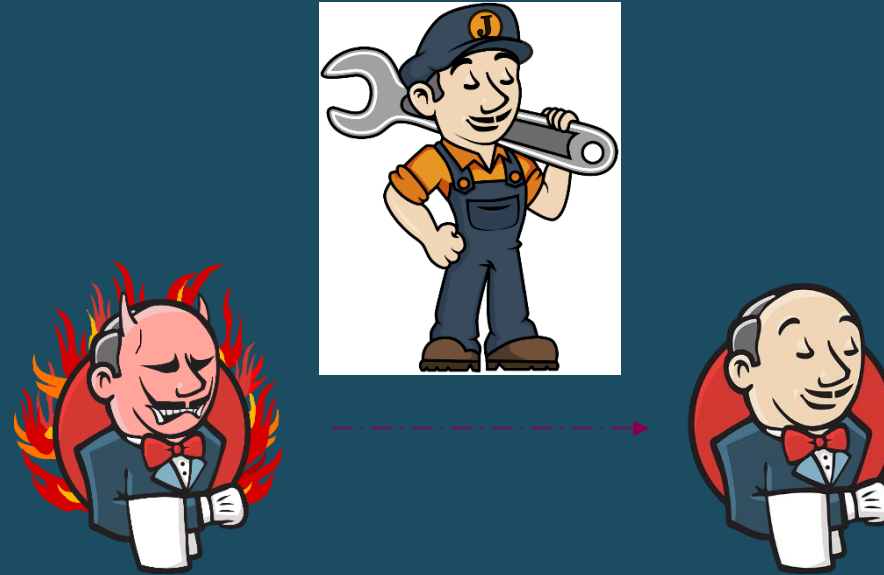




JCasC



JCasC



- Setting up is a complex process
- Jenkins and its plugins require some tuning and configuration

- Reproduce and restore a full environment within minutes
- Resilient to environment failures

- Simple, human-friendly, plain text yaml syntax
- Export existing Jenkins configuration
- Configuration under Version Control
- CasC - System configuration, Jobs, Tools installation & integration, Plugins



JCasC – System Configuration

```
jenkins:

  systemMessage: "Jenkins configured as Code"

  credentials:

  system:

    domainCredentials:

      name: "github.com"

    - credentials:

      - usernamePassword:

          description: "Git Credential"

          id: "Git_Credential"

          password: "${GIT_PASSWORD}"

          scope: GLOBAL

          username: "GIT_USER"
```

Job

```
nodes:

  - permanent:

      labelString: "Linux Docker"

      mode: NORMAL

      name: "Project Slave"

      remoteFS: "/home/jenkins"

      launcher:

        jnlp:

          workDirSettings:

            disabled: true

            failIfWorkDirIsMissing: false

            internalDir: "remoting"

            workDirPath: "/tmp"
```

Build Agents

```
globalLibraries:

  libraries:

    - name: "git-functions-lib"

      retriever:

        modernSCM:

          scm:

            git:

              remote:

                "https://github.com/jenkins-
                infra/pipeline-library.git"
```

Plugins



JCasC – Other Configurations

jobs:

```
- script: >

  folder('testjobs')

- script: >

  pipelineJob('testjobs/default-agent') {
    agent any

    stages {
      stage ('test') {
        steps {
          echo "hello"
        }
      }
    }
  }
}
```

Job

tool:

```
git:

  installations:

    - name: git

      home: /usr/local/bin/git
```

cmakeTool:

```
installations:

  - name: "InSearchPath"

  properties:

    - installSource:

      installers:

        - cmakeInstaller:

            id: "3.14.5"
```

Build Agents

plugins:

```
required:

  git:latest

  matlab:2.14

  blueocean:latest

  pipeline:latest

  docker-plugin:latest
```

Plugins