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SOTATEK CLOUD

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Contents

I Cloud Division Introduction

II Services Offering

III List Of Portfolios

IV Architecture References

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I. CLOUD DIVISION

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Team Structure Introduction

Mike Le

- Experiences: 13 years
- Work history: VNPT→Sun*→FPT→SOTATEK。
- Biggest Clients:
  + Alcatel Lucent (Nokia) (Mobifone Intelligent Billing Network)
  + Genesys:(ACB Bank Contact Center & Home Credit Contact Center)

Rafael Nguyen

- Experiences: 12 years
- Work history: VNPT→CMC Global→SOTATEK。
- Biggest Clients:
  + Alcatel lucent (Nokia) (Mobifone Intelligent Billing Network)
  + Genesys:(ACB Bank Contact Center)

Lucas Le

- Experiences: 8 years
- Work history: NCC ASIA→SOTATEK。
- Biggest Clients:
  + Yogiyo (SRE Lead)
  + BizflyCloud - (Infra Lead)

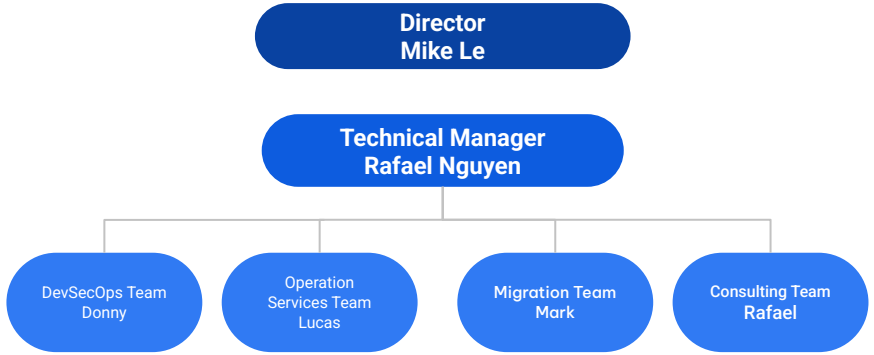
Donny Tran

- Experiences :7 years
- Work history: NCC Asia →SOTATEK。
- Biggest Clients:
  + X-AI Technology (SA & Devops Lead)
  + Kaia (Kaytn): (Devops Lead)

Mark Nguyen

- Experiences: 9 years
- Work history: NAL JSC→CMC →SOTATEK
- Biggest Clients:
  + VN Gas Company: (DevOps Lead)
  + Chain.com (DevOps Lead)
  + CloudMile (DevOps)

Team Structure



Achievements

Cloud Division Capacity

Our objective is to:

- Ensure a well-architected design for our clients' IT infrastructure
- Enable seamless operations and minimizing risks

Consulting	Assessing the current environment, identify gaps, and suggest best practices and innovative solutions to meet organizational goals.
Planning	Determining resource allocation, budgeting, timelines, assessing risks, and processes.
Implementing	Installing new resources, configuring software, integrating systems, and ensuring all components work together seamlessly.
Operating	Monitoring, troubleshooting, and ensuring security and compliance.

Key Services

Cloud Consulting	DevSecOps Technical Service
Cloud Operation Services	Cloud Migration Services

