GitHub Push事件触发Jenkins Pipeline自动创建RTC Delivery

Requirements

1. GitHub admin
2. Jenkins Pipeline
3. **Generic Webhook Trigger**
4. Slack

Usage

每个Github Push事件中，如果最近一次的commit信息中包含有story: [story_number]形式的comment，就会触发Jenkins pipeline job自动创建RTC Delivery Workitem，将通过slack发送创建成功与否的信息，如果创建成功，则会被轮询的Jenkins Job自动分配到对应环境自动部署（仅限于FVT环境下）。

GitHub WebHook 配置

1. 转入正确的Github Repository, 即repo名字与environments_map.yaml中对应(如ODS, DSS)

2. Go to 'Settings' - 'Hooks' - 'Add webhook'

   - Payload URL: **http://jenkins-url:port/generic-webhook-trigger/invoke?token=AUTODEPLOY**
   - Content type: application/json
   - Which events would you like to trigger this webhook? Just the `push` event.

3. Press 'Add webhook'

Webhooks / **Manage webhook**

We'll send a `POST` request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, `x-www-form-urlencoded`, *etc*). More information can be found in our developer documentation.

Payload URL *

```
http://prdpcrwdsdw02.w3-969.ibm.com:8180/generic-webhook-t
```

Content type

```
application/json
```

Secret

Which events would you like to trigger this webhook?

🔘 Just the `push` event.

⚪ Send me **everything**.

⚪ Let me select individual events.

☑ **Active**
We will deliver event details when this hook is triggered.

Jenkins 配置

1. 'New Item' -> 'Pipeline'
2. 进入新建pipeline: Go to 'Configure'
   - Go to 'Build Triggers'->勾选 'Generic Webhook Trigger'
   - Post content parameters:
     - Variable: ref / Expression: $.ref / JSONPath
     - Variable: head_commit / Expression: $.head_commit / JSONPath
     - Variable: commits / Expression: $.commits / JSONPath
     - Variable: full_name / Expression: $.repository.full_name / JSONPath
   - Token: AUTODEPLOY
   - Go to 'Pipeline'->'Pipeline script from SCM'->'Script Path': 'Jenkins_trigger_push.groovy'
   - 可以参考 test_hank 的配置

Build Triggers

☐ Build after other projects are built   ❓

☐ Build periodically   ❓

☑ Generic Webhook Trigger   ❓

Is triggered by HTTP requests to **http://JENKINS_URL/generic-webhook-trigger/invoke**

You can fiddle with JSONPath here. You may also want to checkout the syntax here.

You can fiddle with XPath here. You may also want to checkout the syntax here.

If your job **is not parameterized**, then the resolved variables will just be contributed to the build. If your job **is parameterized**, and you resolve variables that have the same name as those parameters, then the plugin will populate the parameters when triggering job. That means you can, for example, use the parameters in combination with an SCM plugin, like GIT Plugin, to pick a branch.

Post content parameters

                                                       [X]

Variable   `ref`

Name of variable

Expression   `$.ref`

🔘 JSONPath

⚪ XPath

Expression to evaluate in POST content.

Value filter   [   ]

Optional. Anything in the evaluated value, matching this regular expression, will be removed. Having [^0-9] would only allow numbers.

Default value   [   ]

Optional. This value will be used if expression does not match anything.

                                                       [X]

Variable   `head_commit`

Name of variable

Expression   `$.head_commit`

🔘 JSONPath

⚪ XPath

Expression to evaluate in POST content.

Value filter   [   ]

Optional. Anything in the evaluated value, matching this regular expression, will be removed. Having [^0-9] would only allow numbers.

Default value   [   ]

Optional. This value will be used if expression does not match anything.

                                                       [X]

Variable   `commits`

Name of variable

Expression   `$.commits`

🔘 JSONPath

⚪ XPath

Expression to evaluate in POST content.

Value filter   [   ]

Optional. Anything in the evaluated value, matching this regular expression, will be removed. Having [^0-9] would only allow numbers.

Default value   [   ]

Optional. This value will be used if expression does not match anything.

	X

Variable	full_name

Name of variable

Expression	$.repository.full_name

◉ JSONPath

◯ XPath

Expression to evaluate in POST content.

Value filter	

Optional. Anything in the evaluated value, matching this regular expression, will be removed. Having [^0-9] would only allow numbers.

Default value	

Optional. This value will be used if expression does not match anything.

Add

If you want value of **param1** from post content { "param1": "value1" } to be contributed, you need to add **$.param1** here.

Header parameters	**Add**

If you want value of header **param1** to be contributed, you need to add "param1" here.

Request parameters	**Add**

If you want value of query parameter **param1** to be contributed, you need to add "param1" here.

Token	AUTODEPLOY

Optional token. If it is specified then this job will only be triggered if that token is supplied when invoking **http://JENKINS_URL/generic-webhook-trigger/invoke**. It can be supplid as a:

- Query parameter **/invoke?token=TOKEN_HERE**
- A token header **token: TOKEN_HERE**
- A Authorization: Bearer header **Authorization: Bearer TOKEN_HERE**

Pipeline

Definition	Pipeline script from SCM ⬍

SCM	Git ⬍

Repositories	
Repository URL	https://github.ibm.com/dswim/Jenkins_Pipeline.git
Credentials	dswimdp/****** (git token) ⬍
	🐍 Add

Advanced...

Add Repository

Branches to build	X
Branch Specifier (blank for 'any')	*/dev_hank_autodeploy

Add Branch

Repository browser	(Auto) ⬍

Additional Behaviours	Add ▾

Script Path	Jenkins_trigger_push.groovy

Lightweight checkout	☐

Pipeline Syntax