DevOps Technology Maturity Model

Eradani

1 MAINTAINING

Manual/Ad-hoc software development

ORGANIZATIONAL CHARACTERISTICS

- Developers move changes to production at their discretion
- "Squeaky wheel" prioritization
- Little Separation of Duties
- Limited automation

2 EXPLORING

Some defined change controls but inconsistently applied

ORGANIZATIONAL CHARACTERISTICS

- Using disparate change control tools and processes across teams
- Automating some change control processes using custom scripting
- Requiring approvals for move-to-production

3 INITIATING

Automating change control and move-to-production workflows

ORGANIZATIONAL CHARACTERISTICS

- Implementing platform-specific change control tools
- Building custom scripts to automate change processes
- Using some Open Source DevOps tools & languages (mostly for Open Source development—not for legacy code)

4 ADOPTING

Implementing consistent, automated DevOps processes across environments

ORGANIZATIONAL CHARACTERISTICS

- Integrating all change activities across the enterprise using common, popular tools for ALL development activities
- Synchronizing test and move-to-production across all platforms
- Electronically gathering approvals for reporting, compliance, and awareness

5 INNOVATING

Using automated DevOps to increase quality, productivity, and business flexibility

ORGANIZATIONAL CHARACTERISTICS

- Using container technology for deploying changes
- Creating and destroying testing environments using Environment Cloning to increase testing effectiveness and productivity
- Taking advantage of Cloud Resources for instant scaling
- Automate testing for regression, security, and license compliance
- End-to-end automation of DevOps processes

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