

Introduction to Microsoft Azure

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- Microsoft's public cloud
- Announced in October 2008
- Released in February 2010
- The 2nd largest public cloud
- Closing the gap...



- First focused on PaaS services
 - To counter AWS's IaaS focus
- Later added IaaS
- Currently offers the largest variety of cloud services



- Major clients:



SAMSUNG



Regions

- Microsoft built a lot of datacenters for Azure
- Each datacenters' location is called Region
- There are ~60 Azure Regions (more than any other cloud)
- Almost every new resource in the cloud should be allocated to a region



Source: <https://azure.microsoft.com/en-us/global-infrastructure/geographies/>

Zones

- Some of the regions have more than one physical datacenter
- Great for availability in case one datacenter fails
- Each datacenter is called Zone
- When there are more than one datacenter in a region, the region is said to have Availability Zones
- Some cloud services benefit from Availability Zones



Source: <https://azure.microsoft.com/en-us/global-infrastructure/geographies/>

Paired Regions

- Some regions have designated pair region
- For increased availability
- When a full region fails – the other one can fill its place
- Relevant for some of the cloud services
- Pairs are set by Azure and cannot be changed



Source: <https://azure.microsoft.com/en-us/global-infrastructure/geographies/>

Azure Services

- Everything that can be done in the cloud is called

Cloud Service

- ie. Creating VMs, building databases, set up networks, use AI algorithms, using central user management etc.

Azure Services

- Go to:

<https://azure.microsoft.com/en-us/services/>