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

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
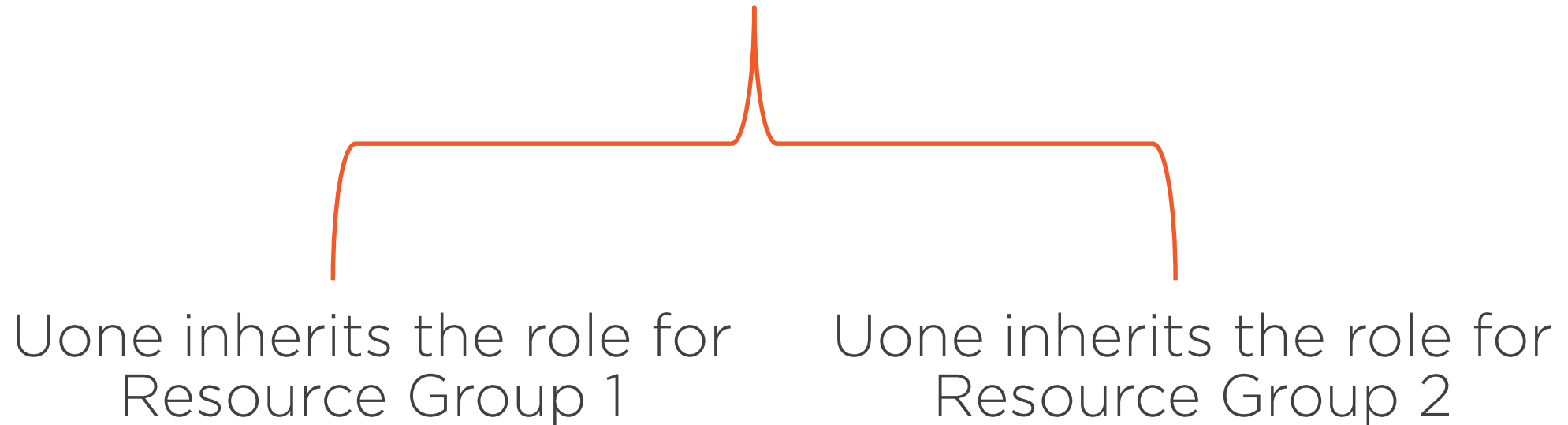
- Individual resource

Roles are assigned to

- Users

- Groups

- Service principal

Role Inheritance

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

Uone inherits the role for Resource Group 1

Uone inherits the role for Resource Group 2

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