

MICROSOFT AZURE CODE2UTF('8211',0) CONCEPTION DCODE2UTF('8217',0)ARCHITECTURES CODE STAGE : AZ304

OBJECTIFS

Connaître les composants de l'architecture. Créer et déployer les modèles ARM. Comparer des infras variées, serverless, des Bdd et des services de communication tels que les AppServices, les paramètres de montée en charge des machines virtuelles, Azure Cosmos DB, les Bdd SQL. Incorporer des services variés de la plate-forme Azure dans une solution complète. Sécuriser, surveiller et sauvegarder des solutions déployées dans Azure, créer des solutions automatisées DevOps

DURÉE

4 jours

PUBLIC

Personnes expérimentées dans la création de l'infrastructure et des applications sur la plate-forme Microsoft Azure

PRÉ-REQUIS

Il est recommandé d'avoir suivi la formation « Microsoft Azure – Technologies pour les architectes » (AZ300, AZ303) ou de disposer des connaissances équivalentes

PROGRAMME

1: Design for Cost Optimization

In this module, you will learn how to optimize costs from recommendations, breakdown costs by Azure Service, and download and review usage details. 01-View

2: Design a Solution for Logging and Monitoring

In this module, you will learn about Azure Monitor, Azure Application Insights, and Azure Sentinel. You will be able to monitor Azure Resources with Azure Monitor and

3: Design Authentication

In this module, you will learn to implement Conditional Access and Azure Multi-Factor Authentication and also be

able to recommend an Authentication Methodology for

4: Design Authorization

In this module, you will learn how to provide Identities to services and understand the hierarchy of Management Groups and Subscriptions.

5: Design Governance

In this module, you will learn apply an Azure Policy, Identify non-compliant resources, and manage tag governance with Azure Policy.

6: Design Security for Applications

In this module, you will understand Azure Key Vault availability and redundancy, managed Identities for Azure resources. Also, learn about system-assigned Managed Identity and Azure VMs.

7: Design a Solution for Databases

In this module, you will be able to recommend the appropriate data store and recommend Azure SQL Database and Azure SQL Managed Instance Service tiers.

8: Design Data Integration

In this module, you will learn about data flows using Azure Data Factory and Azure Synapse Analytics architecture.

9: Select an Appropriate Storage Account

In this module, you will learn about recommend a design a strategy for using tiered storage and manage tiered Storage using Azure tools.

10: Design a Solution for Backup and Recovery

In this module, you will learn about solutions for site recovery capacity and site failover and failback. You will be able to recommend solutions for recovery in different regions.

11: Design for High Availability

In this module, you will learn about solutions for application and workload redundancy, including compute, database, and storage.

12: Design a Compute Solution

In this module, you will learn about the appropriate compute technologies, including virtual machines, App Services, Service Fabric, Azure Functions, Windows Virtual Desktop, and containers.

Recommend the appropriate AKS and ACI and the configurations

13: Design a Network Solution

In this module, you will learn about solutions for network addressing and name resolution, network provisioning, and network security.

14: Design an Application Architecture

In this module, you will learn about solution for deployment of applications including ARM templates, Logic Apps, or Azure Functions. You will also learn about microservices architecture including Event Grid, Event Hubs, Service Bus, Storage Queues, Logic Apps, Azure Functions, and webhooks.

15: Design Migrations

In this module, you will learn about recommend a solution for migrating applications and VMs and a solution for migration of databases

