



Azure basic concepts

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What is Azure?

- The Azure cloud platform is more than 200 products and cloud services designed to help you bring new solutions to life—to solve today's challenges and create the future. Build, run, and manage applications across multiple clouds, on-premises, and at the edge, with the tools and frameworks of your choice.
- Azure cloud has a lot of services for different purpose like store the information, run a code or containers, databases
- Azure cloud has a lot of native tools to deploy recourses like arm/bicep, PowerShell
- Possibility to deploy via terraform.

Start with Azure

- Create an Azure account and get 200\$ within the first month for experiments - <https://azure.microsoft.com/en-us/free/>
- 40+ services available for testing within next 12 months
- Azure DevOps free account - <https://azure.microsoft.com/en-us/pricing/details/devops/azure-devops-services/>

Azure services to run the code

- App service - <https://learn.microsoft.com/en-us/azure/app-service/>
- Function app - <https://learn.microsoft.com/en-us/azure/azure-functions/>

Azure services to run containers

- Azure Kubernetes service - <https://learn.microsoft.com/en-us/azure/aks/>
- Web App for containers (app service) - <https://learn.microsoft.com/en-us/azure/app-service/>
- Azure Container instance - <https://learn.microsoft.com/en-us/azure/container-instances/>
- Azure Container apps - <https://learn.microsoft.com/en-us/azure/container-apps/>

Databases

- Azure SQL - <https://learn.microsoft.com/en-us/azure/azure-sql/?view=azuresql>
- Cosmos DB (including different instances like sql, no sql and so on) - <https://learn.microsoft.com/en-us/azure/cosmos-db/introduction>
- SQL on VM - <https://learn.microsoft.com/en-us/azure/azure-sql/virtual-machines/windows/sql-server-on-azure-vm-iaas-what-is-overview?view=azuresql>
- Postgre SQL - <https://learn.microsoft.com/en-us/azure/postgresql/>

Load balancers

- Azure load balancer - <https://learn.microsoft.com/en-us/azure/load-balancer/>
- Application gateway - <https://learn.microsoft.com/en-us/azure/application-gateway/>
- Azure front door - <https://learn.microsoft.com/en-us/azure/frontdoor/>
- Traffic manager - <https://learn.microsoft.com/en-us/azure/traffic-manager/>

How to deploy something to Azure Cloud

- Bicep/arm template - <https://learn.microsoft.com/en-us/azure/azure-resource-manager/bicep/>
- Terraform – azurerm or azapi module at least
- PowerShell
- Az cli

Questions