# Azure Cloud Computing

# Bootcamp **Live**

**MTT**

Technology. Simplified.
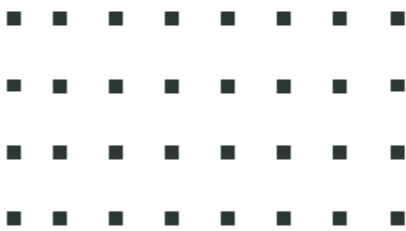
5-week online Azure Cloud Computing Bootcamp that brings tons of confidence in you to architect any web solutions in Azure.

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# Overview

MTT is a Technology-driven program teaching the core concepts of programming in-depth and the latest web development. During the course, our students learn how to build any beautiful web applications by themselves like a pro. They also become members of our highly engaged community MTT Hub and get in touch with international talents who keep helping each other and sharing opportunities on a daily basis. We taught more than 100K students from 183 countries through Udemy and MTT platform.

# What you will learn

Candidates completing this Bootcamp will have expertise in designing, building, testing, and maintaining cloud applications and services on Microsoft Azure. Will also get exposure in all phases of cloud development from requirements definition and design, to development, deployment, and maintenance. performance tuning, and monitoring.

It will also help you to prepare for the AZ-204 Developing Solutions for the Microsoft Azure exam. Even if you don't plan to take the exam, this course will help you gain a solid understanding of developing applications on Azure. If you pass the AZ-204 exam then you will earn the Microsoft Certified Azure Developer Associate Certification.

You will become an expert in the following topics on completion of this Bootcamp Cloud Computing, Azure Cloud, Azure App Services, Azure SQL DataBase, deep dive to Azure Cloud Storage, NoSQL, Azure Cosmos DB, Azure Functions, Azure LogicApp, Azure EventGrid, Azure Notification Hub, Azure Active Directory, Azure AD B2C - Authentication, Authorization, Social Logins, Azure Key Vault, Azure API Management, Azure CDN & Azure Cache - Redis, Azure CDN & Azure Cache - Redis, Azure Application Insight, Diagnostics, Monitor, Azure DevOps, Implementing IaaS solutions, Create Linux Ubuntu 18.04 VM, Docker, Azure Resource Manager.

# Our Alumni Detailed

Become cloud solution architect for some of the world's best tech companies (Microsoft, Deloitte, Infosys, Wipro, Tech Mahindra, etc.,)

My name is Khadar, I have 3 years of IT Experience, I'm working with Infosys. Jaleel Sir makes Azure Cloud concepts exceptionally simple and it is always practical oriented with real-time scenarios. I would highly recommend doing the course in Advance, as the IT industry is rapidly moving towards Cloud Architecture.

My name is Ernest, Senior .Net Developer, have 7+ years of development experience, currently in the United States. Jaleel Sir makes the complex Azure Cloud concept look super simple to understand and follow, the clarity in his explanation remarkable and he gives very good and related examples to the concept under study. He got the patience for all his students. You won't regret joining this course.

Myself Imran living in Hyderabad, I am a postgraduate and having experience in .net for more than 9 years and also worked for Deloitte. This Azure Bootcamp will provide real training with ease and an understandable way. I gained confidence in the Azure Development world after attending Jaleel sir's Azure Bootcamp. He really makes concepts very easy to understand. the level of confidence will increase after every session. I sincerely recommend grabbing this opportunity as the market is high in demand for Azure Developers.

# Curriculum

Curriculum Bootcamp - Lecture Plan Week-1

### Day 1:
- Introduction To Cloud Computing
- Dedicated vs Shared vs Cloud
- IaaS
- PaaS & SaaS
- Cloud Solution Providers AWS
- Google Cloud
- Microsoft Azure

### Day - 2
- Introduction To Azure Cloud
- Virtual Machine
- App Service
- DevOps
- Azure SQL
- CosmosDB
- Storage
- Mobile
- Signup Azure
- Create App Service
- Create Storage
- Upload File Manually

### Day - 3
- Azure App Services Web Apps
- Code Walk-Through
- Create Web App
- Deploy Code
- Enable Diagnostics
- Configure App Settings
- Auto Scaling
- Custom Domain Name

### Day - 4
- Azure SQL Database
- Create Database, User, Tables
- Backup & Restore
- ConnectionString
- Firewall Rules
- Allow Client IP
- App Service Resource Group
- Demo CRUD Operations using Web API
- Deploy Web API

