**Microsoft Azure Fundamentals: Managing the Microsoft Azure Hierarchy**

**Azure Management Groups and Subscriptions**

**Azure Hierarchy Governance**

. Management groups - organize subscriptions

. Resource groups - organize cloud resources

**Azure Subscriptions**

* Azure AD tenants - unique Azure AD instances, similar to separate Active Directory domains on-premises
* Subscriptions - linked to Azure AD tenants, are required to create resources

1. Free trial
2. Pay-as-you-go
3. Enterprise agreement (EA)

**Azure Support Plans**

* Basic
* Developer
* Standard
* Professional Direct (ProDirect)

**Management Groups**

* Organize multiple subscriptions in a hierarchy
* Facilitate the application of Azure Policy and Role- Based Access Control (RBAC)
* Tenant root group is the default group
* Nested management groups are supported

**Currently PlayingAzure Resource Groups**

**Resource Groups**

* Organize related cloud resources in an Azure cloud "container"
* Facilitate the application of Azure Policy and RBAC
* Manage identity and access management (IAM) RBAC role assignments
* Track costs and create budgets

**Creating Resource Groups**

* Azure portal
* Azure CLI, PowerShell
* Azure Resource Manager (ARM) template, REST API

**Managing Resource Groups**

* Move resources between resource groups (does not change resource region/location)
* Resource group deletion

**Azure Resource Locks**

* Subscription
* Resource Group
* Individual resource

**Resource Lock Inheritance**

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Automatisch generierte Beschreibung**

**Resource Lock Levels**

Read-only: Resource cannot be updated or deleted

Delete: Resource can be updated, but not deleted

**Azure Data Plane Examples**

. Inserting, updating, and querying databases

. Remotely managing files/configuration in a virtual machine

· Uploading blobs to a storage account

**Resource Locks - Control vs. Data Operations**

* Data plane (data specific to the service or resource), in some cases locks do not apply
* Control plane (resource management) locks do apply

**Deploying Resource Locks**

* Azure portal
* ARM template
* CLI
* PowerShell

**Resource Locking at the Command Line**

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