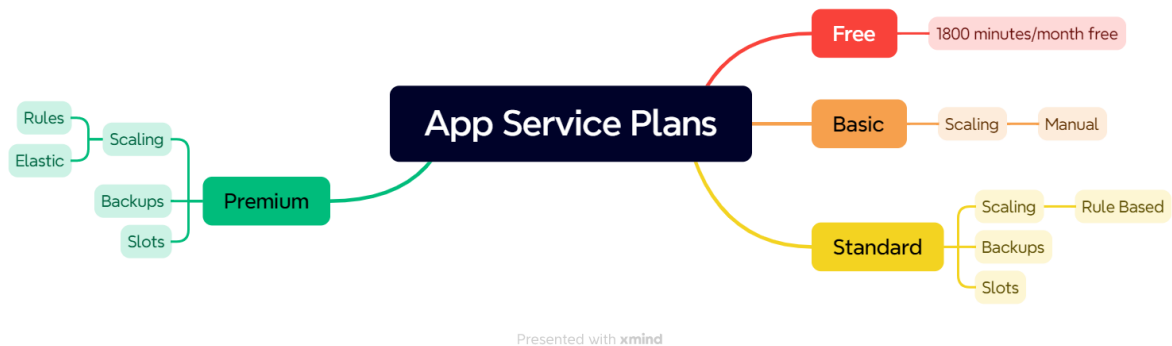


Azure App Service

- Azure App Service is Platform as a Service offering from Azure which helps in deploying
 - .net
 - python
 - java
 - nodejs
 - php
 - other technologies can be hosted as docker containers
- Azure App Services allows to deploy applications from
 - Version Control Systems
- Azure App Services provides scaling options according to the pricing plan
- Pricing of Azure App Services



- Azure App service can be linked with Domains and also gives option to purchase a domain

Home > Microsoft.Web-WebApp-Portal-da375055-b181 | Overview > qtdemo

qtdemo | Custom domains ☆ ...

Web App

Search Refresh Troubleshoot

Authentication
Application Insights
Identity
Backups
Custom domains
Certificates
Networking
Scale up (App Service plan)
Scale out (App Service plan)
WebJobs
Service Connector
Locks

App Service plan
App Service plan
Quotas

Configure and manage custom domains assigned to your app. [Learn more](#)

IP address: 20.119.16.44

Custom Domain Verification ID: 503775085A30955265368C8D3AE49843A6B4E936E22172E...

Filter by keywords Add filter

1 items

+ Add custom domain + Buy App Service domain Delete

Custom domains	Status	Solution	Binding type	Certificate used
qtdemo.azurewebsites.net	Secured	-	-	-

< Previous Items per page: 50 Page 1 of 1 Next >

- SSL/TLS Certificates can be managed

The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with 'Microsoft Azure' and a search bar. Below that, the breadcrumb trail reads 'Home > Microsoft.Web-WebApp-Portal-da375055-b181 | Overview > qtdemo'. The main heading is 'qtdemo | Certificates'. On the left, a sidebar menu lists various services, with 'Certificates' highlighted and circled in red. The main content area has tabs for 'Managed certificates', 'Bring your own certificates (.pfx)', and 'Public key certificates (.cer)'. Under 'Managed certificates', there's a message: 'App Service Managed Certificates are free of cost and fully managed by App Service to maintain the safety and security of your site at the highest level. To understand how to create a managed certificate for your app to consume, click on the learn more link. [Learn more](#)'. Below this, there's a search bar 'Filter by keywords' and an 'Add filter' button. The content shows '0 items' and buttons for '+ Add certificate' and 'Delete'. At the bottom, there's a large icon of a certificate and the text 'No Managed certificates to display'.

- Application can be scaled out

The screenshot shows the 'Scale out (App Service plan)' configuration page for the 'qtdemo' Web App. The breadcrumb trail is 'Home > Microsoft.Web-WebApp-Portal-da375055-b181 | Overview > qtdemo'. The main heading is 'qtdemo | Scale out (App Service plan)'. The left sidebar menu has 'Scale out (App Service plan)' highlighted. The main content area is divided into sections: 'Pricing plan', 'Scaling', and 'Save/ Discard' buttons at the bottom. The 'Pricing plan' section shows: 'Current plan: Basic B1 (Change)', 'Price (instance): 1.414 INR/hour (1032.446 INR/month)', 'Memory (GB): 1.75', 'Maximum scale (instance): 3', and 'Current instance: 1'. The 'Scaling' section contains a paragraph: 'App service provides multiple features that help applications perform their best when scaling demand changes. You can choose to scale your resource manually to a specific instance count, or via a custom Autoscale rule based policy that scales based on metric(s) thresholds, or schedule instance count which scales during designated time windows. You can also use Automatic Scaling features which enables platform managed scale in and scale out for your apps based on incoming HTTP traffic. [Learn more about Azure Autoscale, Automatic Scaling or view the how-to video.](#)'

