

DevOps Standard

Introduction

The State of Oklahoma has made a commitment to develop software using a DevOps philosophy.

With DevOps, quality assurance and security teams become more tightly integrated with development and operations throughout the application lifecycle.

Teams that follow DevOps practices automate processes that historically have been manual and slow. They use a technology stack and tooling which helps them operate and evolve applications quickly and reliably.

Purpose

The purpose of this standard is to provide guidance to vendors who are selected to create or modify custom solutions for the state.

Standard

- Code repository.
 - GitHub is the code repository used by the state. Vendors must request access to the state's repository and store all project code there.
 - Azure DevOps Repos was a former acceptable alternative to GitHub. However, owners of any existing repositories in Azure DevOps should create a plan for migrating to GitHub Enterprise.
 - A future mandate will require all DevOps repos to move to GitHub Enterprise.
- Testing and building source code.
 - Azure DevOps or Github Actions are used to build, test and deploy application source code.
- Each project has at a minimum, a develop branch and a production branch.
- The default branch for a repository should be called develop and not master.
- Each project should have a basic continuous integration/continuous deployment workflow that tests the basic build function of the project.

Compliance

This standard shall take effect upon publication and is made pursuant to Title 62 O.S. §§ 34.11.1 and 34.12 and Title 62 O.S. § 35.8. OMES IS may amend and publish the amended standards policies and standards at any time. Compliance is expected with all published policies and standards, and any published amendments thereof. Employees found in violation of this standard may be subject to disciplinary action, up to and including termination.

Rationale

To coordinate and require central approval of state agency information technology purchases and projects to enable the chief information officer to assess the needs and capabilities of state agencies as well as streamline and consolidate systems to ensure that the state delivers essential public services to its citizens in the most efficient manner at the lowest possible cost to taxpayers.

Revision history

This standard is subject to periodic review to ensure relevancy.

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Approved by: Dan Cronin, Chief Information Officer	