Step 1 Device Simulator:

1) run devsim.py

Step 2 IoT-hub

1) create iot-hub in new resource group

2) create new device in this iot-hub

3) use connection string in devsim

Step 3 CosmosDB

1) create new cosmosDB

2) create db and container(partion key - /timestamp)

Step 4 Stream Analytics job

1) create new Stream Analytics job

2) use iot-hub as input

3) use cosmosDB as output

4) use in a querry:

```
SELECT
    CONCAT(sensor_id, '-', timestamp) AS id,
    sensor_id,
    road_name,
    location,
    building_name,
    timestamp,
    pm2_5,
    pm10,
    co2,
    vehicle_count,
    average_speed,
    energy_consumed,
    power_usage
INTO
    [Sensors]
FROM
    [SmartCityHub]
```

Step 5 Rest api:

1) dotnet publish -c Release -o ./publish

2) zip folder by yourself

3) az webapp deploy --resource-group smartcity --name smartcity-api --src-path ./publish.zip

4) az webapp config appsettings set --name smartcity-api --resource-group smartcity --settings ASPNETCORE_ENVIRONMENT="Development"

Step 5 Fronend deployment

1) Commit frontend to github

2) Create Static Web App with you github repository