AZURE APPSERVICE

What is meant by App Service in Azure?

Azure App Service lets you create apps faster with a one-of-a kind cloud service to quickly and easily create enterprise-ready web and mobile apps for any platform or

Device and deploy them on a scalable and reliable cloud infrastructure.

 In App Service (Web Apps, API Apps, or Mobile Apps), an app always runs in an App Service plan. In addition, Azure Functions also has the option of running in an App Service plan.

An App Service plan defines a set of compute resources for a web app to run.

 The primary goal of API is to standardize data exchange between web services. Depending on the type of API, the choice of protocol changes. On the other hand,

REST API is an architectural style for building web services that interact via an HTTP protocol

 App Service not only adds the power of Microsoft Azure to your application, such as security, load balancing, auto scaling, and automated management.

 Your App Service plan can be scaled up and down at any time. It is as simple as changing the pricing tier of the plan. You can choose a lower pricing tier at first and

Scale up later when you need more App Service features.

An App Service Environment can host you’re:

• Windows web apps

• Linux web apps

• Docker containers (Windows and Linux)

• Functions

• Logic apps (Standard)

App Service Environments are appropriate for application workloads that require:

• High scale.

• Isolation and secure network access.

• High memory utilization.

• High requests per second (RPS). You can create multiple App Service Environments in a single Azure region or across multiple Azure

Regions. This flexibility makes an App Service Environment ideal for horizontally scaling stateless applications with a high RPS requirement.

WEBAPPS

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Used for hosting webapps and web applications (previously azure webapps)

API APPS

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API app useful for hosing restful APIs

Makes it easy to develop host and consume api in the cloud and as well as on-premises

Advantage of APIs in azure API app we will get direct gateway enterprise security and simple access control and automatic sdk generation and seamless integration with logic apps

LOGIC APPS

Used for business automation

System integration

Sharing data across clouds

MOBILE APPS

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Hosting for mobile app back ends (previously delivered by azure services) where we can deploy mobile backend services using azure mobile app

By implementing of mobile backend services on azure or mobile backend will communicate with different azure services

APPSERVICE PLANS

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WITHOUT CREATING A APPSERVICE PLAN YOU DO NOT create a app service

DEPLOYMENT SLOTS

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It allows you to run your function apps in different instances

Slots are different environments publically exposed by publically available endpoints

One app instance will always, api with production slot and you can swap the instances assigned to on the demand

PRICING TIERS

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PRICING TIERS DEPENDING ON THE selection of operating system you used at the time of creation

1. Shared compute

Free and shared the two base tiers

Runs on the same azure VM as other app service apps including apps of other customers

These two tiers allocate CPU quotas to each app that runs on the shared resources

Resources cannot scaled out

Dedicated compute

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Basic

Standard

Premium

Premium v2

Premium v3

These are runs on the dedicated azure VM’s

Only apps in the same app service plan share the same compute resources

Higher the tier more VM’s instances required to available to scale out

ISOLATED

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This isolated and isolated v2 tiers runs on the dedicated azure VM’s on dedicated azure virtual networks

It provides network isolation on top of compute isolation to your apps

It provides maximum scale-out capabilities