

Dev vs Ops vs DevOps - A Quick Note

Development Team - What They Do

- Write code for new features and bug fixes
- Design software architecture
- Perform unit and integration testing
- Use version control (like Git)
- Collaborate with QA to ensure code quality
- Deliver builds for deployment

Goal: Build functional, user-friendly, and high-quality software

Operations Team - What They Do

- Set up and maintain servers and infrastructure
- Deploy software to production environments
- Monitor system performance and uptime
- Handle outages and incidents
- Ensure security and backups
- Scale systems to meet traffic demands

Goal: Keep the system running securely, reliably, and efficiently

How DevOps Helps - Bridging Dev & Ops

DevOps brings both teams together with:

- Better collaboration and communication
- Automation of builds, testing, and deployments (CI/CD)
- Faster delivery of updates and fixes
- Infrastructure as Code (IaC) for consistent environments
- Monitoring and feedback loops to quickly detect and resolve issues

Goal: Deliver software faster, with fewer errors, and more stability

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Summary Table

Aspect	Development Team	Operations Team	
Focus	Building software	Running and maintaining software	Bridging
Main Work	Code, design, testing	Servers, deployment, monitoring	Automate
Tools (examples)	Git, IDEs, JIRA	Docker, Kubernetes, Prometheus	Jenkins,