I'm starting the 7-Day DevOps challenge!

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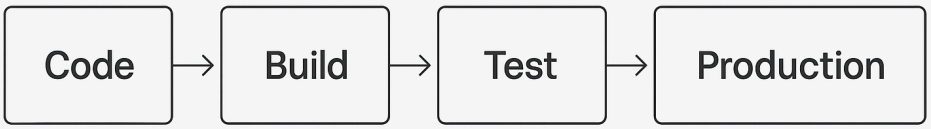
I'm building a CI/CD pipeline in 7 days

In this DevOps challenge, I'm learning how to build a complete CI/CD pipeline using AWS services. Over the 7 days, I will work through hands-on projects that cover setting up a web application in the cloud, connecting it with a GitHub repository, storing dependencies in CodeArtifact, packaging the app with CodeBuild, deploying it with CodeDeploy, automating infrastructure with CloudFormation, and finally bringing it all together with CodePipeline. By the end of the 7 days, I will have a working pipeline that takes code from commit to production automatically, along with 7 pieces of documentation to showcase in my portfolio.



Hold me accountable!

I will set aside at least 1-2 hours every day for a week to work on this challenge, making sure I complete each project step by step without skipping ahead. I will keep myself accountable by tracking my daily progress, writing notes on what I've learned, and sharing updates with my peers or study group. My reward for completing this DevOps challenge will be a stronger DevOps portfolio with real, hands-on projects that I can showcase to future employers, as well as the personal satisfaction of building a complete CI/CD pipeline from start to finish.

What is DevOps?

DevOps is a set of practices, tools, and a cultural mindset that bridges the gap between software development (Dev) and IT operations (Ops). The goal of DevOps is to shorten the software development lifecycle, deliver features, fixes, and updates quickly, and ensure high quality through automation and continuous feedback. DevOps engineers implement practices like Continuous Integration and Continuous Deployment (CI/CD), automated testing, infrastructure as code, monitoring, and collaboration between teams. This approach helps organisations release software faster, more reliably, and with improved alignment between developers, operations, and business goals.

What is CI/CD?

CI/CD stands for Continuous Integration and Continuous Deployment (or Continuous Delivery). Continuous Integration is the practice of frequently merging code changes into a shared repository and automatically testing them to catch issues early. Continuous Deployment extends this by automatically releasing the tested and validated code into production, while Continuous Delivery means the code is always ready to be deployed with one click.

This process helps teams by reducing manual work, lowering the risk of errors, increasing release speed, and ensuring that software updates are delivered to users more reliably and consistently.

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Excited to share my progress - do this challenge with me!