

Azure FinOps Cloud Cost Management

Duration: 2 days (8hrs/day)

Prerequisites:

- Understand the basics of IT
- Understand the basics of Cloud Computing
- Desire to save & make money in the cloud

Course Objective: This comprehensive course will help you implement FinOps principles & cloud operating models that lead to cultural change & sustainable cloud savings. Create visibility into distributed cloud spending with advanced data analytics & reporting. Apply Cost allocation strategies to create accountability for cloud spend with Showback & Chargeback.

Demonstration Requirement: Participant Azure Trial Account Required

Module 1 – Introduction

Introduction to Cloud Pricing

Importance of Pricing in Cloud VS. Pricing in On Premise Data Center

Why FinOps is important

Module 2 – Pricing

Cloud Pricing Basics

Cloud Pricing Complexity

Module 3 – FinOps and CCOE

Cloud Operating Model

Cloud Center of Excellence (CCOE)

FinOps

Showback

Chargeback

Module 4 – Azure Resources

Resource Hierarchies

Tags

Shared Costs

Module 5 – Cloud Optimization Strategies

Design Cloud Architecture with Cost in Mind

Standards, Decision Trees, Playbooks

Migration Strategy Costs (5 R's)

PaaS vs. IaaS vs. SaaS

Serverless

Autoscaling

Spot Instances

Azure Reservations

Azure Savings Plans

Reservations vs. Savings Plans

Hybrid Benefit

Dev/Test Pricing

Policy Guardrails

Module 6 – Azure tools and Resources

Service Pricing Research

Azure Pricing Calculator

TCO Calculator

Cost Management Data

Cost Data Exports

Cost Analysis - Overview & Custom Views

Cost Analysis - Pre-Built Views

Budgets & Alerts

Power BI Template App

Power BI Connector

Advisor

Cost Allocation for Cloud Financial Management

Anomaly Detection & Alerting

Azure Monitor

Azure Migrate

Module 7 – Azure Cost optimizations (VMs/Servers)

Virtual Machines - Summary & Pricing

Virtual Machines - Instance Selection, Families, Series, Naming, etc.

Virtual Machines - Cost Example Suboptimal VM Family

Virtual Machines - Cost Optimization Ultimate List

Module 8 – Azure Cost optimizations (Storage)

Storage - Summary & Basics

Storage - The Right Storage Service

Storage - The Right Redundancy & Performance

Storage - The Right Access Tier

Storage - Post-Deployment Optimizations

Storage - Cost Optimization Ultimate List

Module 9 – Azure Cost optimizations (Database)

Database - Summary & Basics

Database - Type

Database - Service Model

Database - Architecture

Database - Cost Optimization Ultimate List

Module 10 – Post Deployment tactics

Intro - Optimization Tactics Post-Deployment

Rightsize Underutilized Resources

Orphaned Resources

Sandbox Cleanup, Expiry, Auto-delete

Compute Scheduling

Storage Lifecycle Management