



## **AZ-104: Microsoft Azure Administrator**

[www.cognixia.com](http://www.cognixia.com)

# About Cognixia

Cognixia- A Digital Workforce Solutions Company is dedicated to delivering exceptional trainings and certifications in digital technologies. Founded in 2014, we provide interactive, customized training courses to individuals and organizations alike, and have served more than 130,000 professionals across 45 countries worldwide.

Our team of more than 7000 industry experts facilitate more than 450 comprehensive digital technologies courses, along with state-of-the-art infrastructure, to deliver the best learning experience for everyone. Our comprehensive series of instructor-led online trainings, classroom trainings and on-demand self-paced online trainings cover a wide array of specialty areas, including all of the following:

- IoT
- Big Data
- Cloud Computing
- Cyber Security
- Machine Learning
- AI & Deep Learning
- Blockchain Technologies
- DevOps

Cognixia is ranked amongst the top ve Ā emerging technologies training companies by various prestigious bodies. We're also RedHat Enterprise Partner, Microsoft Silver Learning Partner and an authorized training partner for ITIL, Automation Anywhere and ISC2.



# OUR AWARDS & AFFILIATIONS

 **Best Workplace Amongst Emerging Enterprises** Awarded By  
**Great Indian Workplace Awards – 2018**  
Mumbai, India



 **Best Training Provider of the Year**  
Awarded By  
**The Golden Globe Tiger Awards – 2018**  
Kuala Lumpur, Malaysia



**World HRD Congress** has awarded  
for Excellence in Training (Asia)



  **WORLD HRD CONGRESS**  
Cognixia is awarded as  
Training Company of the Year, 2018



  **ISO 9001:2015 CERTIFIED**  
ISO 9001:2015 Certified  
Quality Management System



  **ISO/IEC 27001:2013 CERTIFIED**  
ISO/IEC 27001:2013 Certified  
Information Security Management System



  **AFRICAC**  
Best Emerging Technology Training Organization  
at the Middle East Training &  
Development Leadership Awards 2018



 **TOP 5 CLOUD TRAINING INSTITUTIONS INDIA 2016**  
 **HIGHER EDUCATION REVIEW**




 **TOP 5 Big Data TRAINING INSTITUTES 2017**  
 **siliconindia**



 **TOP 10 IoT TRAINING INSTITUTES PROMISING IN INDIA 2017**  
 **HIGHER EDUCATION REVIEW**



 Top 10 IoT Training Companies for the  
Second consecutive year.  
 **2017 IoT India MAGAZINE**



  **siliconindia** BEST TRAINING PROVIDER  
**BIG DATA HADOOP DEVELOPER OF THE YEAR 2016**



 Top 10 IoT Training Institutes – 2016  
 **Analytics India MAGAZINE**



  **Asian Training & Leadership Award, Dubai**



 **TOP 5 Emerging Technologies TRAINING COMPANIES**  
 **siliconindia**





# AUTHORIZED TRAINING PARTNERS FOR





# What is Microsoft Azure?

Microsoft Azure is a cloud computing platform for building, deploying and managing services and applications from anywhere, and at any time. With Azure, one could add cloud computing capabilities to their existing network through PaaS (Platform-as-a-Service) or IaaS (Infrastructure-as-a-Service) model to explore the IaaS architecture of Microsoft Azure, thereby optimizing the Windows server workloads and implements enterprise applications architecture on the Azure platform.

## AZ-104: Microsoft Azure Administrator

Beginning 31 March 2020, Microsoft has retired the AZ-103: Microsoft Azure Administrator certification examination and replaced it with the AZ-104: Microsoft Azure Administrator certification examination.

When an individual clears this exam, they get an Achievement Badge, validating their skills as a Microsoft Azure Administrator.

# Microsoft Certified Azure Administrator

The new AZ-104 Microsoft Azure Administration Associate certification examination will validate the participant's skills as an Azure administrator. Azure administrators implement, manage and monitor identity, governance, storage, compute and virtual networks in a cloud environment. They will also provision, size, monitor and adjust resources, as appropriate.

This new certification track has eliminated modules that are out of scope for most Azure professionals and has included all the relevant skills that they would need to be successful.



# Who should take this course?

As on-premise data centers are becoming obsolete, cloud with its affordability and availability, is attracting more and more users. Microsoft Azure is one of the most popular cloud service providers in the market, with over two-thirds of the world's Fortune 500 companies moving their workloads to Microsoft Azure. The course is highly recommended for individuals keen to leverage the cloud platform for enterprise success. Anyone who desires to manage Microsoft Azure will find the course immensely helpful in preparing for the Microsoft Azure Administrator certification.

## Prerequisites

Successful Azure Administrators start this role with experience in virtualization, networking, identity, and storage.

