Git Executive Overview

The intended audience for this overview is the EM&M Management team. This document sets the stage for all EMM Git related processes, procedures, and documentation.

Objectives

The EM&M Git System is designed and maintained with the following considerations in mind:

1. Version Management in support of the EM&M Deployment Workflow.
2. Encompass and embrace branching to support isolated, distributed development environments and merging to support shared development and automation for builds and deployments.
3. Production hotfix (i.e., Emergency Bug Fix EBF) development must always be initiated upon the exact set of source code which was used to generate the problematic version that is in production needing repair.
4. The process and standards which we set up:
   a. Must be able to give us a consistent and predictable means by which to manage and track development deployments for Build and Deployment automation. No deployments to QA, Integration, Staging, or Production should occur until successful build and deployment in the associated Development environment.
   b. Should minimize the manuals steps and actions that are performed.
   c. Must support ultimate goal of automated build and deployment of applications.
   d. Must support the Development, Operations, CM, QA, and other teams which interact with the system.
5. An effort should be made to avoid biasing the processes at the expense of any of these for mentioned teams.

Directives

The EM&M Git System shall store repos that support release and maintenance of code to development and non-development environments. Update Access to this system shall be managed with ssh keys. Those who have valid Comcast userids have "read" access. Those with valid ssh keys have "modify/update" access with limitations defined in the EM&M Git System Access section of the *Version Management Implementation* document.

The initiator of EM&M git repos in the EM&M Git System shall be the default owner. The repo owner can provide and deny access to others who have ssh keys setup in the system. They can also disable and enable update access for repos they own. This allows the owner to "freeze" the repo for any reason.

The EM&M Git System shall support sharing so developers can collaborate and support each other. This does not preclude developers from sharing their own git repos with other developers outside of the EM&M Git System.

The EM&M CM Team shall Identify and maintain a Version Management Implementation plan based on the open source Git tool.

Related Documentation

- Git Repo System Admin Guide
- Version Management Implementation
- Git Installation Procedure
- EMM Git Users Guide