



Azure Serverless App Development: 2-day Workshop

Program

Day-1 -- Theoretical Day

- **Module:** Introduction to Serverless Computing (3-4h)
 - What is Serverless Computing? (0.5h)
 - Benefits of Serverless Computing (0.5h)
 - Drawbacks of Serverless Computing (0.5h)
 - What is Azure Functions? (0.5h)
 - Azure Functions in detail (1-2h)
 - ◆ Hosting Options
 - ◆ Scaling
 - ◆ Networking Options
 - ◆ Deployment Options
 - ◆ Understanding cold starts
 - ◆ Monitoring & Optimize Performance
 - ◆ Long Running Functions
- **Lab:** Azure Functions (1h)
 - Create Azure Function App in Azure
 - Create a timer trigger
 - Create a HTTP trigger
 - Create a Blob trigger
- **Module:** Loosely coupled serverless solutions in Azure (4-3h)
 - Loosely Coupled System Architecture Overview
 - ◆ Characteristics (0.5h)
 - ◆ Advantages
 - Events based systems (1h)
 - ◆ Azure Event Grid
 - ◆ Azure Event Hubs
 - Message based systems (1h)
 - ◆ Azure Queue Storage
 - ◆ Azure Service Bus
- **Lab:** Queue Storage & Event Grid (1.5h)
 - Create a queue and trigger the created Azure Function with this queue
 - Create an event grid and trigger the created Azure Function with this event grid
 - Chain Azure Functions together using the created queue and event grid



Deep Network GmbH

Landsbergerstr. 302 | 80687 München | Deutschland +49 (0) 89 6151 5236 | www.deepnetwork.com

DAY 2 – Workshop Day

- **Module:** Asynchronous messaging workshop (8h)
 - **Lab:** Fan out - message filtering (4h)
 - **Lab:** Event Grid - Service Bus chaining, service buses as buffering load balancers (4h)