

GitHub Co-Offerings

Digital Engineering & Assurance

December 2024

GitHub Ecosystem Maturity Model





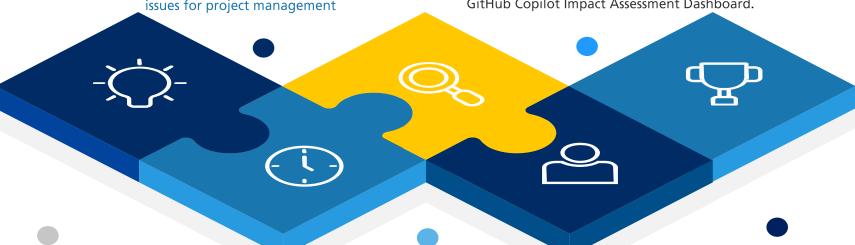
Stage 2: ADAPTED

Transition from other CI/CD tools to via GitHub Actions Defined a release plan Leveraging GitHub Codespaces and Copilot Utilizing GitHub projects and issues for project management

Stage 4: OPTIMIZED

Leveraged GitHub Insights for data-driven decisions Implemented touchless PROD deployments Minimized release failures and ensured quick failure recovery Automated test suite in pipeline

Automated GitHub operations
GitHub Copilot Impact Assessment Dashboard.



Stage 1: INITIAL

Migration from other repositories to GitHub
Established branching, merging strategy & code review processes
Controlled communication with GitHub project and issues

Stage3: DEFINED

Established benchmarks and maturity levels
Reusable GitOps workflows
GitHub advance security
Secret & code scanning
Dependabot security alerts
Centralizing build artifacts with GitHub Packages
Automated tests and releases in lower environments
Decommissioned legacy system

Stage 5: MATURED

GenAI based unit testing and code review
Implemented full code quality & security checks
Implemented gated deployment automations
Integrated monitoring tools feed to ticketing system
Continuous service improvement user stories in every release
Implemented self-service Git operations

Implemented self-service Git operations Improved knowledge sharing

Achieve Business value

- **Release Consistency**
- Release auditability and traceability
- Artifact management
- Team Productivity
 - Code quality
- Application security
- Continuous testing
- Continuous learning
- High Availability
 - Real-time Dashboards for executives & technical teams (App support, Test and Dev)

Build & Release time

Cost of release

Cost of quality



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