**Monitoring Application in Python with Flash and Psutil Library**

**Prerequisites!**

* AWS Account.
* Programmatic access and AWS configured with CLI.
* Python3 Installed.
* Docker and Kubectl installed.
* Code editor (Vscode)
* Set Up Proper environment variable path for python and pip.

**Summary**

* Building, Deploying, Scaling and Managing Monitoring Application in Python with Flash and Psutil Library
* Executing and Debugging Python App locally.
* Learn Docker and How to containerize a Python application.
* Creating Dockerfile Building DockerImage Running Docker Container Docker Commands
* Create ECR repository using Python Boto3. pip install boto3
* You can also create Elastic Container Registry manually.
* Make sure you must have at least two subnet each has eligible for Auto IP Assign.
* Pushing Docker Image to ECR.
* Deployed Kubernetes and Created EKS cluster and Node groups.

**Terminal Code Execution:**

* pip3 install -r requirements.txt.
* python3 app.py
* docker build -t <image\_name> .
* docker run -p 5000:5000 <image\_name>
* docker push <ecr\_repo\_uri>:<tag>
* kubectl get deployment -n default (check deployments)
* kubectl get service -n default (check service)
* kubectl get pods -n default (to check the pods)
* kubectl port-forward service/<service\_name> 5000:5000

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Feel free to check it out: <https://www.linkedin.com/in/nasiullha-chaudhari/>

My GitHub Portfolio: <https://github.com/ademgokce?tab=repositories>

