

Accelerating Your ATO Process with Fugue

As federal agencies adopt the cloud to accelerate their digital transformation, they can spend an extraordinary amount of time and effort obtaining an Authorization to Operate (ATO). For most agencies, this process can take up to 9-12 months or longer.

Fugue Platform, a cloud infrastructure security and automation solution, can help agencies accelerate their ATO process. Fugue Platform acts as a single source of truth for your infrastructure and can help federal agencies accelerate their ATO process by implementing the following concepts: reusable architecture, security automation, continuous monitoring and automated reporting.



REUSABLE ARCHITECTURE: Build your infrastructure and controls as standard templates of pre-approved architectures, technology stacks, and control implementation descriptions to maximize reusability and minimize the possibility for deviation.

Fugue Platform supports infrastructure-as-code as templates known as “compositions”, which define your infrastructure. Compositions are written in a language called Ludwig, which can be thought of as “YAML with superpowers”. If a composition compiles without errors, its infrastructure will be successfully provisioned. And more importantly, Fugue will prevent the infrastructure from being deployed if errors are detected. This immediate feedback enables users to rapidly iterate on configurations without spending hours in testing or debugging.

Fugue Platform enforces security controls on compositions with “validations”. Validations are policy-as-code files that assess whether a composition is in

ACCELERATE ATO WITH FUGUE



Reusable Architecture



Security Automation



Continuous Monitoring



Automated Reporting

Keys to success for accelerating the ATO process rely on inheritance of controls, standardized architecture, and automating the practices of deployment, reporting, continuous monitoring, and drift remediation.

compliance with internal requirements or external regulations. For example, a validation will verify if cloud storage is configured to store only encrypted files or that port 22 is not opened for inbound network access. Fugue provides out-of-the-box validations to enforce compliance frameworks such as NIST 800-53.



SECURITY AUTOMATION: Build an automated CI/CD pipeline for deploying infrastructure. Instrument the pipeline to measure the effectiveness of controls so infrastructure that violates controls will not be deployed. Deploy other security tools for assisting with the assessment of controls such as code analyzers or vulnerability scanners.

Fugue Platform provides a feature known as Cloud Desk, which is a cloud service catalog integrated with a CI/CD pipeline (see below). The Cloud Desk developer checks Fugue Platform compositions into a version control system such as GitHub. A build server such as Jenkins or CircleCI compiles the compositions and checks them against validation files for policy compliance. If a composition violates policy, Jenkins generates a build error and the developer must correct the violation. Successfully compiled compositions are put into a storage

bucket, where a Cloud Desk user can deploy them into production infrastructure via a self-service provisioning portal.



CONTINUOUS MONITORING: Enforce compliance by automatically correcting for configuration drifts in the infrastructure. Feed all output from security monitoring tools into a common place for automating the reporting on continuous monitoring.

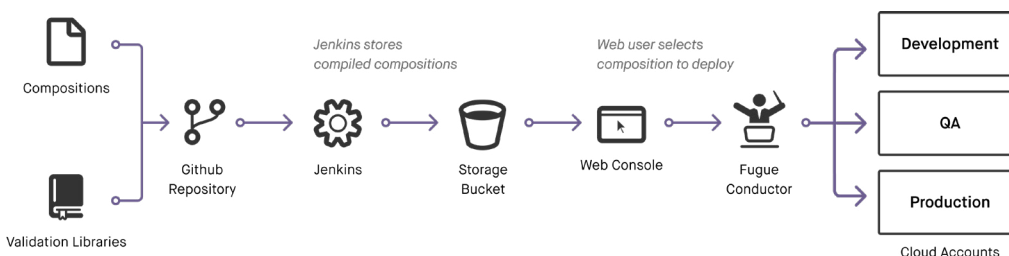
Fugue Platform's continuous monitoring capabilities are ideally suited to these requirements. Fugue Platform scans cloud infrastructure for changes every few minutes. If there is any configuration drift from an established infrastructure baseline, such as adding unauthorized network rules or users, then Fugue Platform will automatically correct the drift and restore the baseline.



AUTOMATED REPORTING: Provide a structured workflow for creating reports with standard template language around controls inheritance and automatic enforcement of controls.

Fugue Platform sends drift and remediation events to a centralized queue to automate reporting on continuous monitoring.

FUGUE PLATFORM WITH CLOUD DESK



Accelerating the ATO Process

Obtaining ATO can be an arduous and time-consuming process which can take up to a year or more. By including concepts like reusable architect, security automation, continuous monitoring and automated reported into the ATO process, federal agencies can make security and compliance more dynamic and integrated at the beginning of their purchase cycle instead of bolting in on at the end. Fugue Platform helps federal agencies to continue to innovate and without sacrificing security and compliance.

About Fugue

Fugue, a leader in cloud infrastructure automation and security, provides solutions to ensure that enterprise and public agencies cloud resources are always provisioned according to a single source of truth—and stay that way throughout the resources' lifetime. Fugue is privately held and headquartered in Maryland. Fugue was named a Cool Vendor in Cloud Computing 2017 by Gartner.

