Definition	Practices around developing IaC	Integration and testing of infrastructure code	Using IaC to provision and configure infrastructure	Managing running infrastructure	Monitor and measure infrastructure
Area of Practice	Development	Continuous Integration	Provisioning and Configuration	Management	Observability
Level 3 - Optimizing Focus on process improvement	Continual improvement and optimization of IaC based on evolving industry standards	Continuous improvement of tests at various levels	Zero-downtime provisioning of infrastructure     Ability to automatically roll back changes     Self-service provisioning	Infrastructure is self-healing, self-configurable, and self-optimizing	Metrics are regularly reviewed     Metrics are available in real-time     Production incidents related to infrastructure are rare and always reviewed
Level 2 - Managed Processes measured and controlled	All changes are tracked in an Application Lifecycle Management (ALM) tool     All defects and bugs are tracked in the ALM	Builds are not left broken     Changes are always promoted through a consistent path to production	Ability to manually roll back changes quickly and safely	Infrastructure is highly available and fault tolerant	Automated alerting based on active monitoring     IaC processes and practices are documented and available
Level 1 - Consistent Processes characterized and proactive	All infrastructure is defined as code     All IaC under version control     Industry-standard tooling is used to write code declaratively	CI Server to pull, build, test, and publish IaC artifacts Automated tests are run for every check-in Test are run in a production-like environment	Provisioned infrastructure is a result of an automated delivery pipeline Provisioning is idempotent	Immutable infrastructure (no SSHing into boxes)     Infrastructure is reliable and performs predictably	Metrics are calculated automatically but not regularly reviewed     Centralized infrastructure monitoring and logging
Level 0 - Repeatable Processes characterized but often reactive	Infrastructure partially automated using scripts     Not all code is checked into VCS     Automation doesn't rely on industry-standard tooling	There are some IaC tests     IaC tests are only run locally	Provisioning is scripted but executed ad-hoc	Patching and upgrades are done through provisioning processes	Metrics are defined, but no way to collect or consistently measure
Level -1 - Regressive Processes unrepeatable, poorly controlled, and reactive	Nothing is stored in Version Control System (VCS)     Scripts are stored on infrastructure, local workstations, or as notes	No written IaC tests (functional,	Infrastructure is built manually from command line or from a GUI     Existing infrastructure cannot be easily rebuilt     Provisioning new infrastructure is painful and inconsistent	Existing infrastructure is brittle and unreliable     Patching and upgrades are done directly on running infrastructure     Troubleshooting is done directly on running infrastructure	No defined infrastructure metrics: SLAs, KPIs, CSFs     Monitoring and logging done directly on running infrastructure     No automated alerting