- Understanding of on-premises virtualization technologies, including: VMs, virtual networking, and virtual hard disks
- Understanding of network configurations, including TCP/IP, Domain Name System (DNS), virtual private networks (VPNs), firewalls, and encryption technologies
- Understanding of Active Directory concepts, including users, groups, and role-based access control
- Understanding of resilience and disaster recovery, including backup and restore operations



# Latest trends in Microsoft Azure

Microsoft Azure is used by over 57% of Fortune 500 companies

Over 1000 new customers sign up for Azure on a daily basis. That's 365,000 companies adopting MS Azure every year.

Microsoft Azure is playing a huge role in fueling the growth of machine learning, artificial intelligence and internet of things.

Program structure and platforms

## Benefits

- **Live Online Instructor Led Training**
- Microsoft Certified trainers
- Lifetime LMS Access
- 24 x 7 Support
- Real-Life Projects & Case Studies with 80% Hands-on
- Get Microsoft Examination Voucher.
- Globally Recognized **ISO Certification**
- Duration: 5 **Weekend**, 3 hours on Saturday & Sunday
- Session recording and authorized materials will be provided for Life-time

# DETAILED CURRICULUM : MODULES

## Module 01 – Identity

In this module, you will learn how to secure identities with Microsoft Entra ID and implement users and groups.

- **Lessons**
  - o Microsoft Entra ID
  - o Users and Groups

## Module 02 – Governance and Compliance

In this module, you will learn about managing your subscriptions and accounts, implementing Azure policies, and role-based access control.

- **Lessons**
  - o Subscriptions and Accounts
  - o Azure Policy
  - o Role-based Access Control (RBAC)

## Module 03 – Azure Administration

In this module, you will learn about the tools an Azure Administrator uses to manage their infrastructure. This includes the Azure Portal, Cloud Shell, Azure PowerShell, CLI, and Resource Manager Templates.

- **Lessons**
  - o Resource Manager
  - o Azure Portal and Cloud Shell
  - o Azure PowerShell and CLI
  - o ARM Templates

## Module 04 – Virtual Networking

In this module, you will learn about basic virtual networking concepts like virtual networks and subnetting, IP addressing, network security groups, Azure Firewall, and Azure DNS.

- **Lessons**
  - o Virtual Networks
  - o IP Addressing
  - o Network Security groups
  - o Azure Firewall
  - o Azure DNS

## Module 05 – Intersite Connectivity

In this module, you will learn about intersite connectivity features including VNet Peering, Virtual Network Gateways, and Site-to-Site Connections.

- **Lessons**
  - o VNet Peering
  - o VPN Gateway Connections
  - o ExpressRoute and Virtual WAN

## Module 06 – Network Traffic Management

In this module, you will learn about network traffic strategies including network routing and service endpoints, Azure Load Balancer, and Azure Application Gateway.

- **Lessons**
  - o Network Routing and Endpoints
  - o Azure Load Balancer
  - o Azure Application Gateway
  - o Traffic Manager

# DETAILED CURRICULUM : MODULES

## Module 07 – Azure Storage

In this module, you will learn about basic storage features including storage accounts, blob storage, Azure files and File Sync, storage security, and storage tools.

- **Lessons**

- o Storage Accounts
- o Blob Storage
- o Storage Security
- o Azure Files and File Sync
- o Managing Storage

## Module 08 – Azure Virtual Machines

In this module, you will learn about Azure virtual machines including planning, creating, availability and extensions.

- **Lessons**

- o Virtual Machine Planning
- o Creating Virtual Machines
- o Virtual Machine Availability
- o Virtual Machine Extensions

## Module 09 - Serverless Computing

In this module, you will learn how to administer serverless computing features like Azure App Service, Azure Container Instances, and Kubernetes.

- **Lessons**

- o Azure App Service Plans
- o Azure App Service
- o Azure Container Services
- o Azure Kubernetes Service

## Module 10 – Data Protection

In this module, you will learn about backing up files and folders, and virtual machine backups.

- **Lessons**

- o File and Folder Backups
- o Virtual Machine Backups

## Module 11 – Monitoring

In this module, you will learn about monitoring your Azure infrastructure including Azure Monitor, alerting, and log analytics.

- **Lessons**

- o Azure Monitor
- o Azure Alerts
- o Log Analytics
- o Network Watcher



# Why choose Cognixia?



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REAL-LIFE PROJECTS & CASE STUDIES



INDUSTRY EXPERTS AS TRAINERS



INDUSTRY STANDARD CERTIFICATE



# POTENTIAL CAREER OPTIONS

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**Network project engineers**

**Cloud infrastructure specialists**

**Cloud administrators**

**DevOps engineers**

**Application developers**

**Infrastructure administrators**

**Software architects**

**Software developers**



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Microsoft Azure  
Administrator**



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