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Introduction to Blue Green Deployments

Seamless Deployments with Blue Green Strategy

DEFINITION

Blue Green Deployments are a release management strategy that reduces downtime and risk by running two identical production environments. One environment is live while the other is idle, allowing for quick rollbacks if needed.

KEY CONCEPTS

Two Environments

Blue Green Deployments use two separate environments, typically called 'Blue' and 'Green'.

Traffic Switching

Once the new version is ready, traffic is switched from the old environment to the new one.

Rollback Capability

If issues arise, traffic can easily be redirected back to the previous environment.

Zero Downtime

This strategy allows for updates without any downtime for users.

Testing in Production

The idle environment can be used for testing the new version before going live.

EXAMPLES

- Deploying a new web application version with Blue as live and Green as idle.
- Switching user traffic from Green to Blue after successful testing.
- Rolling back to Blue if Green encounters errors post-deployment.

MEMORY TIPS

- ★ Think of Blue and Green as two sides of a coin—one is always up.
- ★ Remember: 'Switch to the Green side' when deploying new features.
- ★ Visualize a traffic light—Green means go, Blue means backup.

COMMON MISTAKES

- ✗ Neglecting to test the idle environment before switching traffic.
- ✗ Failing to monitor the new environment after the switch.
- ✗ Assuming the rollback process is automatic without proper setup.

QUICK RECAP

Blue Green Deployments enhance deployment safety by using two identical environments. This strategy allows for seamless traffic switching and quick rollbacks, minimizing downtime and risk.