qt demo | Scale out (App Service plan) ☆ ...
Web App

Search

Refresh Send us your feedback

App service provides multiple features that help applications perform their best when scaling demand changes. You can choose to scale your resource manually to a specific instance count, or via a custom Autoscale rule based policy that scales based on metric(s) thresholds, or schedule instance count which scales during designated time windows. You can also use Automatic Scaling features which enables platform managed scale in and scale out for your apps based on incoming HTTP traffic. [Learn more about Azure Autoscale, Automatic Scaling or view the how-to video.](#)

Scale out method

- Manual
Maintain a constant instance count for your application
- Automatic
Platform managed scale out and in based on traffic
Automatic scaling requires a Premium v2 or Premium v3 App Service Plan. Upgrade your App Service Plan to enable this feature. [See recommended pricing plan](#)
- Rules Based
User defined rules to scale on a schedule or based on any app metric
Rules based autoscale requires a Standard or better App Service Plan. Upgrade your App Service Plan to enable this feature. [See recommended pricing plan](#)

Instance count

Save Discard

Development Tools

- SSH
- Advanced Tools
- API
 - API Management
 - API definition
 - CORS

Pricing estimations

- [Refer Here](#) for calculator

- A single instance running a python application

Custom Domain and Certificates ₹0.00

Upfront cost	₹0.00
Monthly cost	₹1,054.23

Support

SUPPORT: Included ₹0.00

Select your programme/offer

LICENSING PROGRAMME: Microsoft Customer Agreement (MCA) Selected billing profile: None selected (change)

• Show Dev/Test Pricing

Estimated upfront cost	₹0.00
Estimated monthly cost	₹1,054.23

- An mission critical stock market application which requires atleast 5 instances of 2 vcpu and needs to automatically scale. This application is also developed by python

Reserved instances

1 year reserved (~35% discount)

3 year reserved (~55% discount)

\$565.75
Average per month
(\$0.00 charged upfront)

SSL Connections \$0.00

SNI SSL

1 Connections = \$0.00

IP SSL

1 Connections = \$0.00

Custom Domain and Certificates \$0.00

- Azure gives reservations i.e when we give commitment to use this solution for next 3 years azure offers 55% discount

Reserved instances

1 year reserved (~35% discount)

3 year reserved (~55% discount)

Payment Options: Monthly

\$255.43
Average per month
(\$0.00 charged upfront)

SSL Connections \$0.00

SNI SSL

1 Connections = \$0.00

AWS Elastic Beanstalk

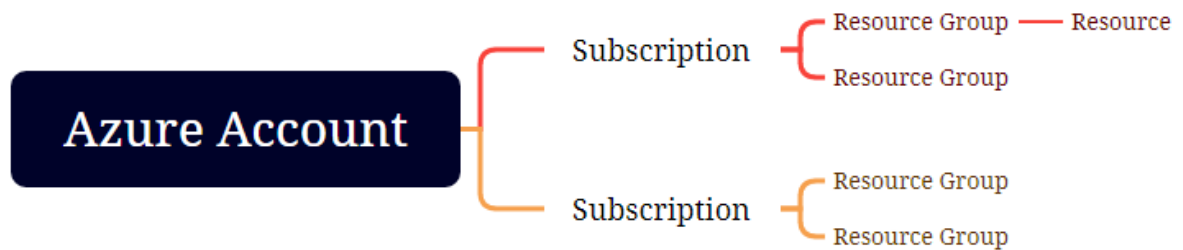
- Elastic Beanstalk is Platform as Service offering from AWS which allows us to host
 - .net
 - java
 - python
 - go
 - node js
 - Ruby
 - other techonlgies can be hosted with custom runtimes
- Elastic Beanstalk internally uses and charges for them
 - EC2
 - s3 buckets
 - load balancers

PaaS Deployment options at a high level

- Code
- Zip files
- Customize by creating extra files to inform PaaS What has to be done

Using Azure CLI

- [Refer Here](#) for onboarding cheatsheet
- Resource Hierarchy



- Lets create a resource group from azure cli
-

Deploy python web application in Azure App Service

- [Refer Here](#) for sample
- Lets deploy our applications using Azure CLI
- To be continued in next session.