Definition	Practices around developing IaC	Build, tests, publish IaC build artifacts	Using IaC to provision infrastructure	Managing running infrastructure	Monitor and measure infrastructure
Area of Practice	Development	Continuous Integration	Provisioning	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 infra 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 tool All defects and bugs are tracked in the ALM Code is declarative	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 Configuration drift is impossible	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	CI Server to pull, build, test, and publish IaC artifacts Automated tests are run for every check-in Test are run in a 'prod-like' environment	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 is checked into VCS Automation doesn't rely on industry-standard tooling	laC 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 * Assumes all practices follow see	Nothing is stored in VCS Scripts are stored on infra, local workstations, or as notes	No Continuous Integration Server No written IaC tests No way to test infrastructure before provisioning	Infrastructure is built manually from command line or from a UI 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 infra Troubleshooting is done directly on running infrastructure	No defined infrastructure metrics: SLAs, KPIs, CSFs Monitoring and logging done directly on running infra No automated alerting

^{*} Assumes all practices follow security requirements and best practices