20 Cloud Engineers

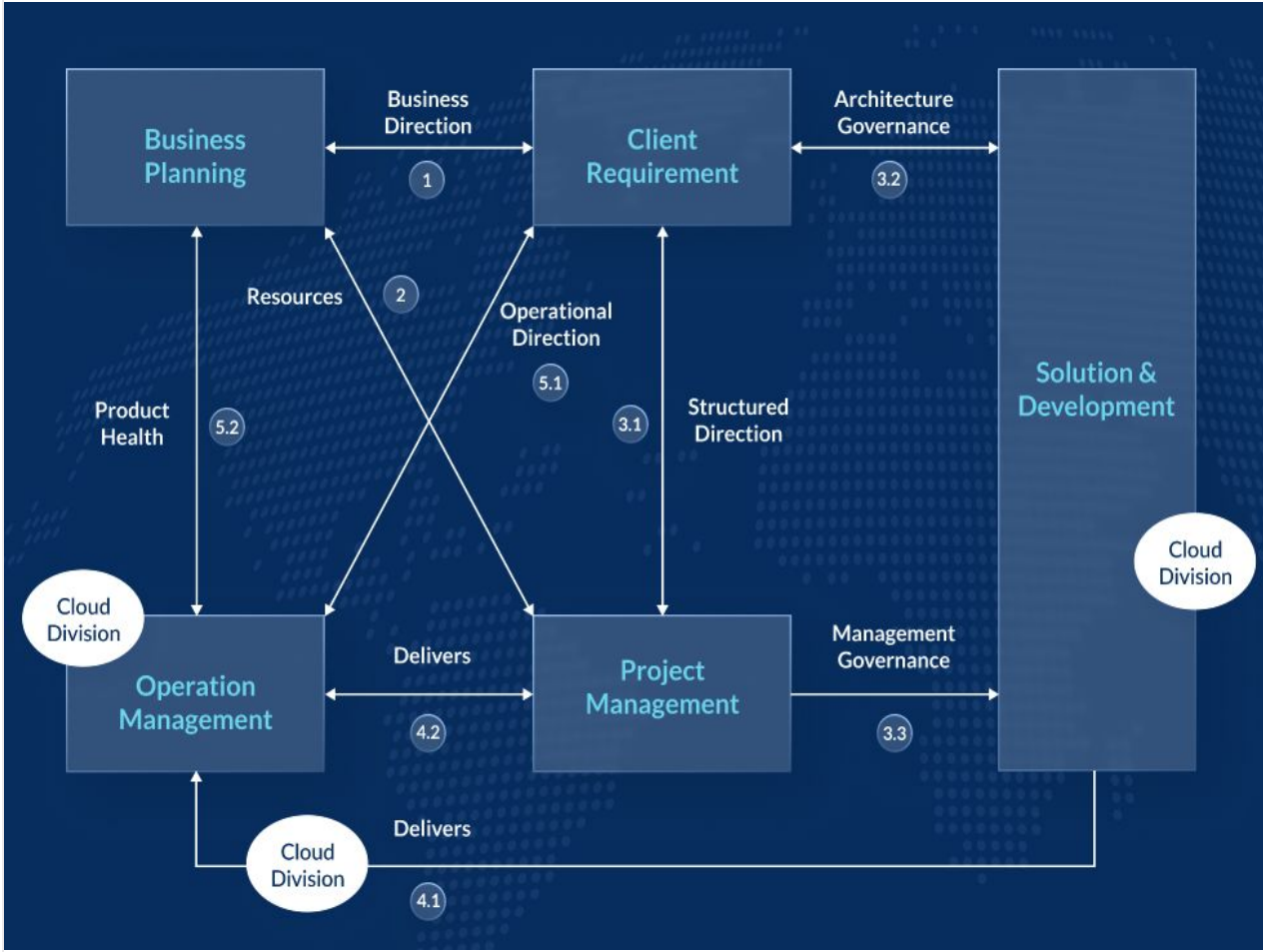
30 DevOps Engineers

8 Site Reliability Engineers

3 Security Engineers

5 MLOps Engineers

Cloud in Software Delivery model



Solution & Development:

- Cloud Infrastructure SA for **pre-sale** phase
- Infrastructure planning

Delivers

- **DevOps Role:** CI/CD, Automation, leverage cloud services etc.
- **Cloud SA:** Consulting, Audit environment etc.

Operation

- **SRE:** Monitoring, operate your product 24/7

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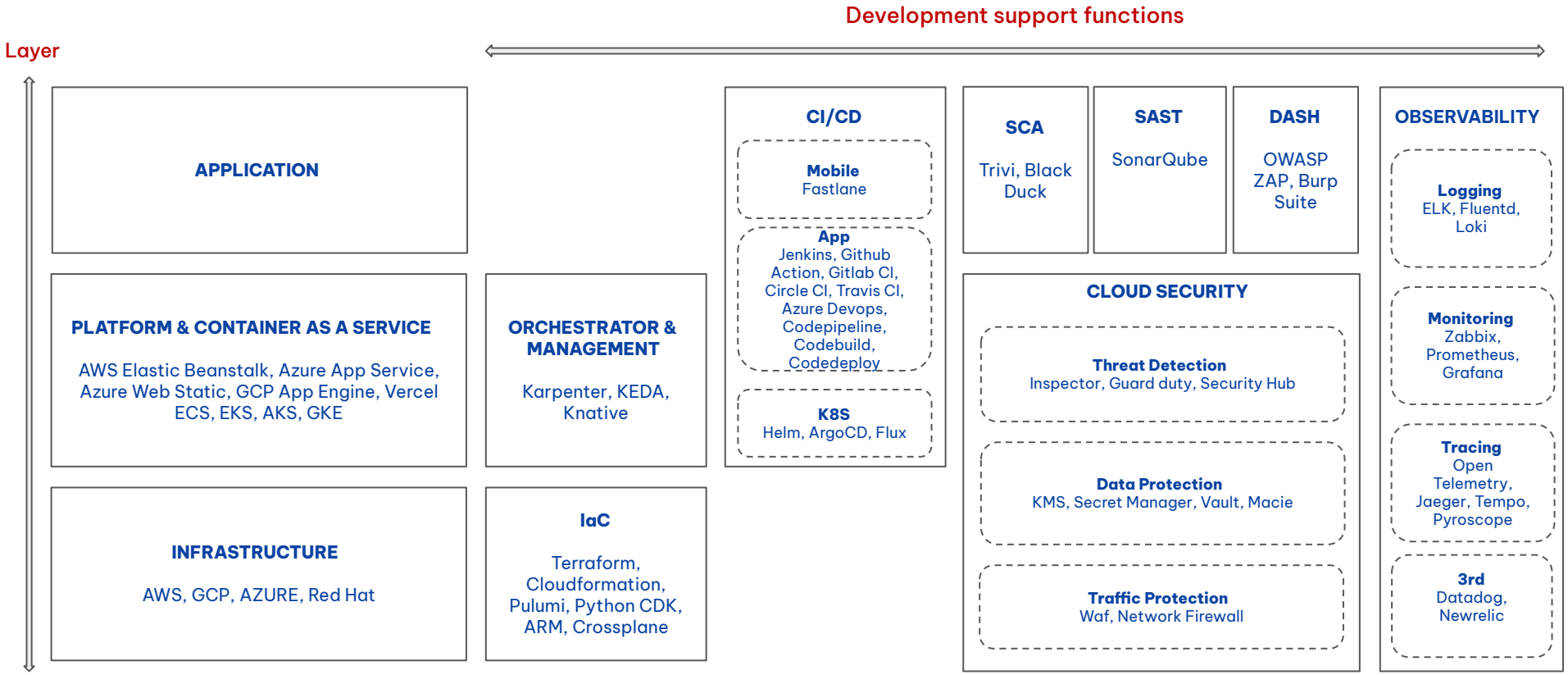
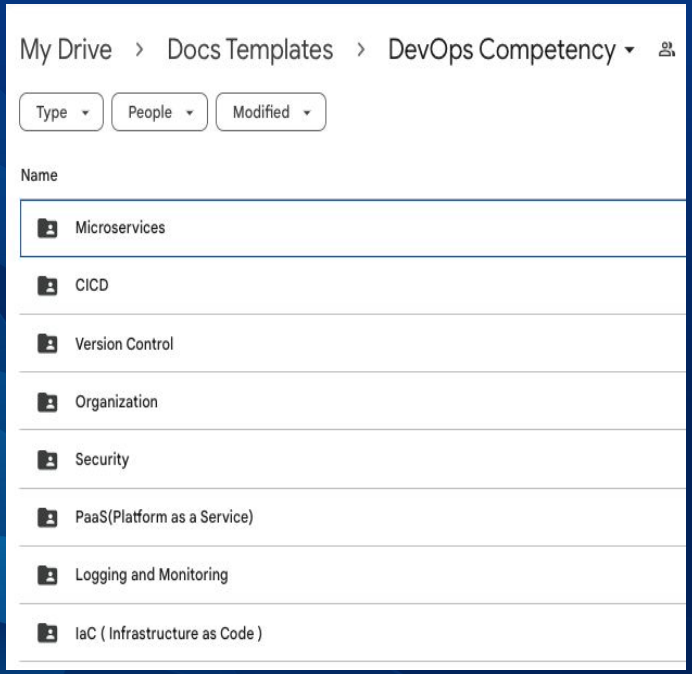
Cloud Division's Technology Landscape

** Main & Frequent Technologies*



Cloud Division

Guideline & Best practice



DevOps Practice Requirements

DevOps Practice.

