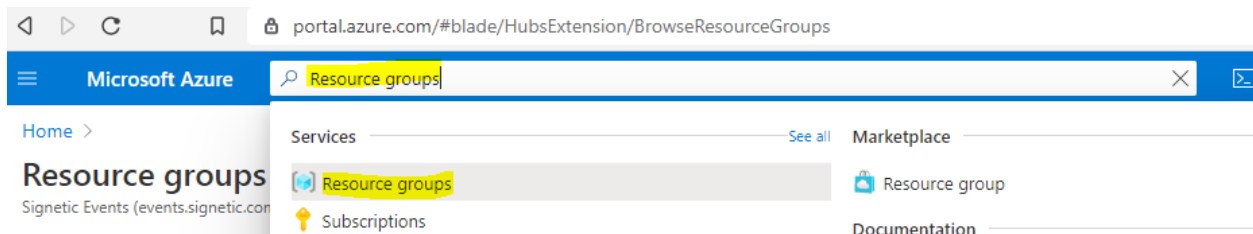


## 2. How to create azure web app services and custom domain with SSL binding.

### Creating azure app services for Front-end.

To create azure app services 1st we need to create resource group for each environments like's DEV, UAT and PROD.


1. In the search tap type the resource group and search for it.



2. create the resource group according to your env by choosing central US location.

## Create a resource group ...

Basics   Tags   Review + create

**Resource group** - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#) 

### Project details

Subscription \* ⓘ

MVS Events Subscription



Resource group \* ⓘ

DEV



### Resource details

Region \* ⓘ

(US) Central US



**Review + create**

< Previous

Next : Tags >

3. Now go to the newly create resource group and click on +add button and search for the web app service.

## Create Web App

Basics Deployment (Preview) Monitoring Tags Review + create

App Service Web Apps lets you quickly build, deploy, and scale enterprise-grade web, mobile, and API apps running on any platform. Meet rigorous performance, scalability, security and compliance requirements while using a fully managed platform to perform infrastructure maintenance. [Learn more](#)

### Project Details

Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \* ⓘ MVS Events Subscription ▼

Resource Group \* ⓘ DEV ▼

[Create new](#)

### Instance Details

Name \* dev-events-portal ✓ .azurewebsites.net

Publish \* ☒ Code ☐ Docker Container

Runtime stack \* Node 12 LTS ▼

Operating System \* ☒ Linux ☐ Windows

Region \* Central US ▼

! Not finding your App Service Plan? Try a different region.

### App Service Plan

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. [Learn more](#)

Linux Plan (Central US) \* ⓘ (New) dev-events-portal ▼

[Create new](#)

Sku and size \* **Free F1**  
1 GB memory  
[Change size](#)

[Review + create](#)

[< Previous](#)

[Next: Deployment \(Preview\) >](#)

Note: Following naming convention must be followed as 'env\_name-tenant\_name-portal' where portal is used for front-end i.e, dev-events-portal or uat-events-portal or prod-events-portal.

Runtime will be Node 12LTS for front-end.

And while choosing linux plan be careful with naming convention, it should be same as of instance name.


Now choose appropriate Sku size for specific environments.

4. Now click on Next button and go to the monitoring section choose yes for Application Insight for monitoring of web-apps.

[Home](#) > [DEV](#) > [Create a resource](#) >

## Create Web App ...

Basics   Deployment (Preview)   **Monitoring**   Tags   Review + create


Azure Monitor application insights is an Application Performance Management (APM) service for developers and DevOps professionals. Enable it below to automatically monitor your application. It will detect performance anomalies, and includes powerful analytics tools to help you diagnose issues and to understand what users actually do with your app. [Learn more](#) 

### Application Insights

Enable Application Insights \*

☐ No ☒ Yes

Application Insights \*

(New) dev-events-portal (Central US) 

[Create new](#)

Region

Central US

**Review + create**

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Next : Tags >

5. click on Review +create and it will take few mins to setup the web-apps.

