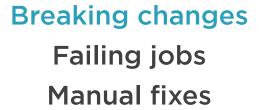
Managing and Upgrading Plugins



Elton Stoneman CONSULTANT & TRAINER

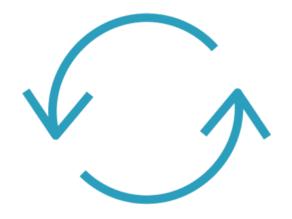
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Failed updates
Minimum versions
Successful jobs



Repeatable Jenkins install
OS & Java
Jenkins & plugin versions

Demo



Plugin updates and broken jobs

- Jenkins with plugins installed
- Update plugin with breaking change
- Existing build jobs fail

Plugin Updates: Breaking Changes



Breaking changes - data and validation logic



Plugin authors can flag incompatible updates



Update installs correctly



Every build fails...

Managing Breaking Changes

Release to staging

Dry-run in a separate environment

Plugin usage plugin

Track down which jobs use the affected plugin

Fix the jobs

Manually or with a script to update XML

Demo



Failed updates and successful jobs

- Jenkins with plugins installed
- Update plugin to incompatible version
- Installation fails

Plugin Updates: Installation Failures



Plugins define minimum Jenkins & Java versions



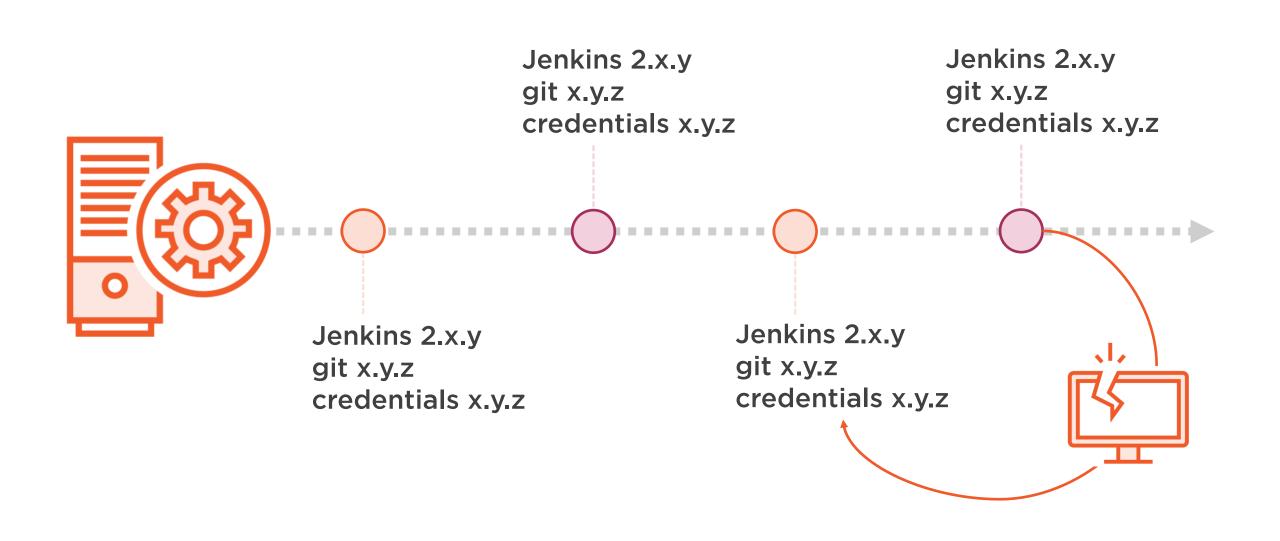
Not validated as part of update process



Old plugin version removed; new install fails



Builds silently ignore the plugin and succeed



Demo



Repeatable Jenkins deployments

- Automating updates
- Backing up Jenkins data
- Upgrading and rolling back







Custom Docker image Full control - from OS Separate Jenkins data Official Jenkins image Maintained by Jenkins Plugin automation Config as code plugin Scripted Jenkins setup Any Jenkins runtime

Summary



Breaking changes

- Updated plugin logic
- Existing builds fail

Failed updates

- Updated plugin requirements
- Existing builds succeed
- Results unexpected

Automated Jenkins deployment

- Repeatable build, known versions
- Scripted rollout and rollback
- Jenkins data backup

We're Done!



So...

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