ID	Requirement Description	
Organizational Change		
PROC-001	**Customer Assessment of Internal Organization** Evaluates customer's internal organizational structure as basis for providing organizational recommendations to move to DevOps approaches and methodologies.	
PROC-002	**Methodology for Organizational Change Recommendations** a methodology and processes to recommend organizational changes, including identification of plans for various departments (Legal, Finance, HR, and Sales) and addressing the importance of executive	
Infrastructure as Code		
PRIAC-001	**Templated Infrastructure Provisioning** Developers and systems administrators should have an easy way to create and manage a collection of related AWS resources, provisioning and updating them in an orderly and predictable	
PRIAC-002	**Configuration Management** process to automatically collect software inventory, apply OS patches, create system images, and configure Windows and Linux operating systems. If EC2 Systems manager is not leveraged, Partner	
PRIAC-003	**Policy as Code** Partner has processes and methodologies to conduct AWS resource inventory, configuration history, and configuration change notifications to enable security and governance. If AWS Config is not	
Continuous Integration/Continuous Delivery CI/CD		
PRCICD-001	**Software Release Workflows** processes to build, test, and deploy code every time there is a code change, based on pre-defined release process models. AWS Partner may leverage AWS CodePipeline or equivalent.	
PRCICD-002	**Build and Test Code** processes to compile source code, run tests, and produce software packages that are ready to deploy. As part of this process, processes that support provisioning, managing, and scaling servers according to needs. AWS Partners may leverage AWS CodeBuild or equivalent.	
Version Control		
PRVCL-001	**Source Control** Evidence must be in the form of demonstration and/or detailed description of how AWS Partner sets up source control systems for customers transforming to DevOps approaches	
Microservices		
PRMSC-001	Container Services/Serverless Computing evaluated and has methodologies to build and deploy microservices architectures leveraging containers or serverless computing. Evidence must be in the form of documentation of AWS Partner's	
Monitoring and Logging		
PRMLO-001	**Cloud and Network Monitoring** methodologies leveraging essential cloud and network monitoring services such as Amazon CloudWatch.	
PRMLO-002	**Distributed Tracing** methodologies leveraging AWS X-Ray to Analyze and debug production, distributed applications.	
PRMLO-003	**Activity and API Usage Tracking** methodologies for API and Activity usage tracking via AWS CloudTrail to record AWS API calls and deliver log files.	
Platform as a Service		
PRPAS-001	**Orchestration to Run and Manage Web Apps** deep understanding of and leverages AWS Elastic Beanstalk as an orchestration platform to handle deployments from capacity provisioning, load balancing, auto-scaling to application health	
Security		
PRSEC-001	**Communication of DevSecOps Best Practices** AWS Partner ensures customers understand AWS security processes and technologies as outlined [here](https://aws.amazon.com/architecture/security-identity-compli	

Cloud Division

As code Everything

sample-project-ecs-s3-cf / main.tf

Sotatek-ThaiDo Add ecr IMMUTABLE

Code | Blame | 257 lines (233 loc) · 7.05 KB | Code 55% faster with GitHub Copilot

```
module "vpc" {
  source  = "git@github.com:sotatek-cloudteam/tf-mod-aws-vpc.git//?ref=v0.0.4"
  #source = "../../modules/tf-mod-aws-vpc"
  name    = "${var.env}-${var.project}-vpc"
  team    = var.team
  project = "${var.project}"

  cidr_block = "10.0.0.0/16"
  azs        = ["us-east-1a", "us-east-1b"]
  public_subnets = {
    name        = "public"
    cidr_blocks = ["10.0.0.0/24", "10.0.1.0/24"]
  }

  private_subnets = {
    name        = "private"
    cidr_blocks = ["10.0.2.0/24", "10.0.3.0/24"]
  }
}

module "ecr" {
  source = "../../modules/tf-mod-aws-ecr"
  #source = "git@github.com:sotatek-cloudteam/tf-mod-aws-ecr.git//?ref=v0.0.0"
  team    = var.team
  project = var.project

  name = "${var.env}-${var.project}-ecr"
  image_tag_mutability = "IMMUTABLE"
  enable_scanning = true
  aws_account_ids = [
    "${var.account_id}"
  ]
  enable_life_cycle_policy = true
  tagWildcard = ["be-api*","fe*"]
}
```

All

tf-

35 repositories

tf-mod-aws-codepipeline Private
HCL · 0 · 0 · 0 · 0 · Updated last week

tf-mod-aws-ecs Private
Terraform module which creates ECS (Elastic Container Service) resources on AWS.
HCL · 0 · 0 · 0 · 0 · Updated last week

tf-mod-aws-route53 Private
HCL · 0 · 0 · 0 · 0 · Updated last month

tf-mod-aws-codebuild Private
HCL · 0 · 0 · 0 · 0 · Updated on Oct 25

tf-mod-aws-ecr Private
HCL · 0 · 0 · 0 · 0 · Updated on Oct 24

tf-mod-aws-s3-cf Private
Terraform module which creates S3 static page and CloudFront resources on AWS.
HCL · 0 · 0 · 0 · 0 · Updated on Oct 23

tf-mod-aws-vpc Private
HCL · 0 · 0 · 0 · 0 · Updated on Oct 22

tf-mod-aws-packer Private
Using packer to build custom-based AMI
HCL · 0 · 0 · 0 · 0 · Updated on Oct 21

tf-mod-aws-ssm Private
AWS SSM terraform modules
HCL · 0 · 0 · 0 · 0 · Updated on Oct 18

tf-mod-aws-ec2 Private
HCL · 0 · 0 · 0 · 0 · Updated on Oct 17

tf-mod-aws-lb Private
HCL · 0 · 0 · 0 · 0 · Updated on Oct 16

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SERVICE OFFERING

Cloud Consulting Service

DevSecOps Technical Service

Cloud Managed Services

Migration Service

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Cloud Consulting Service

Key Features

1.
   Architecture Auditing and Enhancing

2.
   Cloud Roadmap and Strategy Development

3.
   Security and Risk Assessment

4.
   Optimizing Cloud Infrastructure

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DevSecOps Key Features

Continuous Integration and Continuous Delivery (CI/CD)

