Infrastructure Automation Test Framework

Best Practices

Integrate Testing into CI/CD Pipelines	Automate testing for every code change
Test for Security and Compliance	Validate infrastructure configuration against security standards Test for compliance with regulatory requirements like HIPPA , PCI-DSS etc
Validate Configuration Consistency	Test for consistent configuration across environments
Continuously Monitor Infrastructure	Use monitoring tools and setup alerts for infrastructure changes and issues.
Flexible Test Code	Modular and reusable code Clear documentation and comments
Use Version Control for Test Code	Track changes to Test code and maintain versioning of test code along with release notes.
Continuously Refine and Improve	Keep the test dependent libraries updated and look for any changes in the infra and continuously add tests around new feature.