

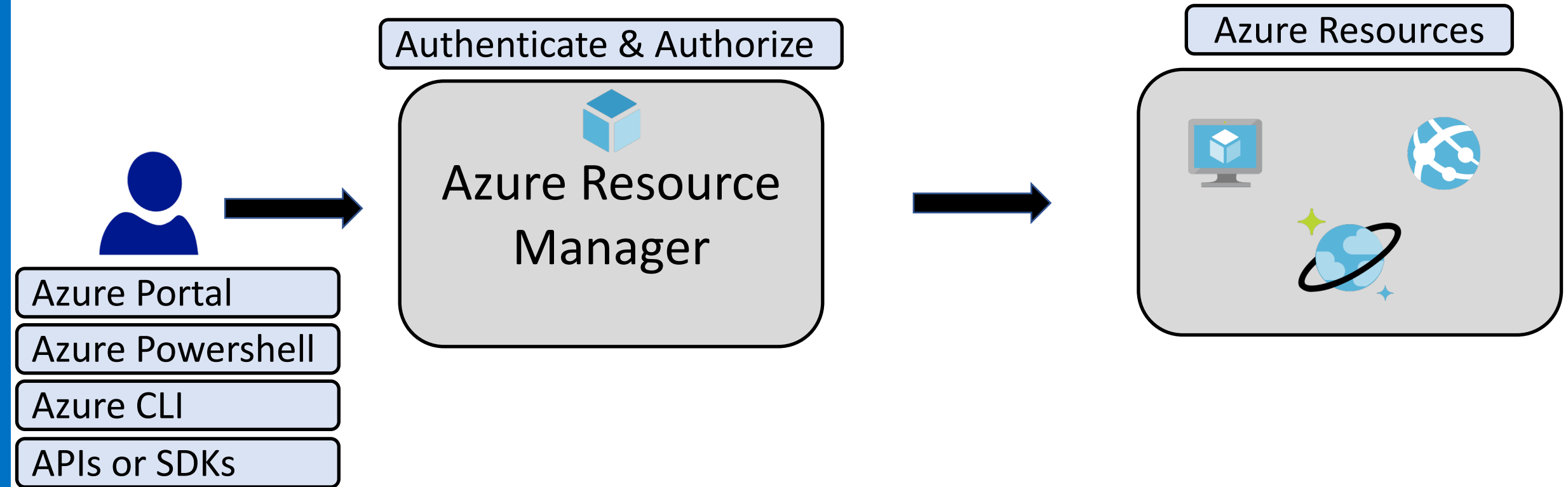
Module Completion & Exam Hints

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Azure Resource Manager and ARM Templates

Azure Resource Manager Overview

- ❑ Azure Resource Manager is the deployment and management service for Azure; it's a management layer that enables you to create, update and delete resources



Azure Resource Manager Templates

- ❑ Declarative syntax
 - ❑ Deploy an entire infrastructure (vNET, VMs, storage, etc.)
- ❑ Deployment Orchestration
 - ❑ Orchestrate the deployment of interdependent resources, so that they are deployed in the correct order
- ❑ Template is first validated, then deployed
- ❑ Create any resource in Azure; supports also integration with CI/CD tools

Azure Template - Create a Storage Account

```
"resources": [  
  {  
    "type": "Microsoft.Storage/storageAccounts",  
    "apiVersion": "2016-01-01",  
    "name": "mystorageaccount",  
    "location": "westus",  
    "sku": {  
      "name": "Standard_LRS"  
    },  
    "kind": "Storage",  
    "properties": {}  
  }  
]
```

Resource provider - Resource

Name

Azure Region

Type of Storage Account - LRS

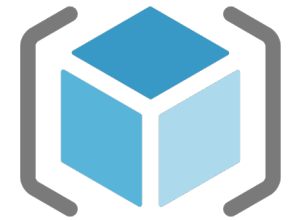
Resource Type - Storage

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Azure Resource Groups

Resource Groups Overview

- ❑ Resource Groups - logical containers for resources deployed on Azure
- ❑ All deployed resources (Azure services) are part of a single resource group, but can be moved between RGs later on
- ❑ Resources in a RG can be deployed in different Azure regions, no restrictions
- ❑ We use RGs to better manage and organize our resources in Azure



Resource Group

Resource Groups – Organizing Principles

- ❑ We can organize resources in many ways:
 - ❑ By environment: RG-Prod, RG-Dev/Ops, RG-Testing
 - ❑ By resource type: RG-VMs, RG-Storage, RG-VNETs
 - ❑ By department: RG-IT, RG-Marketing, RG-HR
 - ❑ By admin type: RG-Owner, RG-Contributor, RG-Reader
 - ❑ By lifecycle: RG-Project1, RG-Project2
- ❑ Takeaway – plan ahead of time and leverage Azure flexibility in your advantage
- ❑ Define a consistent naming convention for RGs' !

Azure Tags

Azure Tags Overview

- ❑ Azure Tags - Tags are name/value pairs of text data that you can apply to resources and resource groups
 - ❑ Example: Name – “Environment”, Value – “Production”
- ❑ You can attach/bind up to 50 tags to a resource
- ❑ Common use cases – cost center, department, environment, scripts, etc.
- ❑ Tagging rules and naming conventions can be enforced throughout your organization with Azure Policies !

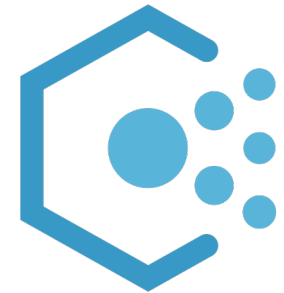


Azure Tags

Azure Policy

Azure Policy Introduction

- ❑ Azure Policy is a service you can use to create, assign and manage policies; establish conventions or rules that resources must comply with
- ❑ Examples:
 - ❑ Create only B1S VMs, Add tag to resource
- ❑ We create a policy or use a built-in one – Policy Definition and apply policy through – Policy Assignment
- ❑ Multiple policies can be grouped together in - Initiatives

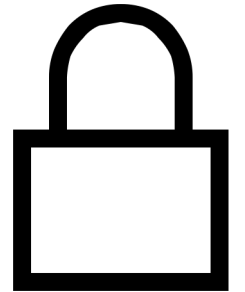


Azure Policy

Azure Locks

Azure Locks Overview

- ❑ Azure Locks – Prevent users in your organization from accidentally deleting or modifying critical resources
- ❑ Two options are available:
 - ❑ Delete – can't delete
 - ❑ Read-only – can't modify or delete
- ❑ Similar to Azure Policies, when you apply Locks at a parent scope, all resources within that scope will inherit the lock
- ❑ Subscription -> Resource Groups -> Resource



Azure Locks

Other Azure Core Services - Quiz



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Thank you