Infrastructure Automation & Management
Provision and Manage Infrastructure Automatically using Code

Security & Compliance Enhancing

Containerization & Orchestration

Monitoring, Logging and Tracing

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Cloud Operation Services Key Features

1. Security and Access Management
2. Cloud Infrastructure Management
3. Cloud Cost Optimization
4. Cloud Security Monitoring & Remediation
5. Data Backup and Recovery
6. Comprehensive Infrastructure Monitoring
7. System Monitoring, Patching & Maintenance
8. Application Release Supporting
9. 24x7x365 Support & Incident Response

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Migration Use Cases

1. Moving on-Premise to Cloud
2. Legacy Application Modernization
3. Moving Cloud to Cloud
4. Hybrid Migration

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III. DETAILED PORTFOLIOS

- Cloud Consulting: Link
- DevSecOps: Link
- Cloud Operation Service: Link
- Cloud Migration: Link

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IV. REFERENCE ARCHITECTURES

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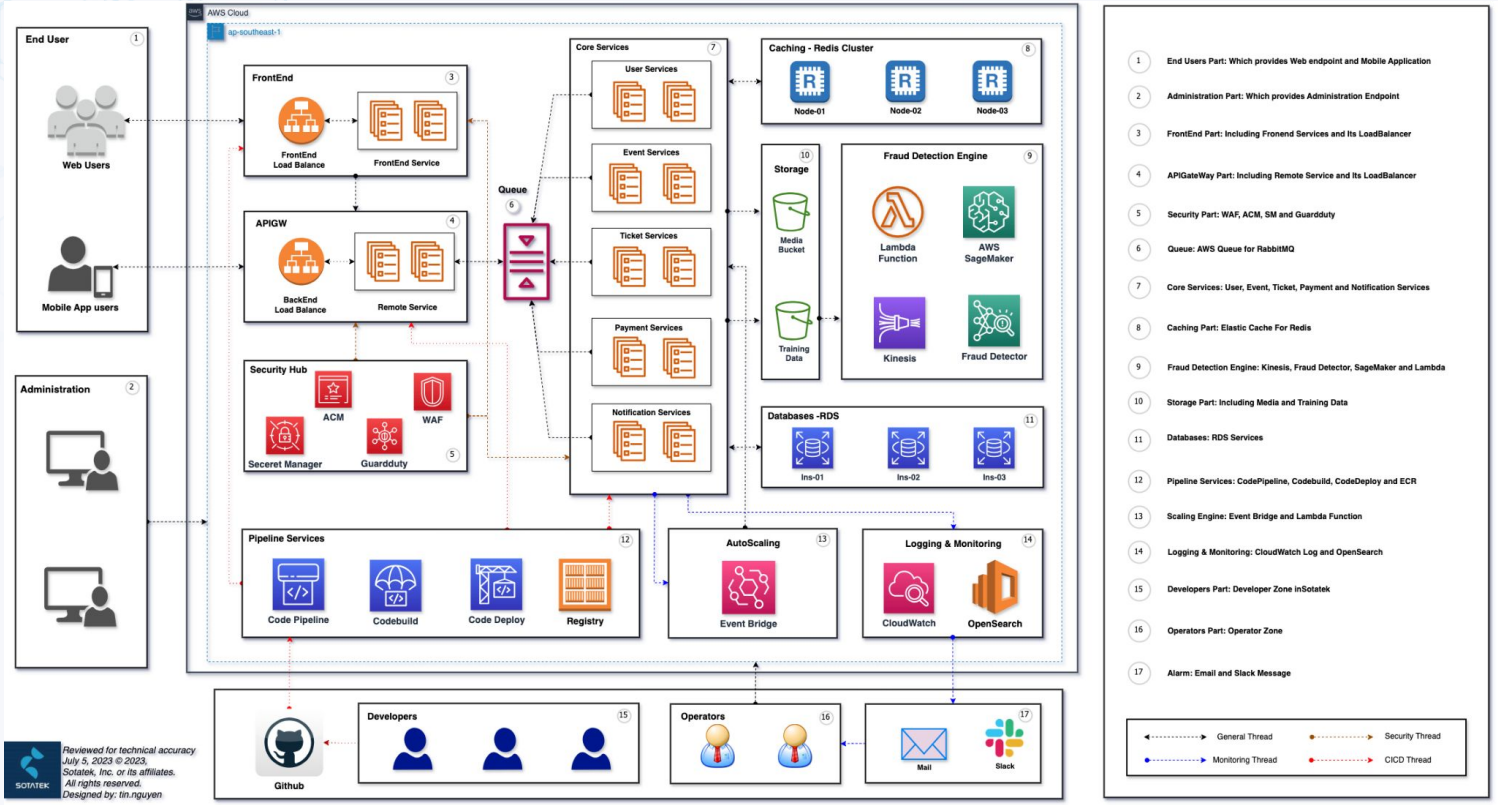
1. Livepass: Online Ticketing platform



Reviewed for technical accuracy
July 5, 2023 © 2023,
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Designed by: tin.nguyen

Fig: LivePass Architect Proposal

CLIENT **ISSUES:**

Client has many relation in concert, festival, sport event domain. They have an idea to build ticket platform for booking online. However, they lack of development, support resources to make that idea become product.

