

# Azure : Technologies pour les architectes (AZ-303)

Référence : MSAZ303

Durée : 5 jours

Certification : 70-303

Code CPF : RS3990

## CONNAISSANCES PREALABLES

- 1-Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks..
- 2-Understanding of network configuration, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies..
- 3-Understanding of Active Directory concepts, including domains, forests, domain controllers, replication, Kerberos protocol, and Lightweight Directory Access Protocol (LDAP)..
- 4-Understanding of resilience and disaster recovery, including backup and restore operations..

## PROFIL DES STAGIAIRES

- IT Professionals with expertise in designing and implementing solutions running on Microsoft Azure.

## OBJECTIFS

- Secure identities with Azure Active Directory and users and groups.
- Implement identity solutions spanning on-premises and cloud-based capabilities.
- Apply monitoring solutions for collecting, combining, and analyzing data from different sources.
- Manage subscriptions, accounts, Azure policies, and Role-Based Access Control.
- Administer Azure using the Resource Manager, Azure portal, Cloud Shell, and CLI.
- Configure intersite connectivity solutions like VNet Peering, and virtual network gateways.
- Administer Azure App Service, Azure Container Instances, and Kubernetes.

## METHODES PEDAGOGIQUES

- Mise à disposition d'un poste de travail par stagiaire
- Remise d'une documentation pédagogique papier ou numérique pendant le stage
- La formation est constituée d'apports théoriques, d'exercices pratiques, de réflexions et de retours d'expérience
- Le suivi de cette formation donne lieu à la signature d'une feuille d'émargement

## FORMATEUR

Consultant-Formateur expert Azure

## CERTIFICATION PREPAREE

Azure Solutions Architect Expert. Pour en savoir plus sur cette certification, [cliquez ici](#) et accédez aux informations complètes fournies par France Compétences

## METHODE D'EVALUATION DES ACQUIS

- Auto-évaluation des acquis par le stagiaire via un questionnaire
- Attestation de fin de stage adressée avec la facture

## CONTENU DU COURS

### Implement VMs for Windows and Linux

- Select Virtual Machine Size
- Configure High Availability
- Implement Azure Dedicated Hosts
- Deploy and Configure Scale Sets
- Configure Azure Disk Encryption

### Automate Deployment and Configuration of Resources

- Azure Resource Manager Templates

- Save a Template for a VM
- Evaluate Location of New Resources
- Configure a Virtual Hard Disk Template
- Deploy from a Template
- Create and Execute an Automation Runbook

### Implement Virtual Networking

- Virtual Network Peering
- Implement VNet Peering

## Implement Load Balancing and Network Security

- Implement Azure Load Balancer
- Implement an Application Gateway
- Understand Web Application Firewall
- Implement Azure Firewall
- Implement Azure Front Door
- Implementing Azure Traffic Manager
- Implement Network Security Groups and Application Security Groups
- Implement Azure Bastion

## Implement Storage Accounts

- Storage Accounts
- Blob Storage
- Storage Security
- Managing Storage
- Accessing Blobs and Queues using AAD
- Configure Azure Storage Firewalls and Virtual Networks

## Implement Azure Active Directory

- Overview of Azure Active Directory
- Users and Groups
- Domains and Custom Domains
- Azure AD Identity Protection
- Implement Conditional Access
- Configure Fraud Alerts for MFA
- Implement Bypass Options
- Configure Trusted IPs
- Configure Guest Users in Azure AD
- Manage Multiple Directories

## Implement and Manage Azure Governance

- Create Management Groups, Subscriptions, and Resource Groups
- Overview of Role-Based Access Control (RBAC)
- Role-Based Access Control (RBAC) Roles
- Azure AD Access Reviews
- Implement and Configure an Azure Policy
- Azure Blueprints

## Implement and Manage Hybrid Identities

- Install and Configure Azure AD Connect
- Configure Password Sync and Password Writeback
- Configure Azure AD Connect Health

## Manage Workloads in Azure

- Migrate Workloads using Azure Migrate
- VMware - Agentless Migration
- VMware - Agent-Based Migration
- Implement Azure Backup
- Azure to Azure Site Recovery
- Implement Azure Update Management

## Implement Cloud Infrastructure Monitoring

- Azure Infrastructure Security Monitoring
- Azure Monitor
- Azure Workbooks
- Azure Alerts
- Log Analytics
- Network Watcher
- Azure Service Health
- Monitor Azure Costs
- Azure Application Insights
- Unified Monitoring in Azure

## Manage Security for Applications

- Azure Key Vault
- Azure Managed Identity

## Implement an Application Infrastructure

- Create and Configure Azure App Service
- Create an App Service Web App for Containers
- Create and Configure an App Service Plan
- Configure Networking for an App Service
- Create and Manage Deployment Slots
- Implement Logic Apps
- Implement Azure Functions

## Implement Container-Based Applications

- Azure Container Instances
- Configure Azure Kubernetes Service

## Implement NoSQL Databases

- Configure Storage Account Tables
- Select Appropriate CosmosDB APIs

## Implement Azure SQL Databases

- Configure Azure SQL Database Settings
- Implement Azure SQL Database Managed Instances
- High-Availability and Azure SQL Database