

# Cachet Gate Plugin

The Cachet Gate Plugin allows jobs to be gated based on Cachet resource availability.

Plugin Information
View Cachet Gate <a href="#">on the plugin site</a> for more information.

## Change Log

### Version 1.0.6 (Feb 21, 2019)

- Add missing Operational status to metrics. (#9)

## Set Up

### Global Configuration

Before the plugin may be used, you must configure the Cachet API URL in the Jenkins global configuration:

Cachet Configuration
Cachet API URL <input type="text" value="http://semaphore.company.com/api/v1/"/>

### init.groovy.d Configuration

You can also specify the following snippet as a [Groovy Hook Script](#)

```
import com.redhat.jenkins.plugins.cachet.GlobalCachetConfiguration
import com.redhat.jenkins.plugins.cachet.ResourceUpdater

def cachetUrl = "https://status.example.com/api/v1/"
GlobalCachetConfiguration gcc = GlobalCachetConfiguration.get();
gcc.setCachetUrl(cachetUrl);
gcc.setIgnoreSSL(true);

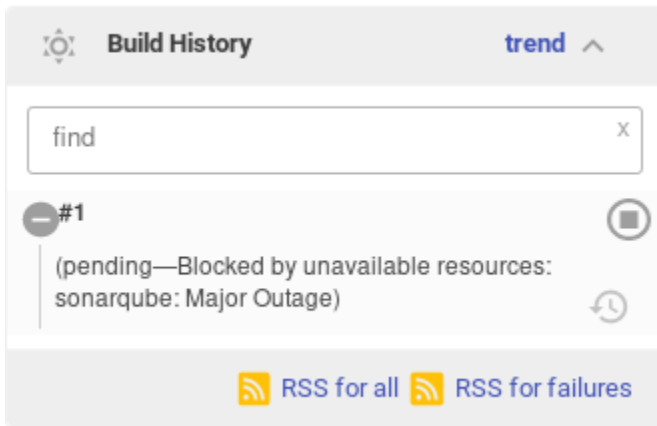
ResourceUpdater.setResources();
```

## Gating Jobs

To gate jobs, in the job configuration check the box to confirm resource availability before building and then select the required resource from the list. Note that **all** selected resources must be available for the job to run.

The screenshot shows the Jenkins job configuration interface for a job named 'cachet-test'. The 'General' tab is selected. The 'Project name' is 'cachet-test'. The 'Description' field is empty. Below the description, there is a checkbox labeled 'Confirm resource availability before building' which is checked. Underneath this checkbox is a dropdown menu for 'Required resources' with the following options: 'polarion', 'rdo-cloud', 'rpmdiff', 'sonarqube', and 'umb'. The 'Discard old builds' checkbox is unchecked.

Below is an example of a build that is blocked or gated:



## Job setup using JJB

From jenkins-job-builder 2.10.2 you can setup your jobs using JJB. Here is an example snippet:

```
properties:
  - cachet-gating:
      required-resources: true
      resources:
        - beaker
        - brew
```

## Job setup using Job DSL

You can also use the job dsl plugin to configure gating for your jobs. Here is an example snippet:

```
properties {
  cachetJobProperty {
    requiredResources(true)
    resources(["service1", "service2"])
  }
}
```

## Gating metrics

You can use the following snippet to gathering metrics once build has started after being gated:

```
def metricsMap = cachetgatingmetrics()
if (metricsMap.size() > 0) {
  echo "Semaphore Required Resources Gating Metrics:"
} else {
  echo "This build was not gated by required resources not being available"
}

metricsMap.each{ k, v ->
  echo "- Resource name: ${k}"
  echo "- Status:      ${v.getGatingStatus()}"
  echo "- Elapsed time:  ${v.getGatedTimeElapsed()} ms"
  echo ""
}
```