### Day - 5
- Azure Cloud Storage
- Blob - Introduction to Azure Storage
- Account Types
- Various Options
- Blob
- Get Access Keys
- Uploading File
- Downloading File

## Week-2:

### Day - 6

- Azure Cloud Storage -Continued...
- Queue & Table - Storage Explorer
- Queue
- Table
- Capacity & Quota
- Required Properties of Table
- Add JSON to Queue
- Read from Queue
- Create Table
- Add Entity to Table
- Query Table

### Day - 7

- Azure Cosmos DB
- Introduction
- Non-Relational
- Horizontal Scaling
- Data Modeling
- Partition Key
- Embedding Entities
- Referencing Entities
- Document Limit
- Data Modeling

### Day - 8

- Azure Cosmos DB - Continued
- Create Cosmos DB
- Cosmos DB Emulator
- Attaching to Storage Explorer
- Create Container (Table)
- Migrate SQL Data to Cosmos DB
- JSON Uploads
- Querying

### Day - 9

- Azure Cosmos DB - Continued
- Insert Item in Container
- Update Item
- Retrieve All Items
- Retrieve Items with filters

### Day - 10

- Azure Cosmos DB - Continued
- Get Records
- Add Child Records

## Week-3:

### Day 11

- Azure Functions
- Introduction to Azure Functions
- Trigger Types
- HttpTrigger Function
- WebHooks
- Integration with GitHub
- Integration with PayPal

### Day - 12

- Azure Funtions - Continued
- CosmosDB Trigger
- Adding Record to Storage Table
- Timer Trigger
- CronTab Configuration
- CronTab Time Zone

### Day - 13

- Azure Funtions - Continued
- Serverless
- What If Complex Related & Dependent Functions
- Introduction to Durable Function
- Components
- Execution History
- Sample HelloWorld Example
- Complex Shopping Cart Checkout Example

## Day - 14

- Azure Logic App
- Introduction
- Serverless Workflows
- Actions & Triggers
- Sample HTTP Request-Response
- Read Queue - Send Email - Delete Queue
- Calling Function App
- VS 2019 Extension

## Day - 15

- Azure Logic App - Continued
- Control Actions
- Parallel
- Conditional IF
- Conditional Switch
- For Each
- Until
- Terminate
- Scope

## Week-4:

## Day - 16

- Azure Event Grid
- Reactive Programming
- Why Event Grid?
- Key Concepts
- Benefits
- Retry & Back Off - Dead Letter
- Polling
- Demo - Storage Blob

## Day - 17

- Azure Event Grid - Continued
- Hands-On - Complex Checkout Process
- Event Grid Topic
- Event Source
- Event Handlers
- Subscription
- Paypal Webhook
- Storage Queue
- Logic App
- Azure Function Handler as Event Handlers

## Day 18

- Azure Notification Hub
- Introduction
- Get Server Key from FCM
- SharedAccessSignature
- MTT Mobile App
- Test Push Notification
- Send Push Notification using C#

## Day - 19

- Azure Active Directory
- Introduction
- Identity
- Identity Provider
- Access Management
- User Creation Demo
- Role Assignment Demo
- Shared Access Signature

## Day - 20

- Azure Active Directory - Continued
- Hands-On - Azure AD B2C - Authentication
- Authorization
- Registration
- Email Verification
- MFA
- Password Reset
- Custom User Attributes
- Custom Layouts
- Social Logins

## Week-5:

## Day - 21

- Azure DevOps
- Version Controlling
- Create an Organization
- Project
- Add Members to Project
- Push Code to Repository
- Build Pipeline
- Continuous Integration
- Release Pipeline
- Continuous Deployment -Approvals

## Day - 22

- Implementing IaaS solutions
- Create Windows 2019 VM
- Configure IIS
- Install Web Deploy
- Install .Net Core Runtime
- Install Web Deploy
- Inbound Ports & Firewall
- Deploy .Net Core Web Application on VM

## Day - 23

- Implementing IaaS solutions - Continued
- Create Linux Ubuntu 18.04 VM
- Configure Apache WebServer
- Install .Net Core Runtime
- Install FTP
- Configure Kestrel Service
- Inbound Ports & Firewall
- Deploy .Net Core Web Application on VM

## Day - 24

- Implementing IaaS solutions - Continued
- Docker
- Create Image
- Run Instance Locally
- Pushon Docker Hub
- Create App Service from Docker Hub
- Push Image to Azure Container Registry
- Create Container Instance fromACR

## Day - 25

- Implementing IaaS solutions - Continued
- Azure Resource Manager
- ARM Templates
- Quick Start Guide

# FAQ

### Is this live Bootcamp Online or Offline?

It's Online. All the sessions will be from GotoMeeting.