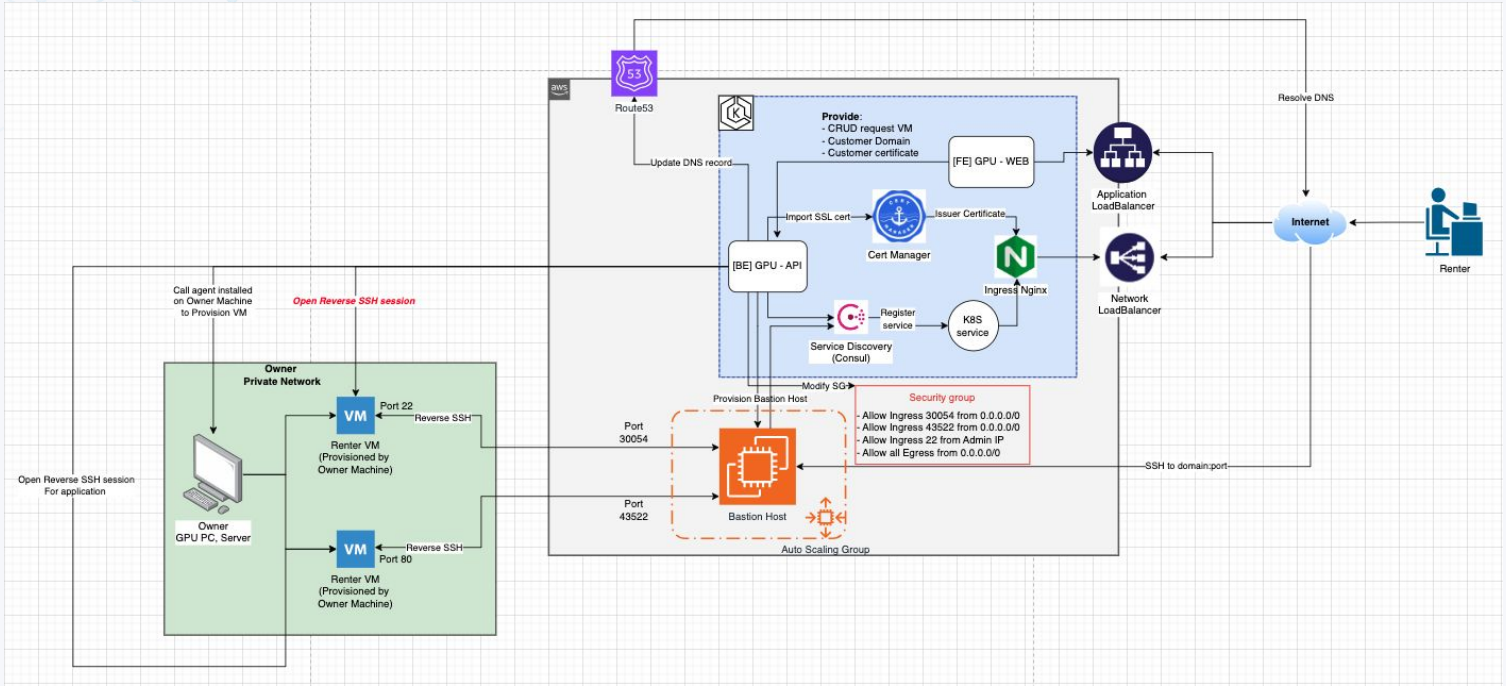
Our Cloud Team actions:

After Business Consultant, Software SA discussed with the client, client's vendor to clear business flows, expected user stories => **Input**: Conceptual Architecture, Logical Flow, Non-functional objectives.

Cloud Division has completed:

Cloud, DevSecOps technologies design
Infrastructure as code implementation
Dockerfile managing
DevSecOps implementation
System integration
Enhancing security, scalability, observability.

2. X-AI Technology: Distributed GPU machine managing system



CLIENT **ISSUES:**

Client has already implemented market research. Then, they told that "we want a system like this website". Very short description …

Our Cloud Team actions:

Cloud Technical manager paired with SA to reverse"that website", to identity key technologies, key functions, keys risks … After that, it is consulting, designing, implementing, operating phase …

Cloud Division has completed:

System reverse
Cloud, DevSecOps technologies design
Infrastructure as code implementation
DevSecOps implementation
Dockerfile, Hem, Argo yaml definition
Kubernetes Setting up
Security enhancing
Auto Scaling solution

2. X-AI Technology: Distributed GPU machine managing system

CLIENT **ISSUES:**

Client has already implemented market research. Then, they told that “we want a system like this website”. Very short description …

