

## 2.0 Conclusion

Most often, DevOps provides deployment automation of applications, like in the current project, into defined infrastructure from the beginning of the development cycle and provides continuous integration and delivery. This is what we've done here, except that we participated in the development because our application was already developed. All the scripts and scenarios had already been written in advance. All of that was needed to figure out how to adapt the whole project to our educational environment and then deploy it.

As you can see, this application is based on multi-service architecture and has strong integration with AWS cloud infrastructure, which is described as code in a declarative way. We recommend that you always use this approach when you need to provision and interact with infrastructure **automatically**.

Working on this project, we have learned how to configure and deploy infrastructure using IaC Terraform and Helm charts and install production-ready applications into ready infrastructure via CICD. We gained practical skills from the technologies that were involved in the current stack. We checked the application and cluster where it was deployed and tested each step of the application functionality. Also, we traced objects' movement between services while the application was running. As a result, we gained practical skills in deploying such applications. We looked at how to change the source code if necessary and how to interact with the CI/CD system.

Our team has prepared a screen recording of the end-to-end deployment process for you.

### What's next

We recommend you create your own project using the examples you have seen in this project. Create a web application from scratch and describe the infrastructure in a declarative way, then deploy the entire stack automatically.

But We're not developers, so why would we write a web application from scratch? Typically, those who can write web applications themselves will find it easier to integrate them into infrastructure and understand the entire DevOps methodology.

It's not necessary to create complex applications. Make it simple, just like in our example, or simpler. Furthermore, having programming skills can prove to be very useful in the DevOps engineering field. Creating your own applications can help you stay in touch with the developers you work with.