**AZURE MIGRATE**

**Introduction to Azure Migrate**

* **Purpose:** Overview of Azure Migrate
* **What is Azure Migrate?**: A suite of tools for assessing, planning, and migrating on-premises workloads to Azure.
* **Why Migrate to Azure?**: Benefits of cloud migration, such as scalability, cost savings, and modern infrastructure.

**Key Features:**

* **Discovery and Dependency Mapping: Automatically discover on-premises resources and map their dependencies, which helps in planning the migration strategy.**
* **Assessment Reports: Detailed reports on how workloads will perform in Azure, cost analysis, and recommendations for right-sizing.**
* **Migration Tools Integration: Seamlessly integrates with various Azure services and tools to streamline the migration process.**
* **Cost Management: Provides cost estimates and budget planning for the migration process and ongoing Azure usage.**
* **Support for Hybrid Environments: Supports hybrid migration scenarios where some resources might remain on-premises while others move to the cloud**

**Discovery and Assessment**

* **Azure Migrate: Discovery and Assessment**
  + Automatically discover on-premises resources
  + Map dependencies and assess compatibility
* **Azure Migrate: Server Assessment**
  + Evaluate readiness for Azure
  + Cost estimation and right-sizing recommendations

**Migration Tools Overview**

* **Azure Migrate: Server Migration**
  + Migrates physical and virtual servers to Azure
  + Supports both lift-and-shift and re-platforming
* **Azure Database Migration Service**
  + Migrate databases with minimal downtime
  + Supports various database engines

**Specialized Migration Tools**

* **Azure App Service Migration Assistant**
  + Migrates web apps to Azure App Service
* **Data Box**
  + Physical device for large data transfers
  + Useful for high-volume data migration when network transfer isn’t feasible

**Benefits of Azure Migrate**

* **Streamlined Migration Process: Simplifies the process of moving applications, databases, and other resources to Azure.**
* **Reduced Downtime: Tools like Azure Database Migration Service help minimize downtime during the migration of databases.**
* **Cost Efficiency: Provides cost assessments and helps in optimizing cloud resources to fit your budget.**