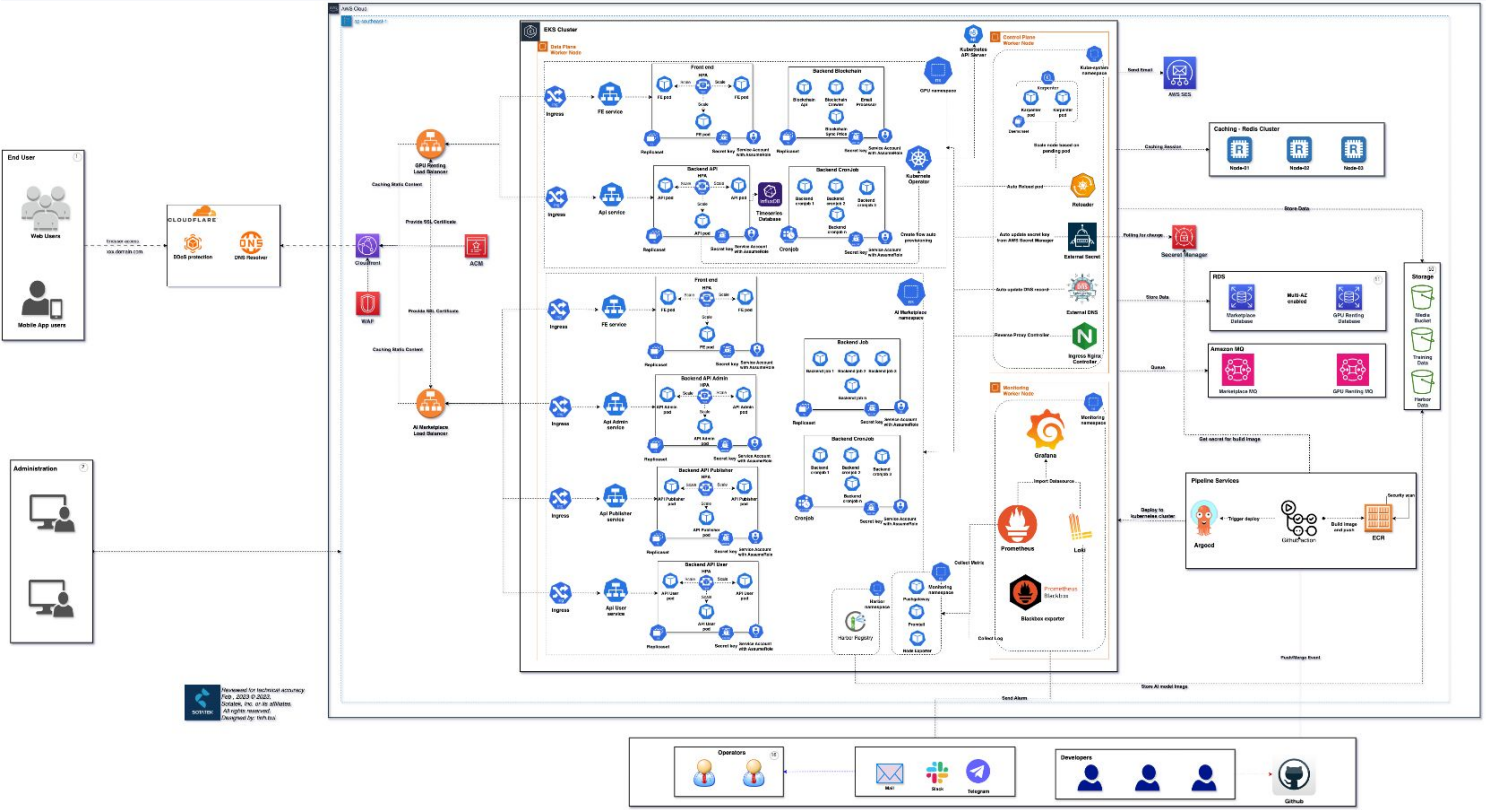


Fig: Architect Proposal

Our Cloud Team actions:

Cloud Technical manager paired with SA to reverse“that website”, to identity key technologies, key functions, keys risks … After that, it is consulting, designing, implementing, operating phase …

Cloud Division has completed:

System reverse
Cloud, DevSecOps technologies design
Infrastructure as code implementation
DevSecOps implementation
Dockerfile, Hem, Argo yaml definition
Kubernetes Setting up
Security enhancing
Auto Scaling solution

3. Safere: Real Estate Investment Platform

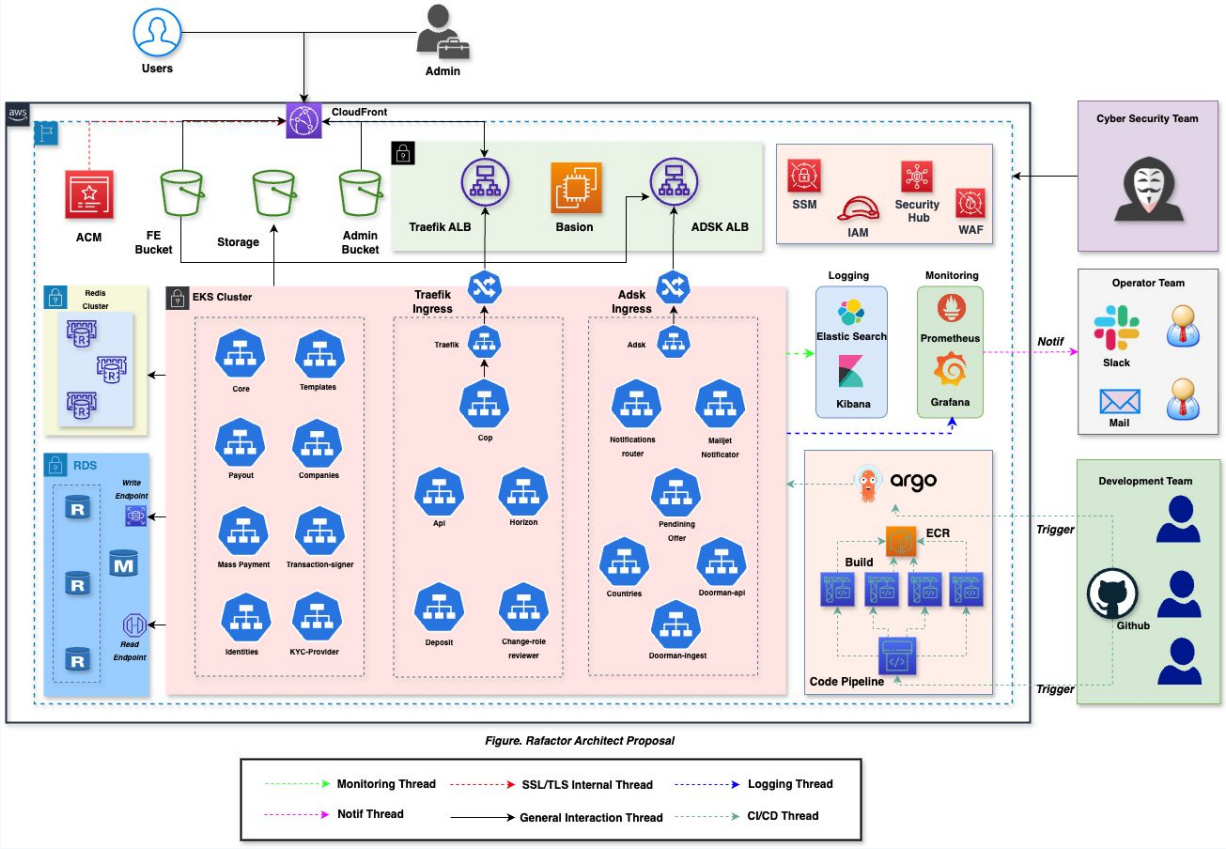


Figure. Rafactor Architect Proposal

Monitoring Thread · SSL/TLS Internal Thread · Logging Thread · Notif Thread · General Interaction Thread · CI/CD Thread

CLIENT **ISSUES:**

Client has existing investment platform on VMs and they want to move the platform to Cloud but they don't know how to do that.

