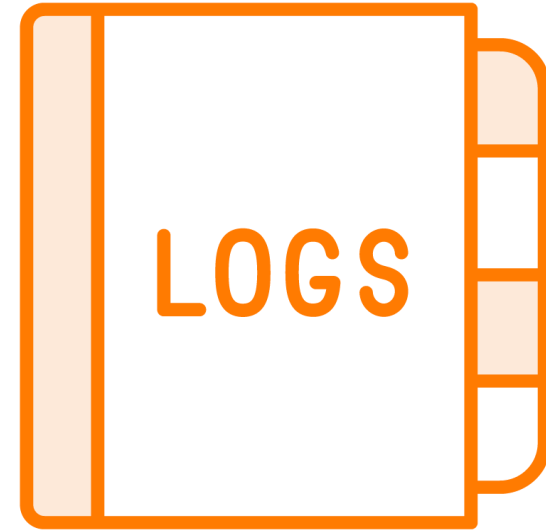
Resource logs in
Logic apps should be
enabled



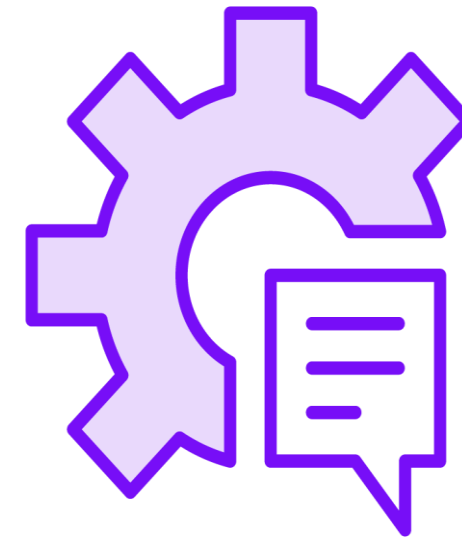
Responses to a Non-compliant Resource



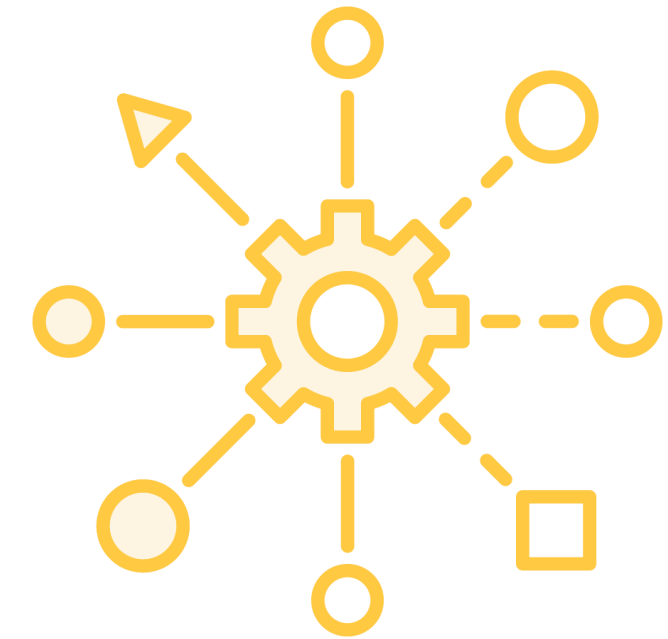
**Deny a
change to a
resource**



**Log the
change to the
resource**



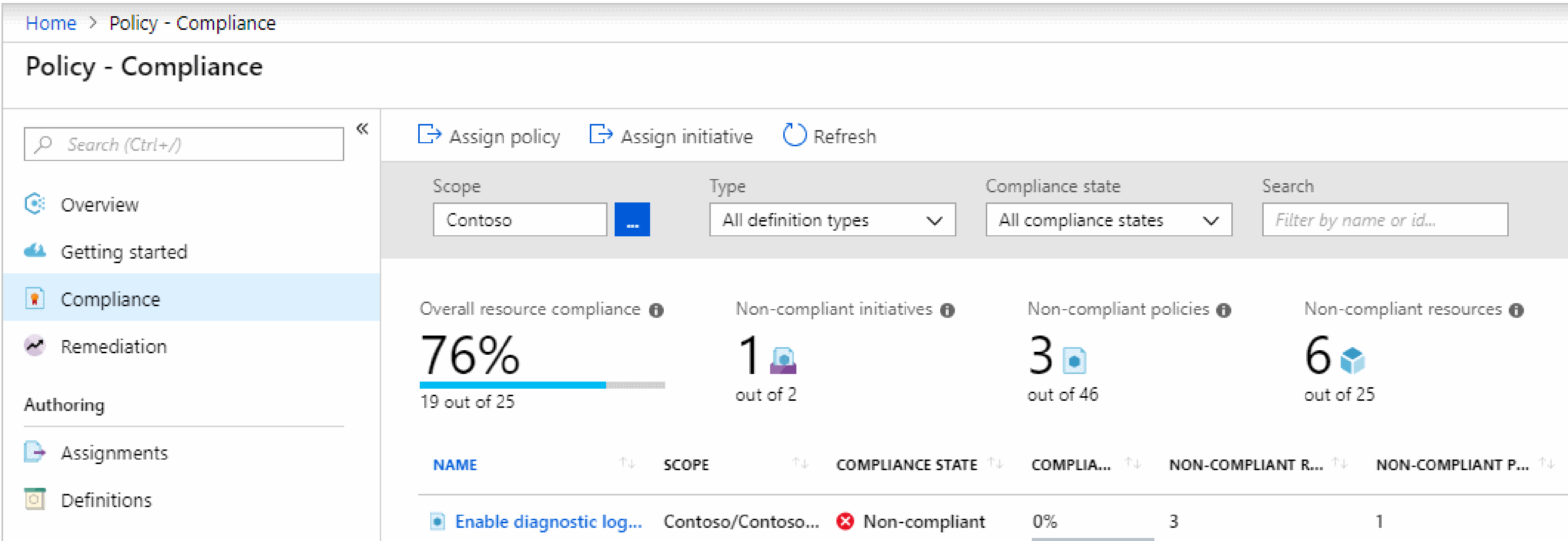
**Alter a
resource
before or after
a change**



**Deploy related
compliant
resources**



Compliance Dashboard



Module Conclusion



Azure Resource Manager locks

- Prevents accidental modification or deletion of resources

Azure Policy

- Enforce organizational standards and assess compliance at scale



Up Next:

Course Conclusion