## Creating azure app services for Backend.

Kindly follow the same process to create web-app services for backend with following naming convention as 'dev-events-api, uat-events-api and prod-events-api'

Instance name will be " dev-events-api"

Runtime stack will be Node 14 Tls

Region will be "central us"

App service plan name will be " dev-events-api "

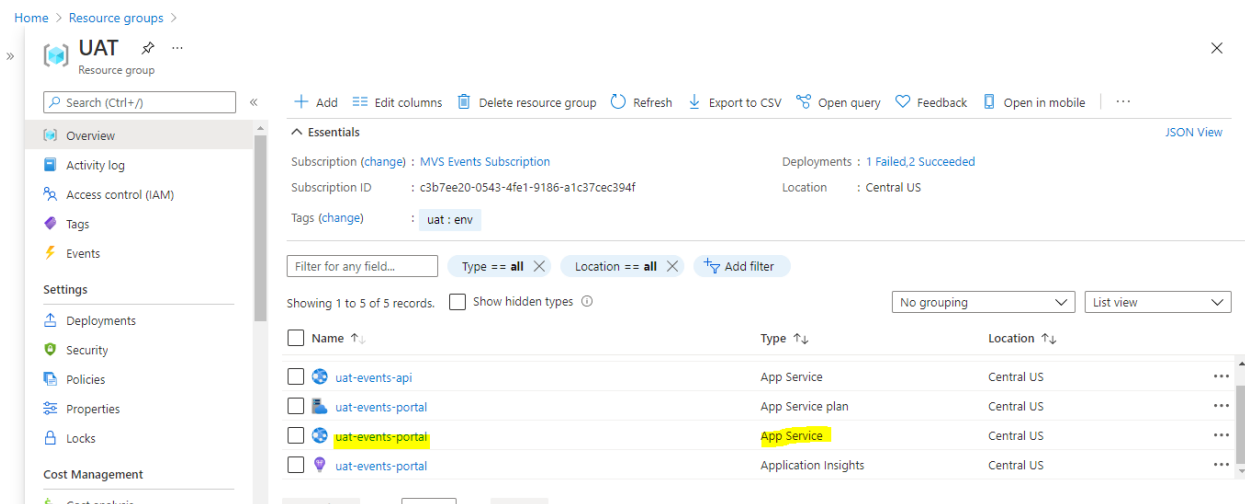
Now choose appropriate Sku size for specific environments.

Now click on Next button and go to the monitoring section choose yes for Application Insight which will be same as of front-end i.e "dev-events-portal".

## Creating Custom domain and SSL binding for front-end and backend.

Previously we created the dns zone for domain uat.events.signetic.com for front-end and api.uat.events.signetic.com for back-end . Now we just assigned the domain name to the web-app services

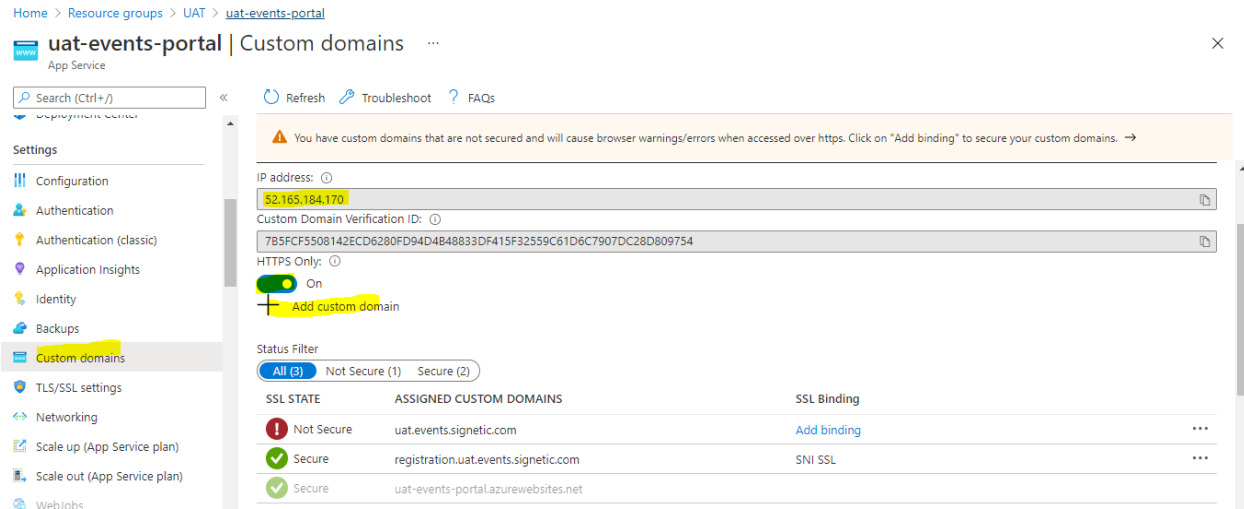
1. Go the web-service front-end web-app service and click on it.



