DevOps Maturity Model

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Maturity Level	Teamwork and Collaboration	Design and Architecture	Build and Deployment	Quality Assurance and Validation	Data, Metrics, and Insights
Base	Silos exist between development and operations, with minimal collaboration and automation. Processes are primarily manual and prone to errors	Design and architecture are ad hoc, lacking standards or guidelines	Build and deployment processes are manual and time-consuming, with high error risk	Testing is manual, and releases occur infrequently	Limited data collection and reporting; insufficient use of data for continuous improvement
Beginner	There's awareness of DevOps principles, with initial efforts to break down silos and improve collaboration between development and operations	There's some movement toward microservices, initial use of version control, and configuration management	Basic automation of build and deploy processes reduces failures	Introduction of automated unit and integration testing, and the adoption of a primary CI/CD pipeline	Data collection and reporting increase, but data usage for continuous improvement is in its early stages
Intermediate	Strong collaboration between development and operations is evident, and a DevOps culture is taking root	Adoption of microservices architecture, configuration as code, and containerization	Automation matures with infrastructure as code, resulting in frequent and reliable releases	Comprehensive test automation, including security and performance testing, through an advanced CI/CD pipeline	Comprehensive monitoring and real-time reporting with enhanced transparency
Advanced	Teams are fully aligned with DevOps principles, embracing continuous improvement and a learning culture	Advanced use of microservices and serverless architecture, along with advanced security practices. Infrastructure is managed as code	Full automation, self-service, and self-healing capabilities lead to blue-green and canary deployments	Automated testing is integral throughout the development lifecycle, ensuring thorough testing before deployment	Data is collected and processed in real-time for issue identification and resolution, with continuous improvement integrated into all processes
Expert	DevOps is a core competency enabling rapid and reliable delivery of services and products to customers	Continued advanced use of microservices and serverless architecture, coupled with advanced security practices	Build and deploy processes are fully automated and seamlessly integrated with CI/CD pipelines, enabling on-demand releases	Complete test automation, including continuous security and performance testing, is coupled with advanced observability	Data is gathered and processed in real time to identify and resolve issues, and the concept of continuous enhancement is deeply ingrained in every procedure

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