Deploying an application on Azure Paas Service

* For deploying application into azure, we need subscription. Login into azure portal and create services.
* Create a resource group under which we create our resources

# Step 1: Deploying SQL database into Azure

* Create a SQL Database service under existing resource group by giving required details such as database name, server name, storage space etc.
* While creating server, create credentials for SQL authentication.
* Then Open SQL Management Studio and open the local DB.
* Export data from local server and save with .bacpac extension in the local disc.
* Login to SSMS with existing azure server link by giving credentials of SQL authentication.
* Then import bacpac file into azure server.
* Local server tables will be updated in azure server.

# Step-2: Creating App Service for deploying API

* Before publishing the web API, the connection string in appsettings.json should be changed from the local server connection string to the connection string of the Azure SQL database.
* The Web API from Visual Studio is published to the Azure App Service by right click over the project file and click on the publish option. Then we can sign-in to our Azure account.
* Next, we need to create an App Service in azure.
* Create App service using the technology stack i.e. LTS 14.
* Configure existing azure database and select required DB and publish.
* Then Web API is deployed into Azure and we can access the API using the URL created on the Azure Portal in the app service.

# Step 3: Creating App Service for deploying Angular/Frontend

* The first step, before deploying, is to change the base API URL.
* Inside the SRC folder we will have the environment folder =>environments.prod.ts. The base API URL of our web API, which we deployed on Azure App Service, will be included in this file.
* Inside the environment.ts file, the base API of the local server is maintained, which will help run the app locally.
* After the configurations are done in the environment, the environment files should be imported to the services and changes should be made to the services accordingly.
* For Deploying Angular we need to create an App Service in azure.
* In VS code, the Azure App Service extension is installed, and the Azure App Service is created on Azure.
* In Azure the App service is created using the technology stack as used for creating the Angular (Node Version).
* After Opening Visual Studio Code, the base URLs are changed as per the API URL in Azure.
* In terminal type “ng build configuration=production”. A “dist” folder will get created.
* Next Deploy the “dist” folder in Azure App service created for Angular.
* The dist folder is deployed on Azure. Then the URL of the frontend should be added to the CORS of the web API so the frontend would be allowed to make requests.
* Finally, we can use the front-end app service’s URL to access our application.