

FinOps

FinOps

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FinOps

FinOps - Version: 1

24 days Course

Description:

Intended audience:

Prerequisites:

Objectives:

Topics:

Week 1: Introduction to FinOps

- Lecture 1: Introduction to FinOps
 - ^o Definition of FinOps and its role in financial operations
 - ^o Key concepts and terminology of FinOpso.
 - º FinOps vs. DevOps
- Lecture 2: Overview of financial management and accounting principles

Week 2: Cloud Financial Management Fundamentals

• Lecture 1: Cloud Infrastructure and Cost Optimization



- ^o Introduction to cloud computing and its benefits
- ^o Understanding cloud infrastructure and pricing
- º models: IaaS, PaaS, SaaS
- ^o Strategies for cost optimization: rightsizing,
- ${}^{\underline{o}}$ reserved instances, spot instances, auto-scaling
- Lecture 2: Cloud Financial Managemen
 - ^o Cloud financial management tools and techniques: AWS Cost and Usage Report, Azure
 - Cost Management, Google Cloud Billing
 - ${}^{\underline{o}}$ Cloud accounting and reporting: reconciling
 - ^o Cloud costs with accounting data
 - ^o Cloud cost optimization best practices: monitoring and analyzing cloud costs, creating cost optimization policies
- Lab: Analyzing and optimizing cloud costs using
- AWS Cost Explorer and Azure Cost Management

Week 3: Cloud Infrastructure and Cost Optimization

- Lecture 1: AWS Cloud Infrastructure and Cost Optimization
 - ^o Introduction to AWS cloud infrastructure and services
 - ^o Understanding EC2, RDS, S3, DynamoDB, Data Transfer
 - ^o AWS cost optimization techniques
- Lecture 2: Azure Cloud Infrastructure and Cost Optimization
 - ^o Introduction to Azure cloud infrastructure and services
 - ^o Understanding Virtual Machines, Azure SQL, Azure Storage, Azure Cosmos DB, Data Transfer
 - ^o Azure cost optimization techniques
 - ^o Lab: Optimizing cloud costs on AWS and Azure

Week 4: Cloud Financial Management Tools



- Lecture 1: AWS Cost Management and Optimization
 - ^o Overview of AWS Cost Management and Optimization tools
 - ^o AWS Cost Explorer and AWS Trusted Advisor
 - ^o AWS Budgets and AWS Cost Anomaly Detection
- Lecture 2: Google Cloud Financial Management and Optimization
 - ^o Overview of Google Cloud Financial Management and Optimization tools
 - ^o Google Cloud Billing and Google Cloud Pricing Calculator
 - ^o Google Cloud Cost Management and Big Query analysis
- Lab: Analyzing and optimizing cloud costs using AWS Cost Explorer and Google Cloud Billing

Week 5: FinOps in Practice

- Lecture 1: Case Studies in FinOps
 - ^o Case studies and examples of successful FinOps implementation
 - ^o Best practices for implementing FinOps
 - ^o Real-world challenges and solutions in FinOps
- Lecture 2: Metrics and KPIs for FinOp
 - ^o FinOps metrics and KPIs
 - ^o Financial modeling and forecasting for FinOps
 - ^o Measuring the ROI of FinOps
- Lab: Applying FinOps best practices to a real-world scenario

Week 6: FinOps Certification Preparation

- Lecture 1: AWS Certification Practitioner
 - ^o Overview of AWS Certification Practitioner certification
 - ^o Exam format, content, and structure
 - ^o Study tips and resources
- Lecture 2: Practice exams



Week 7: Multi-Cloud Strategies

- Lecture 1: Introduction to Multi-Cloud Strategie
 - ^o Advantages and Disadvantages of Multi-Cloud
 - ^o Hybrid Cloud, Multi-Cloud, and Edge Computing
 - ^o Multi-Cloud Management and Governance
- Lecture 2: Introduction to Kubernetes
 - ^o What is Kubernetes, and why is it important?
 - ^o Kubernetes architecture and components
 - ^o Kubernetes cost optimization techniques

Week 8: FinOps Automation & Course Summary

- Lecture 1: Introduction to FinOps Automation
 - ^o Defining FinOps Automation
 - ^o Benefits of FinOps Automation
 - ^o Overview of Tools and Technologies for FinOps Automation
- Lecture 2: Course Summary
 - ^o Overview of the key concepts and topics covered in the course
 - ^o Review of best practices for cloud cost optimization and FinOps
 - ^o Q&A and open discussion about the course and cloud cost optimization