CI记事(五) jenkins任务配置和说明

一、jenkins任务综述

jenkins任务工作流:

Build_roller_iso_liberty -> Build_and_copy_os_rpms_es_liberty -> Copy_RPMS_to_ISO_server -> Make_ISO

Build_roller_iso_liberty: 执行该任务,完成后续所有任务,包括构建RPM,拷贝RPM到iso服务器,打包成ISO。

Build_and_copy_os_rpms_es_liberty:构建rpm包,然后拷贝到iso服务器。

Copy RPMS to ISO server: 拷贝rpm包到ISO服务器。

Make ISO: 打包成ISO。 详细任务说明如下文。

二、任务构建和说明

1、如何构建一个项目的RPM任务?

本次以nova为例

1.1、新建仟务

一个全新的任务,选择构建一个自由风格的软件项目,输入名称即可。



点击OK后

1.2、配置这个项目

a、勾选Restrict Where this project can be run 输入master。

描述	Managed by Jenkins Job Builder	$\overline{}$
	 [Plain text] <u>预览</u>	
Prepare an environment for the run		(
□ 丢弃旧的构建		(
□ 参数化构建过程		(
关闭构建 (重新开启构建前不允许进行新的构建)		(
□ 在必要的时候并发构建		
Restrict where this project can be run		(
Label Expression	master	
	Label is serviced by 1 node	
高级项目选项		
	高级	Ł
松建环境中 如下图勾选 填写/tmn/openstack	-jenkins.properties。此时的openstack-jenkins.properties是一个包含	対抗日々
	项目不单独运行,所以这个项目第一次运行时,是由其他任务传入进来,	
呵。反之需要自己创建该文件。 ^{外境}		
Inject environment variables to the build process		
Properties File Path	/tmp/openstack-jenkins.properties	
	Amproperistack jerikins.properites	
Properties Content		
		,

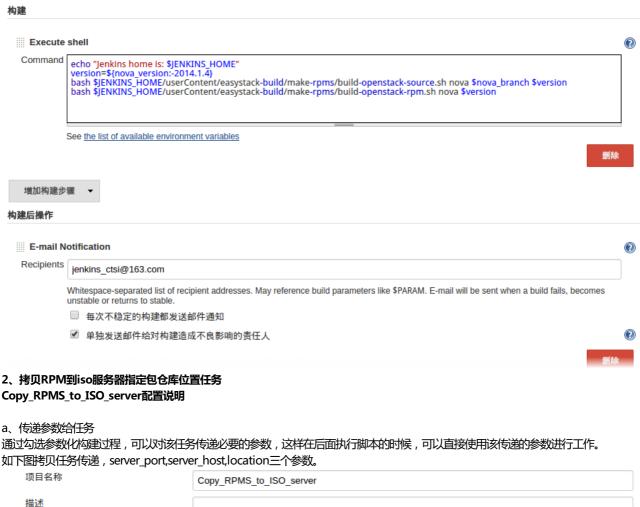
?