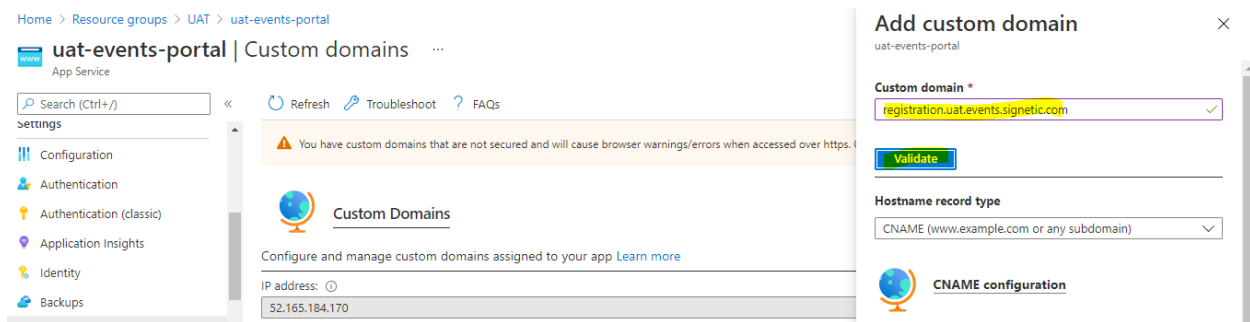
2. On left side tap click on custom domain

- a. Enable the HTTPS ONLY

- b. copy the IP Address of web-app service and add to the DNS zone, i.e A record



c. and again back to custom domain tap and click on the +Add Custom Domain tap and add the domain name i.e "registartion.uat.events.signetic.com" and click on validate



d. Now it will asked with you to verify the custom domain name and to verify custom domain name, it will provides the TXT, CNAME records which will be added in dns zone records.

## Add custom domain



uat-events-portal

uat-events-portal.azurewebsites.net

Add custom domain



### DNS propagation

Please be aware that depending on your DNS provider it can take up to 48 hours for the DNS entry changes to propagate. You can verify that the DNS propagation is working as expected by using <https://digwebinterface.com/>. [Learn more](#)



### Hostname availability



### Domain ownership

To verify domain ownership create CNAME and TXT record with your DNS provider using the configuration below, and replace {subdomain} with value of subdomain. [Learn more](#)

Type	Host	Value
TXT	asuid.www or asuid. {subdomain}	7B5FCF5508142ECD6280FD94D4B48833DF4
CNAME	www or {subdomain}	uat-events-portal.azurewebsites.net

