

Managing Plug-ins, Users and Credentials



Chris B. Behrens

SOFTWARE ARCHITECT

@chrisbbehrens

Working with Plug-ins



Startup scripts enforce configuration



Especially important with containers



Use scripts to enforce plug-in state

Demo



- Modify our sample plug-in script
- List out our plug-ins in a more readable way
- Verify that a particular plug-in is installed
 - By title
 - By version
- Installs the plug-in

A Plug-in Script Pattern



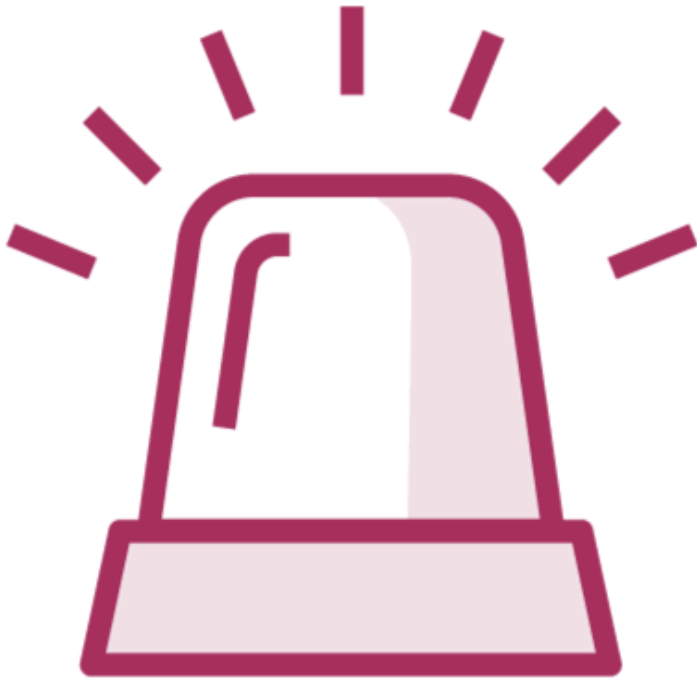
- Jenkins has a lot of default plug-ins
 - Each of those has an impact on your system
- A plug-in whitelist
- Disable those *not* on the whitelist
- Install those not in the installed set

Demo



- Load a simple plug-in whitelist
- Load the set of installed plug-ins
- Match them against the whitelist
- The set of plug-ins not in the whitelist but installed
- Disable those
- The set of plug-ins in the whitelist but not installed
- Install them

And Now, a Warning



- Creating a whitelist is tricky business
- Because plug-ins depend on each other
- Disable a low-level one, and potentially disable a lot of others
- My whitelist is **NOT PERFECT**
- Take care in creating your whitelist
 - Test by creating a complete list and removing one at a time

<https://github.com/samrocketman/jenkins-script-console-scripts/blob/master/safe-restart.groovy>

Working with Credentials and Users



A user has a logon and permissions into Jenkins



Credentials are used by Jenkins to access something *outside*

Demo



- Lists out the users
- Simple script to create a user
- Delete a user
- Talk about our whitelist pattern
- Create a script to enforce it

Working with Credentials



- Elements Jenkins uses to authenticate itself
 - To something else
- Credentials plug-in
 - Hope we didn't disable it
- Before we script
 - How Jenkins works with Credentials in pipelines

Demo



- Create a set of credentials
- To login to GitHub
- Access a protected repository
- How to inject those credentials into a groovy pipeline
- Verify that our pipeline was able to pull from our repo

Creating Credentials in Script



- Two things we know
 - What credentials are used for
 - How they're used in the build
- We need to change the password for our creds
- In script

Demo



- Create a CredentialManager
- Lists all the credentials in the system
- Change the password for a specified credential set

Course Summary



- Whew!
- New concepts folded in gradually
- We could keep going, but you get the picture
- If you've worked with C#, Java, or JavaScript...
 - You know Groovy
- If you're still working with classic builds
 - Move to pipelines as quickly as you can

THANK YOU VERY MUCH FOR
WATCHING!!!