

## saltstack 集成

### 1. 安装 saltstack

saltstack 原理详细可以参考 saltstack 官方文档

#### 1.1 安装 salt-master(Jenkins)

```
yum -y install salt-master
service salt-master start
chkconfig salt-master on
```

#### 1.2 安装 salt-minion(应用发布机器)

```
yum -y install salt-minion
service salt-minion start
chkconfig salt-minion on

#编辑/etc/salt/minion 文件填写对应的 master 地址
master: 192.168.0.41

#在 master 节点上认证客户端
salt-key -L
salt-key -a clientName
```

#### 1.3 安装 salt-api(Jenkins)

```
yum -y install salt-api
service salt-api start
chkconfig salt-api on

#添加用于操作 api 的系统用户
useradd saltapi
passwd saltapi

#编辑/etc/salt/master
file_roots:    #允许使用 salt 发布文件
  base:
    - /srv/salt
rest_cherrypy: #以下是 saltapi 配置
  port: 9000
  disable_ssl: True
  debug: True
external_auth:
```

```
pam:
saltapi:
- .*
- '@wheel'
- '@runner'
```

```
service salt-master restart
service salt-api start
```

## 1.4 测试

```
curl http://127.0.0.1:9000/login -d username='saltapi' -d password='123456' -d
eauth='pam'
```

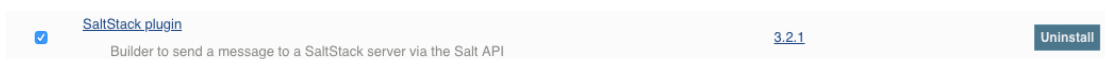
返回 token 则成功

```
[root@VM_7_14_centos ~]# curl http://127.0.0.1:9000/login -d username='saltapi' -d password='123456' -d eauth='pam'
{"return": [{"perms": [".*", "@wheel", "@runner"], "start": 1553145001.4377871, "token": "0188708d0ca821c14a56572d6318490a41406f73", "expire": 1553188201.437788, "user": "saltapi"}]}
[root@VM_7_14_centos ~]#
```

## 2. 集成 Jenkins

### 2.1 测试 salt (saltapi 方式)

安装 saltstack 插件



生成 Jenkinfile 方法 (项目 -> Pipeline Syntax -> 片段生成器)

Jenkins > cxy > cxy-wlck-ui\_TEST > Pipeline Syntax

[Back](#)

- 片段生成器
- Declarative Directive Generator
- Declarative Online Documentation
- 步骤参考
- 全局变量参考
- 在线文档
- Examples Reference
- IntelliJ IDEA GDSDL

### Overview

This **Snippet Generator** will help you learn the Pipeline Script code which can be used to define various steps. Pick a step you are interested in from the list, configure it, click **Generate Pipeline Script**, and you will see a Pipeline Script statement that would call the step with that configuration. You may copy and paste the whole statement into your script, or pick up just the options you care about. (Most parameters are optional and can be omitted in your script, leaving them at default values.)

### Steps

Sample Step | salt: Send a message to Salt API

Server Name:  saltapi地址

Credentials:  Add saltapi用户认证

Auth Type:  Cannot find any credentials with id 认证方式 默认使用pam

Client Interface:  Test Connection

Function:

Arguments:  在客户端执行ls命令

Target:

Target Type:

☐ Wait for completion

Save output to file: ☐

Save Salt return into saltOutput.json file in workspace: ☐

Skip validation of salt return: ☐

Do not check salt return for failures: ☐

Generate Pipeline Script 生成的可以写到Jenkinsfile中的函数方法

```
salt authType: 'auto', clientInterface: local(arguments: 'ls', function: 'cmd.run', target: 'VM_7_14_centos', targetType: 'list'), credentialsId: 'f89abde3-49f0-4b75-917e-c4e49c483f4f',
servername: 'http://127.0.0.1:9000'
```

Jenkinsfile 示例：

```
#!/groovy

//构建参数
String targetHosts = "${env.targetHosts}"

//saltapi 模板
def Salt(salthost,saltfunc,saltargs){
    result = salt(authType: 'pam',
                  clientInterface: local( arguments: saltargs,
                                          function: saltfunc,
                                          target: salthost,
                                          targetType: 'list'),
                  credentialsId: "f89abde3-49f0-4b75-917e-c4e49c483f4f",
                  servername: "http://0.0.0.0:9000")

    println(result)
    PrintMes(result,'blue')
    return result
}

node("master"){
    stage("Deploy"){
        Salt("${targetHosts}","cmd.run","ls")
    }
}
```

```
}  
  
}
```

构建测试

## 2.2 测试 salt (salt 命令方式)

Jenkinsfile:

```
node {  
    stage("Deploy"){  
        sh "salt * test.ping"  
    }  
}
```

构建测试：

Jenkins > cxy > cxy-wlck-ui\_TEST > #11

 返回到项目

 状态


 变更历史

 **Console Output**

 View as plain text

 编辑构建信息

 Delete Build


 参数

 回放

 Pipeline Steps

 Workspaces

 上次构建

 **Console Output**

Started by user [admin](#)  
Replayed [#10](#)  
Running in Durability level: MAX\_SURVIVABILITY  
[Pipeline] Start of Pipeline  
[Pipeline] node  
Running on [Jenkins](#) in /var/lib/jenkins/workspace/cxy/cxy-wlck-ui\_TEST  
[Pipeline] {  
[Pipeline] stage  
[Pipeline] { (Deploy)  
[Pipeline] sh  
+ salt '\*' test.ping  
VM\_7\_14\_centos:  
True  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] }  
[Pipeline] // node  
[Pipeline] End of Pipeline  
Finished: SUCCESS