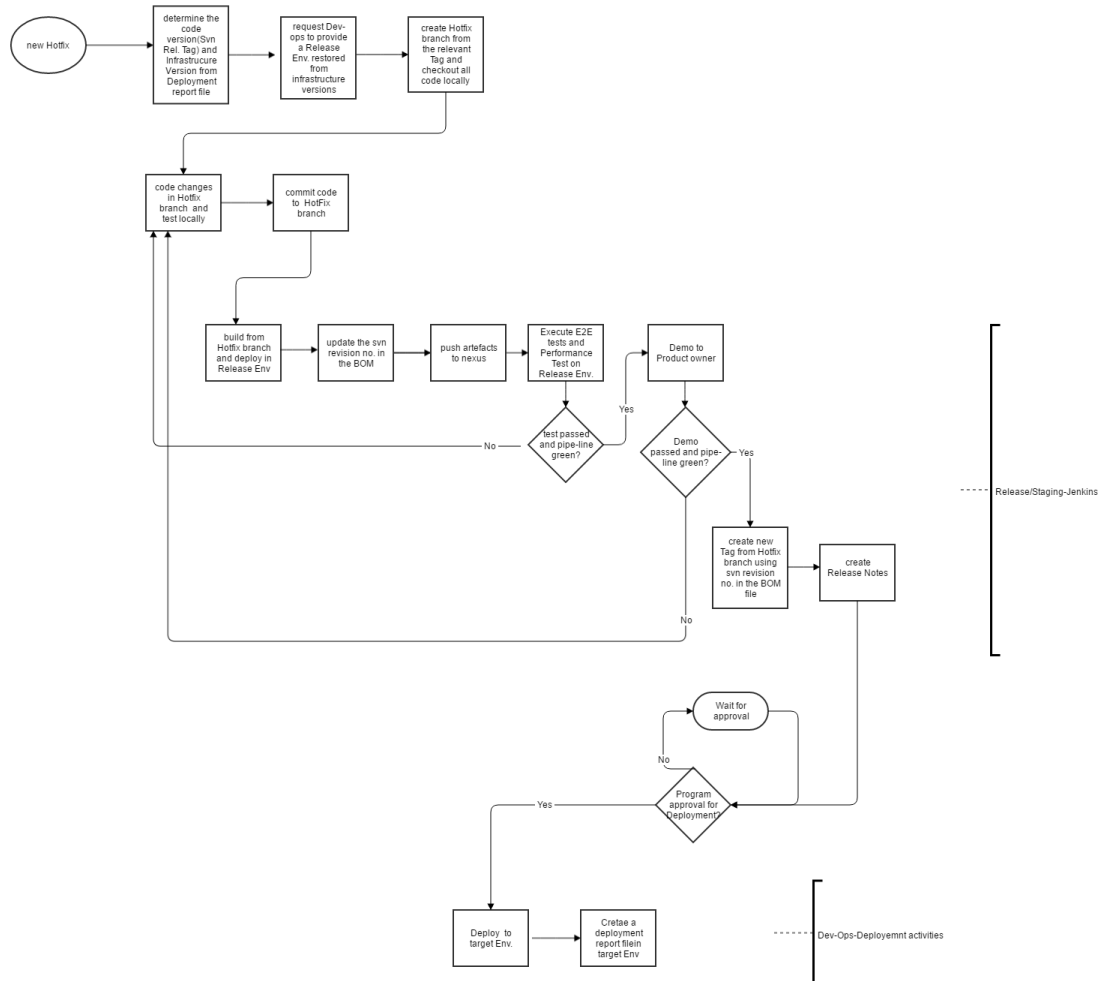# Hotfix release

It is likely that when a bug is reported, the code in release branch and trunk has moved on with new development. So first thing to determine will be what infrastructure and code version is deployed to the Production Environment where the bug is reported. This information can be determined from 'deployment report' on the production environment.

Once we know the Release Tag version , a Hotfix Dev. branch will be created to fix the bug. once fixed a new Release Tag from Hotfix branch will be created for Hotfix release.

```
new Hotfix
  → determine the code version(Svn Rel. Tag) and Infrastrucure Version from Deployment report file
  → request Dev-ops to provide a Release Env. restored from infrastructure versions
  → create Hotfix branch from the relevant Tag and checkout all code locally

code changes in Hotfix branch and test locally
  → commit code to HotFix branch
  → build from Hotfix branch and deploy in Release Env
  → update the svn revision no. in the BOM
  → push artefacts to nexus
  → Execute E2E tests and Performance Test on Release Env.

test passed and pipe-line green?
  No → (back to code changes in Hotfix branch and test locally)
  Yes → Demo to Product owner

Demo passed and pipe-line green?
  No → (back to code changes in Hotfix branch and test locally)
  Yes → create new Tag from Hotfix branch using svn revision no. in the BOM file
       → create Release Notes

[ Release/Staging-Jenkins ]

Wait for approval
Program approval for Deployment?
  No → Wait for approval
  Yes → Deploy to target Env.
       → Cretae a deployment report filein target Env

[ Dev-Ops-Deployemnt activities ]
```

SVN Tagging for Hotfix Release

The Hotfix will be done on a branch taken from original Release tag. Once the code on Hotfix branch is tested and demo complete then a new Release tag will be created using SVN revision no. in the BOM from Hotfix branch.

SVN Structure

trunk/feature-1

merge

branches/feature-1-Relese-1   Main Relese-1 branch

0..*

merge

Orignal Release Tag
where the bug was reported   **tags/feature-1-Release1.0.1**

branched from Tag

Hotfix Development Branch   **branches/feature-1-Release1.0.1-Hotfix-1**

tag from Hotfix branch

tags/feature-1-Release1.0.2

New Release Tag for Hotfix