

# 30% Cost Savings using Microservices with Kubernetes for a Telecom Company



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## ABOUT THE CUSTOMER

Our client is a leading telecom distributor in the Middle East operating across many countries like Saudi Arabia, Oman, and Bahrain with over 6000 subscribers. They provide Mobile computing, Internet and Television services.



## CHALLENGES

The client faced the following challenges:

- Frequent changes in the application causing delay in delivery
- Managing resources leading to high costing
- Spikes in usages causing outages
- Scalability and performance issue

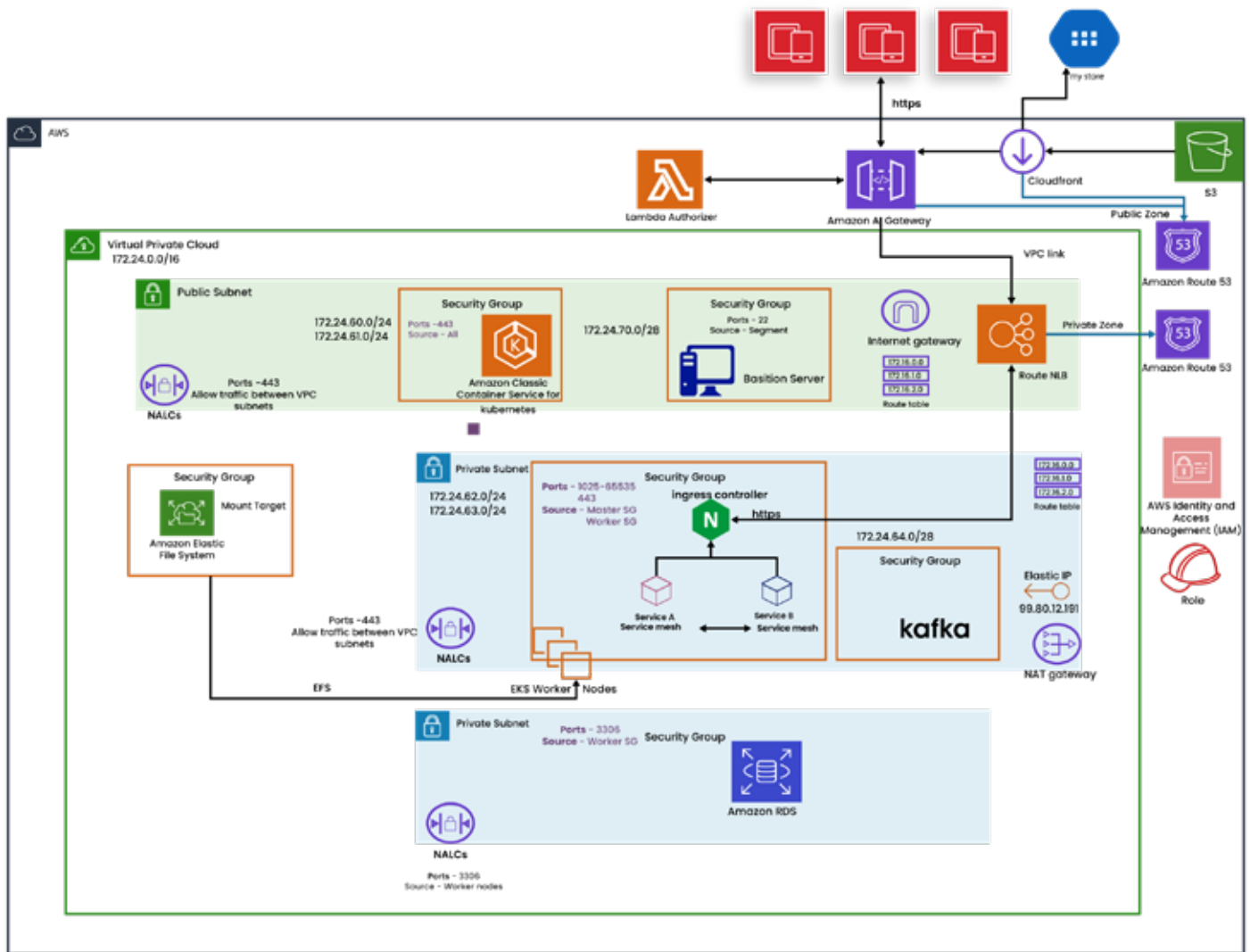
### **Tools and Technologies**

- EKS for AWS based Kubernetes managed services
- Cloudformation for IaC
- Helm Charts- Packaging and deployment
- Jenkins- Pipeline development and end to end CI/CD
- Gitlab for Source Code Management

# SOLUTION

With the size of application, our experts had to containerize it by segregating the modules into compartments to create it as microservices. The applications were deployed over EKS that provides inbuilt service registry and easy integration of API gateway. Thus, making it simple to deploy, manage and scale the applications. This results in strong auto scaling.

# DIAGRAM





## RESULTS

With the solution provided, the client got the following benefits

- Quicker delivery in short time span
- 30% cost saved on resource addition
- 25% cost saved on continuous testing implementation
- Saved effort and time through containerization to manage application operation
- Provided more control in release and configuration management



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