Kubernetes Lab

Case Study: Infrastructure for a Growing EdTech Startup

Company Edtech Startup   Location Redmond, USA   Industry Educational Software
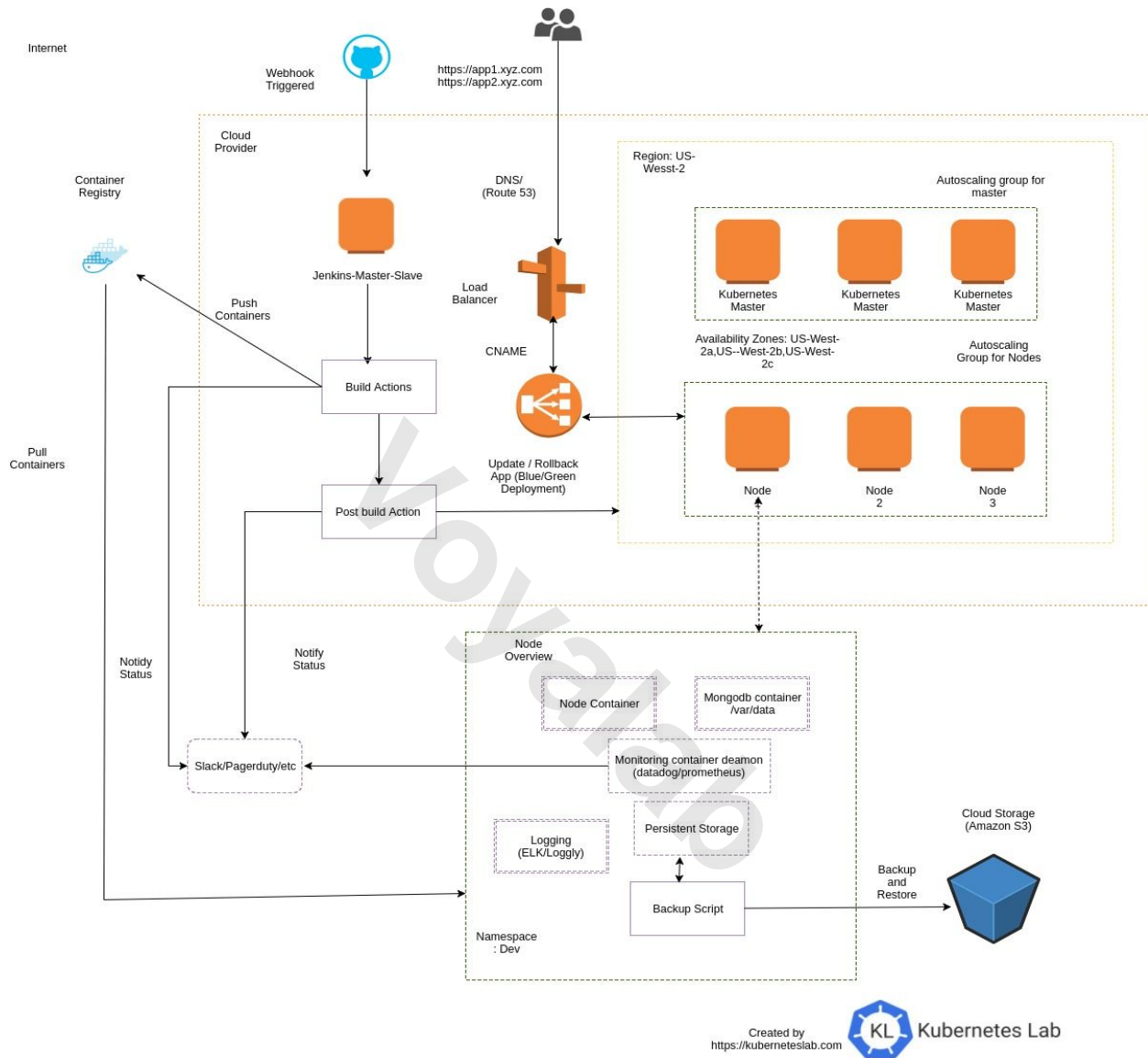
Challenge

The infrastructure was deployed on the AWS. For the growing user base, it has been difficult to scale the application according to requirements which were affecting the new features delivery. Tracing, Monitoring and Troubleshooting becomes difficult in terms of the government managed servers. Security and data security has one of the most important aspects.

Solution

The decision was made to make application containerize and using the Kubernetes as container orchestration tool. Prometheus and Datadog are used for the operation intelligence and monitoring.

Architecture:

Impact

The new cloud-native solution pushed the agile way of the software development. The Kubernetes advantage of the handling containers increased the availability of the application. The new approach improved the software development stack. With the adoption, it's become easy to scale up and scale down the application using just Kubernetes yaml.