GLU Script

Introduction

A GLU script is a set of instructions backed by a state machine that the agent knows how to run. In general, and by default, a GLU script represents the set of instructions which defines the lifecycle of what it means to install, configure, start, stop, unconfigure and uninstall an application.

Groovy Class

```
class MyGluScript

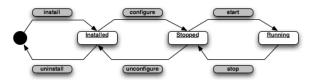
{
    def port
    def pid

    def install = { /* install code */ }
    def configure = { /* configure code */ }
    def start = { /* start code */ }
    def stop = { /* stop code */ }
    def unconfigure = { /* unconfigure code */ }
    def uninstall = { /* uninstall code */ }
}
```

A GLU script is a groovy class which contains a set of closures where the name of each closure matches the name of the actions defined in the state machine. This example shows the default closure names. The script can also store state in attributes (like port and pid in this example). The code of each closure can be any arbitrary groovy/java code but remember that the agent offers some capabilities to help you in writing more concise code.

State machine

Each GLU script is backed by a state machine which is an instance of org.linkedin.groovy.util.state.StateMachine. The default state machine is the following:



This is how the default state machine is defined.

```
def static DEFAULT_TRANSITIONS =
[
  NONE: [[to: 'installed', action: 'install']],
  installed: [[to: 'stopped', action: 'configure'], [to: 'NONE', action: 'uninstall']],
  stopped: [[to: 'running', action: 'start'], [to: 'installed', action: 'unconfigure']],
  running: [[to: 'stopped', action: 'stop']]
]
```

You can define your own state machine by defining a static attribute called stateMachine

This is how the AutoUpgradeScript GLU script defines different states and actions:

[
NONE: [[to: 'running', action: 'start']],
running: [[to: 'NONE', action: 'stop']]
]

Note: If an action is empty you don't even have to define its equivalent action but you still need to call all prior actions to satisfy the state machine.

An example of GLU script

Injected' by the agent class MyGluScript2 def rootDir def install = { log.info "Installing..." def skeleton = shell.fetch(params.skeleton) rootDir = shell.untar(skeleton, mountPoint) log.info "Installation complete" Agent Capabilities Unique key Init parameters