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

Special thanks to **Nasiullha Chaudhari** for the awesome DevOps projects and clear instructions.

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

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