Yung-Hung Huang

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EXPERIENCE

Site Reliability Engineering (SRE)/DevOps/Cloud engineering

Nov. 2021 - April. 2023

Cloud Computing Operation

- Amazon Web Services(AWS): VPC/VPC Peering/ELB/EC2/RDS/S3/ECR/EKS/ElastiCache for Redis...etc
- Google Cloud Platform(GCP): VPC/Cloud NAT/Cloud Load Balancing/Compute Engine/GKE/Artifact Registry/Cloud Storage/Cloud SQL/Memorystore for Redis...etc
- Alibaba Cloud: VPC/EIP/SLB/CDN/DCDN/ECS/ACK/ACR/EBS/OSS/ApsaraDB RDS/DTS/ApsaraMQ for RocketMQ/ApsaraVideo Live...etc
- CloudFlare: DNS/WAF/Tunnel...etc
- · MongoDB Atlas

System Operation/Migration/Refactoring

- Maintain system documentation with Google Docs/Google Drive/Markdown/GitLab/Mermaid/Backstage
- Create CI/CD pipelines based on GitLab runner/Tekton in Kubernetes cluster
- Migrate deploy architecture from node.js/php-fpm/Java spring microservices to Kubernetes
- Migrate deploy architecture from VMs to Docker/Kubernetes
- · Migration/Refactoring Infrastructure from Alibaba Cloud to AWS
- · Backup for Infrastructure

Kubernetes Admin

- · Maintain operations for k8s Cluster
- Troubleshooting: pod crashloopbackoff, network, I/O problems(Race Condition, OOM Out of memory)...etc
- Subsystem research and deploy: Ingress-NGINX, Cert-manager, Prometheus, Grafana, Redis, RabbitMQ, Elasticsearch, Fluentbit, ElastAlert 2, Gitlab runner, Tekton, KubeSphere, EMQX, Nacos, RocketMQ, ZooKeeper, ProxySQL,

Web Services Development

- boce-crawler: Linux crontab task with Python script running headless-browser automation
- Dragon: streaming platform based on SRS project and Kubernetes

PROJECTS

boce-crawler

- Because of the data loss of our third-party monitoring API when testing with My automation teammate's API wrapper, I need to develope a crontab task with Python under Server-side to extract data on the third-party network monitor dashboard, transform those data, load these data to our MariaDB Database as our grafana datasource.
- Languages & Tools: crontab, Python, concurrent.futures, Requests, Beautiful Soup, Selenium, undetected-chromedriver, pandas, SQLAlchemy, docker, MariaDB, Grafana

Dragon

- The main purpose is that "One live stream from clent But push multiple destinations from server-side"
- · Building a system based on distributed model with multi k8s Clusters which provides streaming services
- Based on an open source project: **SRS(Simple Realtime Server)**, we design backend-API with golang as Webhook to extend the SRS server features and frontend interface via React + Next.js.
- Languages & Tools: Kubernetes, k6, kubectl-graph, Tekton, C++, ffmpeg, Golang, go-callvis, go-swagger, Alibaba Cloud, GCP, CDN network, JavaScript, Node.is, Docker engine

EDUCATION

National Dong Hwa University

Master of Science in Materials Science and Engineering

Sep. 2016 – Jan. 2019 Shoufeng, Hualien

• Thesis: Ultrafast Pump-probe Transient Absorption Spectroscopy of Layer-controllable Molybdenum Disulfide Films

• Research: Semiconductor Materials

SKILLS

Languages: Mandarin (native), English (professional working proficiency)

Programming: Python(proficient), C(competence), JavaScript/HTML/CSS(competence), SQL(competence)

Frameworks: Selenium, pandas, SQLAlchemy **Infra**: Kubernetes, GitLab Runner, Tekton