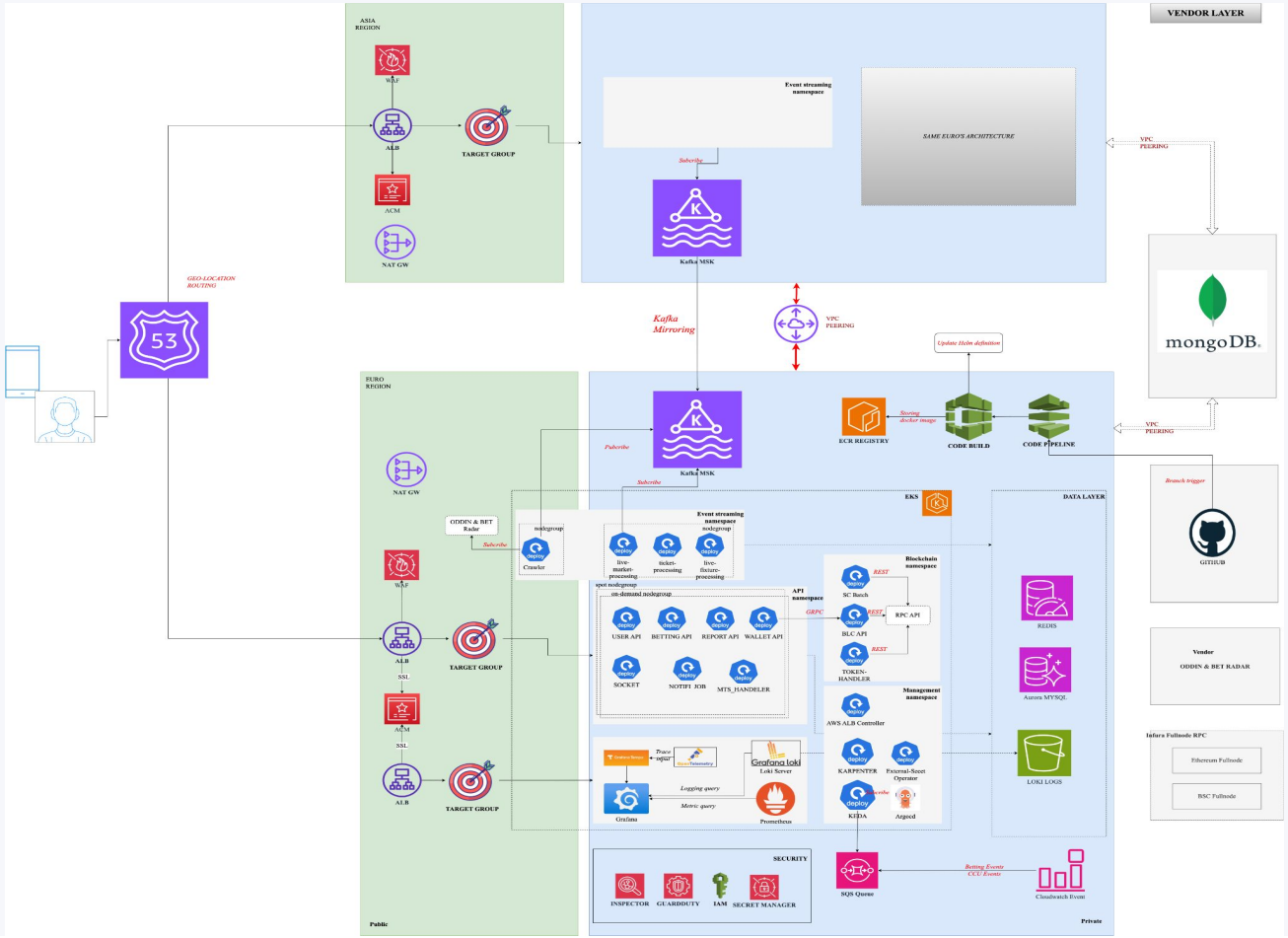
Our Cloud Team actions:

Assessed the existing infrastructure, redesigned it for improved performance, and deployed the new architecture on AWS using best practices for scalability, availability, and security …

Cloud Division has completed:

AWS Organization and Infrastructure Design
Planning and Deployment
Delivery Logging, Monitoring
Incident Management
Cost Optimization

4. Ubet: Sport betting system



CLIENT **ISSUES:**

Client is a sport betting platform, they want to extend their business with new idea “Betting on blockchain networks, end-users will deposit/ withdraw/ bet by a client own blc token”. However, they lack of experience & resources on blockchain.

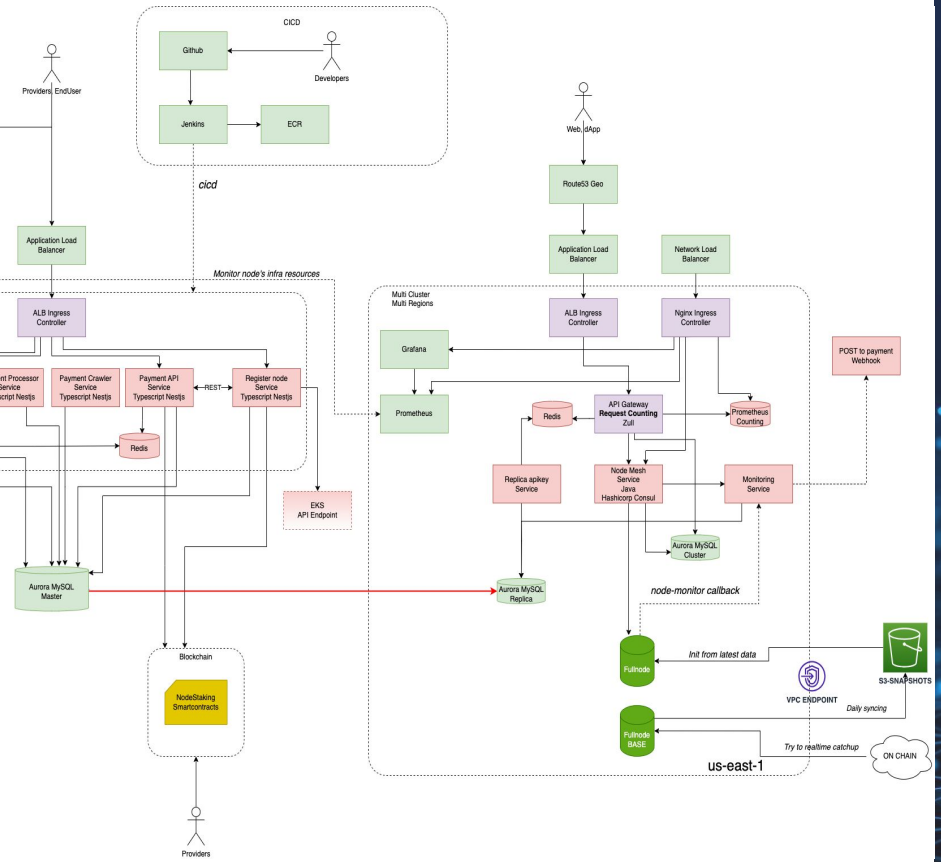
Our Cloud Team actions:

Based on conceptual architecture & Logical flow from consulting team. Cloud team has picked cloud technologies, cloud architecture, DevOps pipeline, Cloud Security … to fit project’s objectives.

