

Viettel Digital Talent Program Cloud - 2021

Getting Started

Crews (VTNet)

Mentors

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Leaders

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- Nguyễn Trọng Vinh (vinhnt44)

KOLs



Le Quang Hieu
Viettel



Nguyen Trong Đăng Trình
VietOpenInfra



To Thanh Cong
MBBank

Phase 1 (~ 5 weeks)

1. Course overview
Virtualization, Container, Docker
Automation, configuration management tools
2. IaaS – OpenStack
3. PaaS – Kubernetes
4. Microservices & Cloud-native application
Monitoring, Telemetry, Observability
5. Discussions

Phase 1 – Chapter 1.1

- Virtualization
- Cloud
- Container
- Docker

Phase 1 – Chapter 1.2

- Automation
- Configuration management tools overview
- Ansible
- 1st assignment

Phase 1 – Chapter 2.1

Infrastructure as a Service

- IaaS overview
- OpenStack overview
- OpenStack Networking
- OpenStack Storage
- Viettel Private Clouds, Public Clouds – Quick comparison
- Autoscaling in OpenStack
- Tuning and gotchas
- 2nd assignment

Phase 1 – Chapter 2.2

SDN-NFV

- SDN overview
- SDN case study
- Vision and NFV
- NFV vs SDN
- NFV-MANO use case

Phase 1 – Chapter 3

Platform as a Service

- PaaS overview
- Kubernetes overview
- Architecture, deployment
- Kubernetes Networking, CNI
- Kubernetes Resources
- Stateless, stateful applications
- Autoscaling in Kubernetes
- Service Mesh
- 3rd assignment

Phase 1 – Chapter 4

Applications

- Microservices
- Cloud-native applications
- CI/CD
- Monitoring
- Telemetry
- Observability
- Prometheus stack
- Grafana
- EFK, ELK, PLG
- 4th assignment (final)

Phase 1 – Chapter 5

- Discussions
- Q & A
- Summary

Phase 2 (12 – 18 weeks)

- Real projects
- VTNNet, VHT, VTS, Ban CNTT Tap đoan
 - Automation
 - OpenStack cloud
 - Kubernetes platform
 - Monitoring, telemetry, observability
 - Microservices, cloud-native application
 - CI/CD



TẬP ĐOÀN CÔNG NGHIỆP - VIỄN THÔNG QUÂN ĐỘI
TỔNG CÔNG TY MẠNG LƯỚI VIETTEL



HỘI THƯỜNG