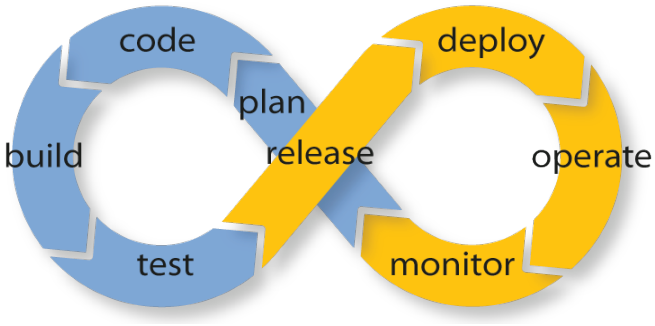
InfoZen DevOps



How can Government agencies find success in this difficult environment while answering the call of the 'Cloud First' mandate and still deliver meaningful results to constituents? One approach is DevOps, which brings together people, process, and tools in a culture that is focused on solving mission or business problems.

InfoZen's approach to DevOps removes the barriers between development and delivery, cutting across organizational silos and bringing together stakeholders with the common goal of delivering value as quickly and efficiently as possible. InfoZen delivers a set of disciplines that resolve the friction that builds between internal teams -- most notably the developers and the infrastructure workforce. InfoZen has adopted and implemented leading-edge paradigms – such as continuous integration, continuous testing and continuous delivery – in addition to proven best practices in the areas of build automation, configuration management, release management and deployment that deliver the following benefits:

Standard Development Practices
- Development teams practicing Test Driven Development
- Implement by developers with Junit or other testing framework

Source Code Management and Continuous Integration
- Providing instant feedback to development teams
- Can be implemented via a Jenkins job that gets triggered on any commit of source code

Infrastructure Code Management
- Managing the code that creates infrastructure and automates installations in the same way source code is managed
- For example: Managing CHEF, Puppet and Ansible automation code in a Git or Subversion

Release Tracking and Bug Management

Developer Self Service
- A means for developers to spin up their own development environments by simply choosing the version of the software they want to deploy and where to deploy to
- Fully automating the installation process as well as automating the provisioning of VMs

Continuous Deployment
- Deployments are automated and scheduled to deploy often
- Software, as well as the deployment process is always in a working state

Benefits to your Mission

- Time-to-value is much shorter because IT cycle time is greatly reduced
- Software features are released more quickly and more often
- Releases are stable and predictable, making them more cost-efficient and less stressful on your team
- Your customers' needs are met sooner and with higher quality
- Collaboration and trust are built between your development and IT operations teams

Benefits to your customers

- Faster access to new features and functionality
- Ability to accept changes in smaller, more manageable portions
- Less disruptive upgrades that take less time, are less costly and require fewer resources
- Higher value and trust in your software
- Increased visibility and input into features for your next release

  Better ability to plan and introduce change into their environments

SELECT CUSTOMER SUCCESS

Large Federal Agency, DevOps Cloud Project

- InfoZen created an environment within a leading Cloud Service Provider to test application automated provisioning
- Demonstrated that automated provisioning and deployment of the infrastructure and application components can be accomplished within the environment using CHEF orchestration toolkit
- Duplicated the components of the legacy data center Functional Test and Performance Test environments in the Cloud using CHEF orchestration CD toolkit, so that interfaces are functional over an internet-based VPN
- Conducted performance testing and achieved the expected results, as defined in the current test plans
- Conducted scalability testing and ensured the architecture can scale quickly based on defined and agreed upon thresholds

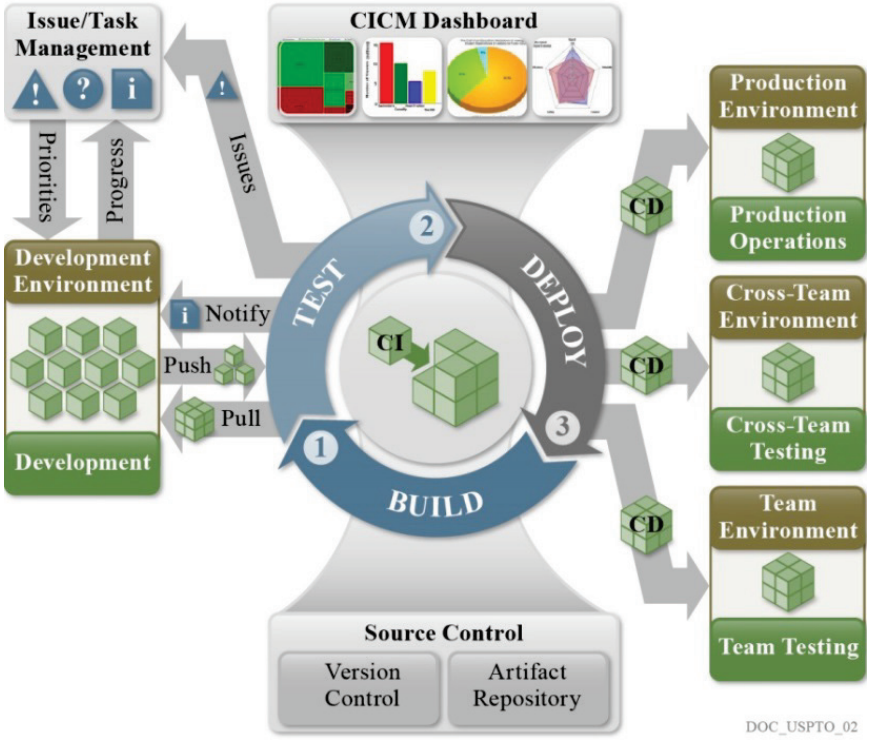
Department of Homeland Security, Component Agency

- Planning, phase-in/transition, and ongoing support for migration of the majority of the agency infrastructure (e.g., 50+ applications, systems, network, mail, messaging, and mobile devices)
- Intermediary between the agency and the private cloud providers in geographically dispersed data centers
- Defined services to be offered in the cloud; physically moved mission applications to the cloud
- Developed security protocols and procedures, billing models, pricing, interconnection agreements, data management policies, privacy policies, and ongoing change management procedures and methods

NASA, Web Enterprise Service Technologies (WEST) Prime

- Five-year BPA for cloud broker/integrator and cloud hosting services
- Leveraging DevOps to effectively manage hundreds of NASA web assets, including www.nasa.gov, in the Amazon Web Services (AWS) cloud
- Provided support for SaaS, PaaS, and IaaS required for www.nasa.gov and the other NASA domains
- Consolidated and integrated web service delivery capability for sandbox, development, test, staging, and production environments

InfoZen DevOps Methodology



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