### Do I need to purchase Gotomeeting software?

No. We will give a link to the meeting room after registration.

### Do you also record the sessions of Bootcamp?

Yes. We also record the daily sessions and give lifetime access to it as a private course. Which will be help full for you to revise or as back up if you miss any session

### What is the timing of Bootcamp?

5 days Week 7 AM to 8 AM IST - Live Session

### What is the duration of Bootcamp?

5 weeks

### What is the batch size of Bootcamp?

15

### How do you assist if we get any doubts?

Through email or WhatsApp chat or live desktop sharing.

### Do we get a Bootcamp completion certificate?
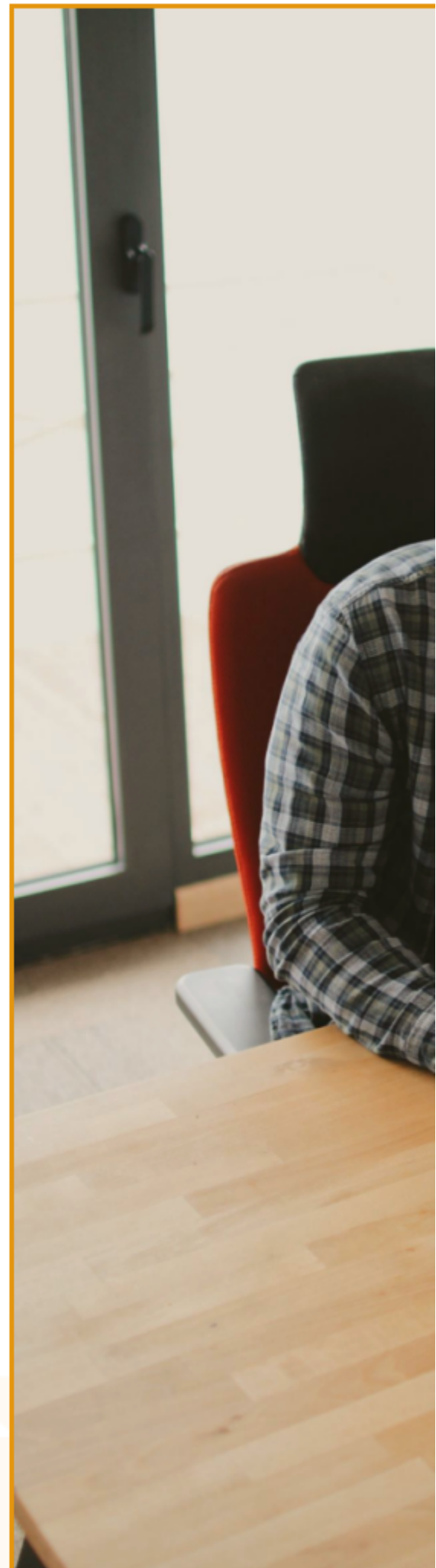
Yes.

### What if I am not satisfied with the Bootcamp?

Within the first week of Bootcamp, you can apply for money back at info@manzoorthetrainer.com and will refund full money without any questions.

### Can I see the reviews of previous Bootcamp students?

Yes. Here https://g.page/ManzoorTheTrainer/review

### Do you give a Job guarantee?

We give job assistance.

### What is the fee structure of Bootcamp?

$500/- USD

### What is the fee structure of Bootcamp in Indian Currency?

₹35,000/- INR

### What is the process of enrollment?

You need to talk to Manzoor The Trainer on WhatsApp at +91 9676010101 and after a small round of discussion, we will let you know if you are eligible to enroll in Bootcamp.

### Do I need a laptop?

Each student must have a laptop. You'll need Windows, You'll learn how to install MS SQL Server And Visual Studio

# About the Author:



## Mohammed Jaleel Ahmed
### Microsoft Certified Solutions Architect

Jaleel Ahmed is a Microsoft Solutions Architect. He has been designing enterprise applications in the Microsoft stack for the past 15+ years. He works in a remote team environment and utilizes agile development processes to deliver solutions for complex & evolving businesses.

# Contact Us:

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