3. Now go to the dns zone "uat.events.signetic.com and add the new record set the txt and cname records.

Home > DNS zones > **uat.events.signetic.com** DNS zone

Search (Ctrl+/) << + Record set + Child zone → Move Delete zone Refresh

Name	Type	TTL	Value	Alias resource type	Alias target
@	A	3600	52.165.184.170		...
@	NS	172800	ns1-07.azure-dns.com, ns2-07.azure-dns.net, ns3-07.azure-dns.org, ns4-07.azure-dns.info		...
@	SOA	3600	Email: azuredns-hostma... Host: ns1-07.azure-dns... Refresh: 3600 Retry: 300 Expire: 2419200 Minimum TTL: 300 Serial number: 1		...
api	CNAME	3600	uat-events-api.azurewe...		...
asuid.api	TXT	3600	785FCF5508142ECD628...		...
asuid	TXT	3600	785FCF5508142ECD628...		...
registration	CNAME	3600	uat-events-portal.azure...		...
asuid.registration	TXT	3600	785FCF5508142ECD628...		...

4. Now click on TLS/SSL setting tap to buy SSL and choose the certificate types "Private Key Certificate" for uat environment

Home > Resource groups > UAT > uat-events-portal

**uat-events-portal** | TLS/SSL settings App Service

Search (Ctrl+/) << Refresh Delete bindings Buy Certificate Troubleshoot FAQs

settings

- Configuration
- Authentication
- Authentication (classic)
- Application Insights
- Identity
- Backups
- Custom domains
- TLS/SSL settings**
- Networking
- Scale up (App Service plan)
- Scale out (App Service plan)
- WebJobs
- Push

Bindings **Private Key Certificates (.pfx)** Public Key Certificates (.cer)

**Private Key Certificate**

Private key certificates (.pfx) can be used for TLS/SSL bindings and can be loaded to the certificate store for your app to consume. To understand how to load the certificates for your app to consume click on the learn more link. Uploaded certificates are not available for manual download from the Azure Management Portal, they can only be used by your app hosted on App Service after the required App Settings are set properly or used for TLS/SSL. [Learn more](#)

+ Import App Service Certificate + Upload Certificate + Import Key Vault Certificate **+ Create App Service Managed Certificate**

**Private Key Certificates**

Status Filter: All Healthy Warning Expired

Health Status	Hostname	Expiration	Thumbprint
Healthy	registration.uat.events.signetic.com	10/16/2021	5174DBE6CED9CEDC0CC59463E284A39A96F83F1 ...
Healthy	api.uat.events.signetic.com	10/16/2021	C6FF2019E1D296BCCD7B489E4C02D6F60D5C497F ...

5. Now go to custom domain tap and bind the SSL to hostname "registration.uat.events.signetic.com and api.uat.events.signetic.com " by clicking on add binding tap.



Home > Resource groups > UAT > uat-events-portal

**uat-events-portal** | Custom domains

App Service

Search (Ctrl+/)

Settings

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- Custom domains**
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Refresh Troubleshoot FAQs

You have custom domains that are not secured and will cause browser warnings/errors when accessed over https.

SSL STATE	ASSIGNED CUSTOM DOMAINS	SSL Binding
Not Secure	uat.events.signetic.com	Add binding
Secure	registration.uat.events.signetic.com	SNI SSL
Secure	uat-events-portal.azurewebsites.net	

**App Service Domains**

Manage domains for your Azure services with auto-renew and privacy protection. [Learn more](#)

+ Buy App Service domain

DOMAINS	EXPIRES
No data found	

**TLS/SSL Binding**

**TLS/SSL bindings**

Use the dropdowns to select the Hostname to secure with SSL and the certificate to use. You may also select whether to use Server Name Indication (SNI) or IP based SSL. [Learn more](#)

Custom domain \*

registration.uat.events.signetic.com

Private Certificate Thumbprint \*

registration.uat.events.signetic.com (5174D866CEDE9CEDC0...

Adding an SSL binding with a hostname used in another binding will override the existing binding

TLS/SSL Type: \*

SNI SSL

**Add Binding**

Note: Now Follow the above mentioned process for back-end i.e " api.uat.events.signetic.com " for custom domain and ssl binding.