

Assign Role-based Access Control



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Introduction



Understanding Microsoft Azure RBAC

Microsoft Azure built-in and custom roles

Assign built-in and custom roles using the CLI tools

Test RBAC role assignments



Understanding Microsoft Azure RBAC



Role-based access control
(RBAC) facilitates Microsoft
Azure delegated resource
administration



Role-based Access Control

Roles organize related resource permissions together

More than 60 built-in roles

Roles vary depending on the specific resource

- E.g. Storage accounts have roles that differ from virtual machine instances

Custom roles can also be created



Role-based Access Control

Roles are applied to a scope

- Management groups
- Subscription
- Resource Group
- Individual resource

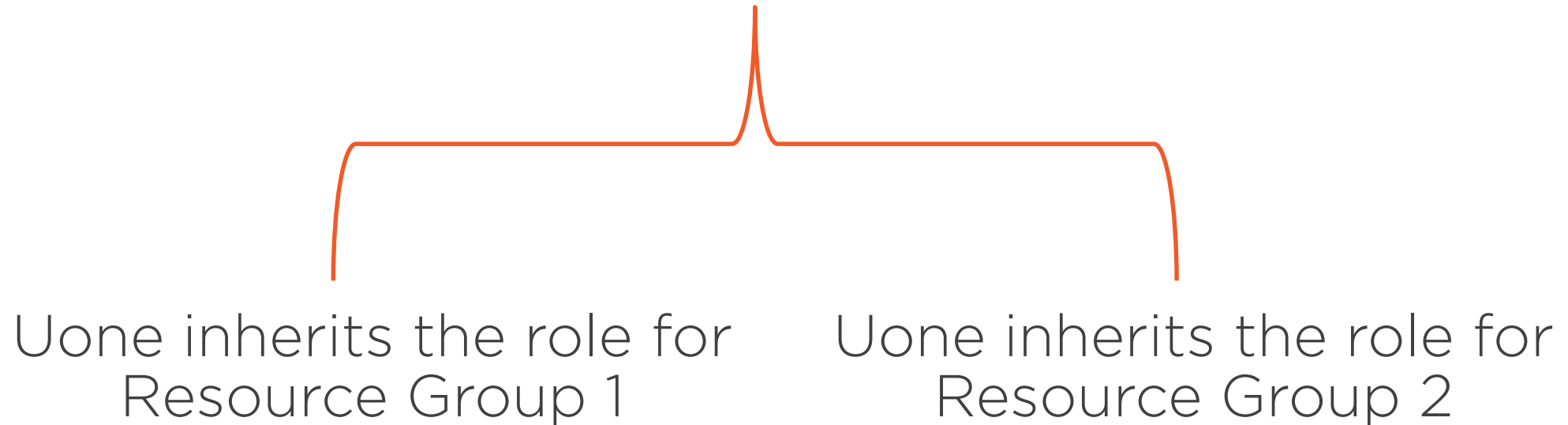
Roles are assigned to

- Users
- Groups
- Service principal



Role Inheritance

A user (uone) is assigned
the Virtual Machine
Contributor role at the
subscription level



Microsoft Azure Built-in and Custom Roles



Microsoft Azure Built-in Roles

Role Name	Description
Owner	Manage resources and resource access
Contributor	Manage resources but not resource access
Reader	Read-only access
Storage Blob Data Reader	Specific to storage accounts
SQL DB Contributor	Manage, but not access, SQL databases
Virtual Machine Contributor	Manage, but not access, virtual machines



Custom Roles

When built-in roles do not satisfy management delegation requirements

Built using

- PowerShell
- CLI
- REST API

Custom roles after creation

- Same drop-down lists with built-in roles



Demo



Assign built-in Microsoft Azure roles



Demo



Create a custom role using Microsoft PowerShell



Demo



Create a custom role using the
Microsoft Azure CLI



Demo



Assign a custom role using the Microsoft Azure portal and verify that it is working



Summary



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Test RBAC role assignments

