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Introduction to Blue Green Deployments

Seamlessly switch between app versions with Blue Green Deployments.

DEFINITION

Blue Green Deployments are a strategy for releasing software where two identical environments are used. One environment (blue) runs the current version, while the other (green) runs the new version, allowing for easy switching and rollback.

KEY CONCEPTS

Two Environments

Blue and green environments allow for parallel deployment of application versions.

Zero Downtime

Users experience no downtime during the switch between versions, enhancing reliability.

Easy Rollback

If issues arise, switching back to the blue environment is quick and simple.

Traffic Switching

Traffic is directed to the green environment once it is verified to be stable.

Testing in Production

The green environment can be tested in real-time without affecting the blue environment.

EXAMPLES

→ Deploying a new feature on the green environment while blue serves existing users.

→ Switching traffic to green after successful testing, ensuring a smooth transition.

→ Rolling back to blue if the green version encounters critical bugs.

MEMORY TIPS

★ Think of blue for the current version and green for the new version.

★ Remember 'Blue is stable, Green is new' to differentiate environments.

★ Visualize a toggle switch to recall the easy traffic switching process.

COMMON MISTAKES

✗ Neglecting to test the green environment thoroughly before switching traffic.

✗ Assuming users will not notice minor issues during the transition.

✗ Failing to have a rollback plan in case of deployment failures.

QUICK RECAP

Blue Green Deployments use two environments to ensure smooth software releases. By allowing easy switching and rollback, they minimize downtime and enhance user experience.