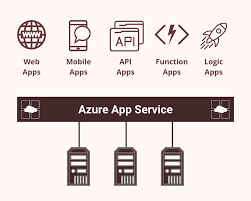
**App Service overview**

It’s part of Microsoft Azure’s Platform as a Service (PaaS) offering and is designed to streamline the deployment and management of web apps without having to manage the underlying infrastructure.



**🔹 Key Features of Azure App Service**

1. **Multiple Language Support**  
   Supports .NET, Java, Node.js, Python, PHP, Ruby, and custom containers via Docker.
2. **Integrated CI/CD**  
   Connects with GitHub, Azure DevOps, Bitbucket, etc., for continuous integration and deployment.
3. **Auto-Scaling and Load Balancing**  
   Automatically scales your app up or down based on demand with built-in load balancing.
4. **Custom Domains and SSL**  
   Easily map custom domains and manage free or paid SSL certificates.
5. **Security**
   * Authentication and authorization (via Azure AD, Google, Facebook, etc.)
   * App Service Environment (ASE) for isolated and secure network deployments
   * VNET integration and private endpoints
6. **Monitoring and Diagnostics**  
   Built-in monitoring via Azure Monitor, App Insights, and log streaming.
7. **Dev/Test/Production Slots**  
   Deployment slots let you test in staging and swap into production with zero downtime.
8. **Global Reach**  
   Hosted in Azure’s global data centres, ensuring low latency and high availability.

**🔹 Use Cases**

* Hosting websites and web applications
* REST API backends
* Mobile app backends
* Hosting eCommerce platforms and CMSs (like WordPress)

**🔹 Pricing Tiers**

* **Free/Tier (F1)** – For testing and learning.
* **Shared (D1)** – Shared infrastructure, basic features.
* **Basic/Standard** – Dedicated compute, autoscaling, custom domains.
* **Premium/PremiumV3** – High-performance apps, VNET integration.
* **Isolated/ASE** – Highly secure, private environments for enterprise workloads.

**🔹 Benefits**

* Rapid development and deployment
* Reduced infrastructure management
* Seamless scaling and global availability
* Cost-effective for small and large workloads