



Azure Cloud Core Services: 2-days Workshop

Program

Day-1

Introduction to Cloud Computing	1.5h
What do we need to run a product? Case studies:	
- Manage VMs	
- Manage network, security	
- Manage physical infrastructure	
- Add new service type	
What is Cloud?	
- Infrastructure as a Service	
- Software as a Service	
- Platform as a Service	
- Data centers, Availability Zones, Regions	
How can we run the same on-premise products in Cloud?	
Cloud pros and cons	
Azure portal introduction	
Azure Core Services	3h
Compute	1h
- Virtual Machines and App Service	
- Containers	
- Functions	
- Workloads orchestrators	
- How to choose what you need?	
Storage	1h
- Object storage (Azure Storage Account)	
- Block storage (Azure Disk)	
- How to choose what you need?	
Network	1h
- Virtual network	
- Network Security Group	
- Load Balancers	
- DNS	
- CDN	
Labs	3.5h
- <i>Lab-1: create VM with Disk, VNet, and network security group</i>	
- <i>Lab-2: deploy container to the Cloud, create PIP and DNS record to access it</i>	



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Day-2

Azure Core Services continuation	3h
Managed Databases	1h
- SQL	
- CosmosDB	
- Azure Cache	
Event Streaming, Messaging, IoT:	1h
- Event Hub	
- Event Grid	
- Message Service Bus	
- IoT Hub	
Data Engineering:	1h
- Data Lake	
- Stream Analytics	
- Databricks	
- Data Factory	
Labs	4h
- <i>Lab-3: Create Azure Function, Storage Account, Event Hub. Trigger function on event, write results to Storage Account Table</i>	
- <i>Lab-4: Stream Analytics pipeline, which reads data from IoT Hub and saves results into a managed database</i>	
Summary	1h
Review the workshop	
Next steps and further reading	
Q & A	