**Manage subscriptions and governance**

* 1. create and manage resource groups o move resources
  2. o remove RGs
* configure Cost Management

**Implement and manage storage (10-15%)**

**Manage storage accounts**

* • configure network access to storage accounts
* • create and configure storage accounts
* • generate shared access signature
* • manage access keys
* • implement Azure storage replication
* • configure Azure AD Authentication for a storage account

**Manage data in Azure Storage**

* • export from Azure job
* • import into Azure job
* • install and use Azure Storage Explorer
* • copy data by using AZCopy

**Configure Azure files and Azure blob storage**

* • create an Azure file share
* • create and configure Azure File Sync service
* • configure Azure blob storage
* • configure storage tiers for Azure blobs

**Create and configure containers**

* • create and configure Azure Kubernetes Service (AKS)
* • create and configure Azure Container Instances (ACI)
* • NOT: selecting an container solution architecture or product; container registry settings

**Monitor and troubleshoot virtual networking**

* • monitor on-premises connectivity
* • use Network Performance Monitor
* • use Network Watcher
* • troubleshoot external networking
* • troubleshoot virtual network connect

**Monitor resources by using Azure Monitor**

* + • configure and interpret metrics o analyze metrics across subscriptions
  + • configure Log Analytics o implement a Log Analytics workspace
  + o configure diagnostic settings
  + • query and analyze logs o create a query
  1. o save a query to the dashboard
  2. o interpret graphs
  3. o create and test alerts
  4. o create action groups
  5. o view alerts in Azure Monitor
  6. o analyze alerts across subscriptions

• set up alerts and actions

• configure Application Insights

* • NOT: Network monitoring

**Implement cloud infrastructure monitoring**

* • monitor security
  + • monitor performance o configure diagnostic settings on resources
  + o create a performance baseline for resources
  + o monitor for unused resources
  + o monitor performance capacity
  + o visualize diagnostics data using Azure Monitor
  + • monitor health and availability o monitor networking
  + o monitor service health
  + • monitor cost o monitor spend
  + o report on spend
  + • configure advanced logging o implement and configure Azure Monitor insights, including App Insights, Networks, Containers
  1. configure a Log Analytics workspace
  2. o collect alerts and metrics across multiple subscriptions
  3. o view Alerts in Azure Monitor logs
  4. o NOT: create Log Analytics query
* • configure logging for workloads
* • initiate automated responses by using Action Groups
* • configure and manage advanced alerts

**Implement and manage Azure governance solutions**

* • create and manage hierarchical structure that contains management groups, subscriptions and resource groups
* • assign RBAC roles
* • create a custom RBAC role
* • configure access to Azure resources by assigning roles
* • configure management access to Azure
* • interpret effective permissions
* • set up and perform an access review
* • implement and configure an Azure Policy
* • implement and configure an Azure Blueprint

**Manage security for applications**

* • implement and configure KeyVault
* • implement and configure Azure AD Managed Identities
* • register and manage applications in Azure AD

**Implement container-based applications**

* • create a container image
* • configure Azure Kubernetes Service
* • publish and automate image deployment to the Azure Container Registry
  1. • publish a solution on an Azure Container Instance o NOT: Service Fabric