

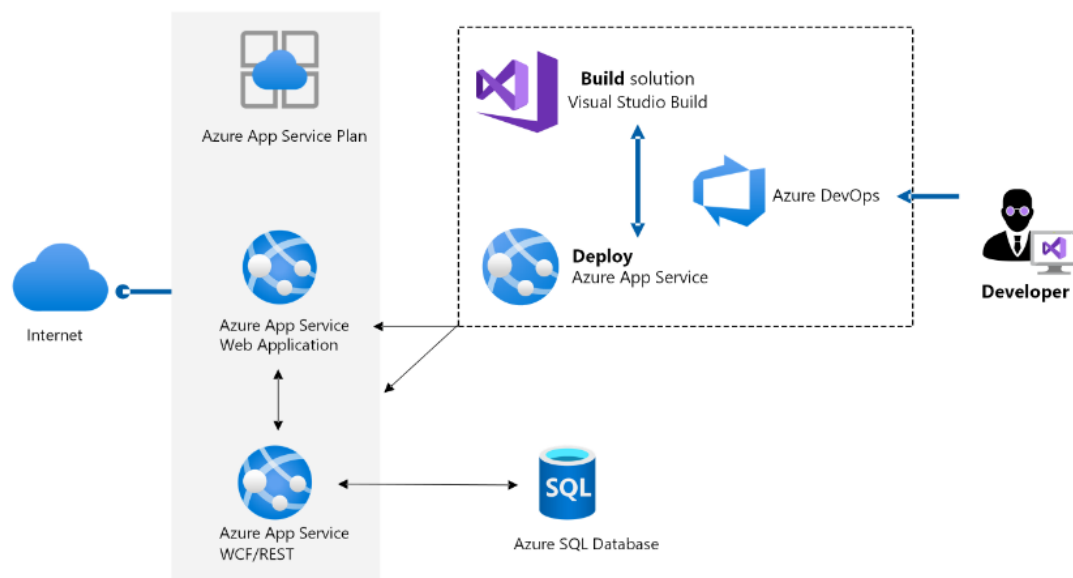
AZURE APP SERVICE

➔ **Azure App Service**, a popular Platform-as-a-Service (PaaS) offering by Microsoft Azure:

➔ **Azure App Service** is a fully managed platform for building, deploying, and scaling web apps and APIs. It allows developers to focus on writing code while Microsoft handles the infrastructure, security, and scaling.

➔ It provides a fully managed environment for hosting web applications and APIs, supporting multiple languages and frameworks, such as .NET, Node.js, Python, Java, and more.

➔ Azure App Service helps solve crucial issues and reduces operational overhead so developers can concentrate on web development instead of spending more time on the infrastructure setup.



Key Features

1. Supports Multiple Languages & Frameworks

- .NET, .NET Core
- Node.js
- Python
- Java
- PHP

- Ruby
- Containers (Docker)

2. **Deployment Options**

- GitHub, Azure DevOps
- FTP, ZIP deployment
- CI/CD pipelines
- Docker containers

3. **Scaling**

- **Manual** or **Automatic** scaling
- Scale up (more power) or out (more instances)
- Available in **Free**, **Shared**, **Basic**, **Standard**, **Premium**, and **Isolated** tiers

4. **Security**

- Custom domains & SSL certificates
- Authentication and authorization integration (Azure AD, Facebook, Google, etc.)
- VNet integration & hybrid connections

5. **Integrated Tools**

- Azure Monitor and Application Insights for diagnostics
- Azure DevOps and GitHub Actions for CI/CD
- Staging slots for testing before production

6. **Global Availability**

- Run your app in data centers around the world with traffic routing

Where can Azure App Services be of use?

Developers and organizations use Azure App Service to build and deploy a wide range of web applications and APIs, including:

1. **Web applications:** Azure App Service can host web applications built with popular frameworks such as .NET, Node.js, Python, and Java.
2. **APIs:** Azure App Service can also host APIs built with RESTful or serverless functions.
3. **Mobile backends:** Azure App Service can build and deploy mobile backends, providing a scalable and secure environment for your mobile app.

4. **E-commerce sites:** Azure App Service can host e-commerce sites, providing a reliable and scalable platform for online stores.
5. **Custom line-of-business applications:** Azure App Service can build and deploy custom line-of-business applications, providing a secure and scalable platform for enterprise applications.

Pros

- ➔ Easy to set up and manage
- ➔ Built-in scaling and patching
- ➔ Supports both Windows and Linux
- ➔ Deep integration with Azure ecosystem

Limitations

- ➔ Not ideal for apps needing full control of OS or infrastructure
- ➔ Slightly more costly than IaaS in some scenarios
- ➔ Performance might depend on service plan and app optimization