Cloud Division has completed:

- AWS infrastructure design
- Setting up infrastructure by IaC
- DevSecOps Pipeline implementation
- Enhancing observability & security pillars.
- Product maintenance.

5. Chain Protocol: RPC Full Node as a service



Chain Protocol

Project Information:

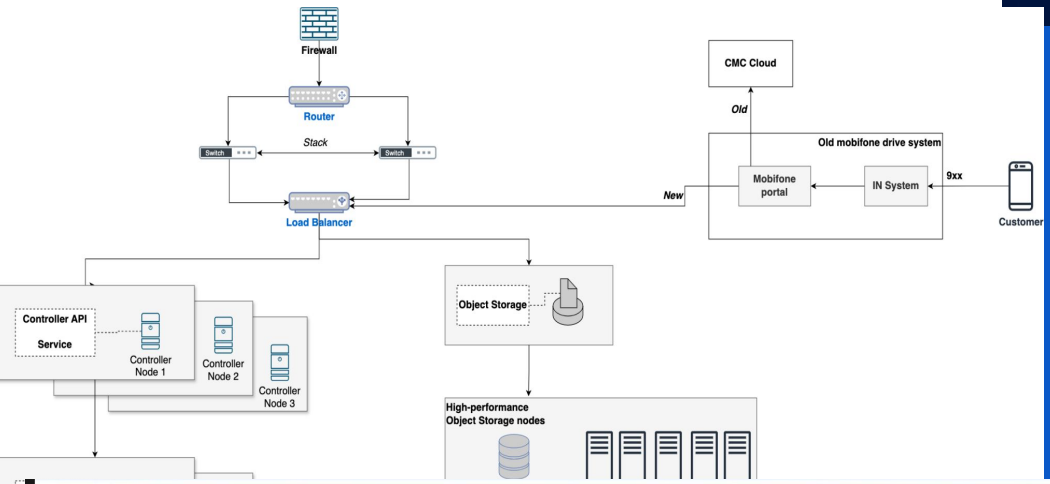
- **Type**: infrastructure as a service
- **Info**: *Build a IaaS that provides RPC json API to blockchain development teams as a service. This system will provide infrastructure (Computing, Storage, Network, Blockchain runtime) automatically. Besides, authentication, authorization, accounting is applied as functionalities.*
- **Website**: *https://chain.com/cloud*
- **Duration**: 1 year
- **Team size:** 60 hcs (1 Cloud SA, 3 devops, 2 sre, 1 software SA, 3 devlead, 40-50 developers)
- **Scopes**: Consulting + Planning + Implementing + Training

Technologies

- Amazon web services, Terraform, Ansible, Python for Automation Scripts, Jenkins, API GW Netflix Zull, Service Mesh Consul, Jaeger, Prometheus, Grafana, kubernetes, Docker, heml.
- Language: Go, Python,Java, Reactjs, Solidity

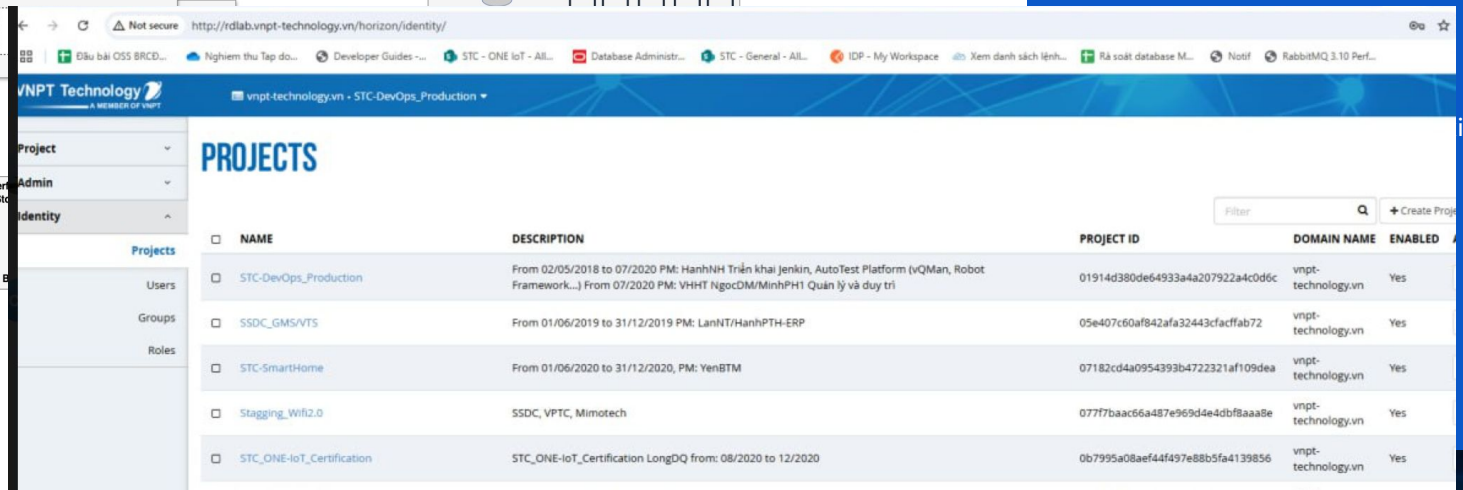
6. IaaS - Openstack

VNPT-Tech Openstack



Project Information:

- **Type**: infrastructure as a service
- **Info**: Build a IaaS based on Openstack Open Source for VNPT-Tech company. It will help IT Team provides infra resources to other departments as a service.
- **Website**: *https://rdlab.vnpt-technology.vn*
-
- **Duration**: 8 months
- **Team size:** 14 hcs (1 PM, 1 Teachlead SA, 5 infrastructure engineers, 8 software engineer)
- **Scopes**: Consulting + Planning + Implementing + Training



ins, Ceph Storage, KVM for