

## Azure App Service

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Azure App Service → HTTP based service for hosting web app, rest api's, mobile backend. (Windows + Linux Based)

### \* Features

- 1) Built in Auto Scale.
- 2) CI/CD Support.
- 3) Deployment Slots.

### \* App Service Plan.

It defines a set of compute resources for a web app to run. (one or more)

It defines:

- 1) OS
- 2) Region
- 3) No. of VM
- 4) Size of VM

### \* Pricing Tier:

1) Shared Compute: (Free & Shared)

Runs an app on same Azure VM as other App Service apps, including other customers. Resources can't scale out.

2) Dedicated Compute: (Basic, Standard, Premium, Premium V2 & Premium V3)  
runs apps on dedicated Azure VMs, Apps share compute in the same Azure Service Plan. Scale out is possible

3) Isolated: Isolated / Isolated V2 has new dedicated Azure VMs on dedicated Azure Virtual Networks. It provides network isolation + compute isolation.

### \* Deploy to Azure Service.

(Automated deployment)

1) Azure DevOps Service.

- 2p Github.
- 3p Bitbucket

(Manual deployment)

- 1p Git
- 2p CLI
- 3p Zip deploy

\* (Use Deployment Slots)

(Swap between staging & production slots)

## \* Authentication & Authorization in App Service.

- 1p Build an authentication feature for App Service & Azure Functions.
  - 2p Integrate various auth capabilities into your web app or API without implementing them yourself.
    - 3p Microsoft Entra ID
    - 4p Facebook
    - 5p Google.

### • Authentication flow

- 1p Without provider SDK/Server directed flow: The application redirects the user to the provider's login page → Used for Browser Apps.
- 2p With provider SDK/Client-directed flow: Uses provider SDK to handle sign-in & then submits the token to the App Service.
- 3p Ex: Used for REST APIs, mobile apps.

### • Authorization behavior.

- 1p Allow ~~unauthenticated~~ unauthenticated requests.
- 2p Requires authentication.

### \* Token Store.

Repository of tokens for users.  
Available when you enable authentication with any provider.

### \* Logging & tracing.

Enables application logging, authentication & authorization traces are collected in your log files.

## \* Azure Service Networking features

1. Multitenant ~~App~~ App service (All plans except Isolated)

2. Single tenant App service (Isolated)

Inbound address | Outbound address.  
↳ Possible Outbound IP Addresses.



## \* Application settings

connection strings  
API Keys

## SSL settings

→ Buy Certificate (Needed for a production env.)

\* Monitoring

of App Service logs:

1) Application logging (Fdxsystem)

2) App logging (Blob)

3) Web server logging.

4) Detailed error messages

5) Failed request tracing.

6) Quota, retention period.

7) Diagnostic logs.

→ log analytics.

(can see in Monitor)

(can use logs to run query & get the app logs)

(log stream → realtime logs)