Inject passwords to the build as environment variables

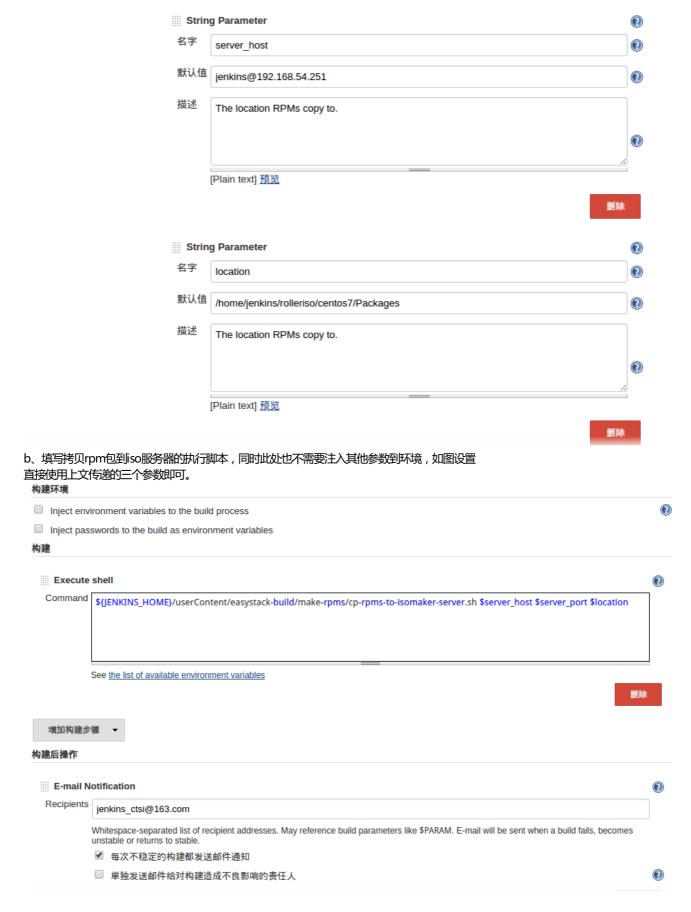
Script Content

Evaluated Groovy script

c、填写构建RPM包的运行脚本和邮件通知,一般不需要改变。







- 3、Build_and_copy_os_rpms_es_liberty任务说明
- a、勾选Prepare an environment for the run选项,填写各个项目的分支和版本参数到/tmp/openstack-jenkins.properties文件。

项目名称		Build_and_copy_os_rpms_es_liberty	
描述			
	[Plain t	ext] 预览	
✓ Prepare an environment for the run			
Keep Jenkins Environment Variables	•		
Keep Jenkins Build Variables	•		
Override Build Parameters			
Script File Path			
Script Content			
	echo		
		r_branch=master	
	pythor keysto	ine_branch=\\$master_branch n_keystoneclient_branch=\\$master_branch ine_version=8.0.1 n_keystoneclient_version=1.7.2	
	-	branch=\\$master_branch	
	pythor	n_novaclient_branch=\\$master_branch C_branch=\\$master_branch	
	nova_	version=12.0.0 n_novaclient_version=2.30.1	
		C version=0.5	
	glance_store	e_version=0.9.1	
	neutron_bra	nch=\\$master_branch	
	python_neut neutron_ver	ronclient_branch=\\$master_branch sion=7.0.3	
	python_neut	ronclient_version=3.1.0	
		as_branch=\\$master_branch as_version=7.0.3	
	cinder_bran cinder_versi	ch=\\$master_branch on=7.0.0	
		oranch=\\$master_branch meterclient_branch=\\$master_branch	
	ceilometer_v	rersion=5.0.1 meterclient_version=1.5.1	
	python_come		
	django_oper	nstack_auth_branch=\\$master_branch nstack_auth_version=1.3.1	
	horizon_bra	nch=\\$master_branch	
	nonzon_vers	sion=2015.1.1	
		=\\$master_branch	
	heat_version	=5.0.0	
		ent_branch=\\$master_branch	
	estack_hage	ent_version=2.0	
	" > /tmp/ope	nstack-jenkins.properties	
b、注入环境变量 构建环境			
✓ Inject environment variables to the build process			•
Properties File Path	/tmp/oper	stack-jenkins.properties	•
Properties Content			
. repetited content			
			•

c、清理日的rpm,添加后续的构建任务,并设置为阻塞模式,即顺序执行。 第一个构建任务执行结束后执行第二个构建任务,以此类推。

Execute shell	
command echo "Jenkins home is: \$JENKINS_HOME" rm -rf \$JENKINS_HOME/userContent/openstack/RPMS/noarc	h/*
See the list of available environment variables	删除
Trigger/call builds on other projects	WO POX
Build Triggers	
Projects to build	horizon_build_rpm,neutron_lbaas_build_rpm,glance_stc
Block until the triggered projects finish their builds	•
Fail this build step if the triggered build is worse or equa	I to FAILURE
Mark this build as failure if the triggered build is worse o	r equal to FAILURE
Mark this build as unstable if the triggered build is worse	
	UNSTABLE
Add Parameters ▼	
Add ParameterFactories ▼	
Trigger/call builds on other projects	
duild Triggers Projects to build	Copy_RPMS_to_ISO_server
Block until the triggered projects finish their builds	6
Fail this build step if the triggered build is worse or equal	I to FAILURE
Mark this build as failure if the triggered build is worse or	r equal to
	PAILORE
Mark this build as unstable if the triggered build is worse	UNSTABLE
Predefined parameters	
Parameters server_port=22 server_host=jenkins@192.168.54.251 location=/home/jenkins/rolleriso/centos7.	/Packages
	删除
Add Parameters ▼	
Add ParameterFactories ▼	
	Add trigger

如上图是,先执行完毕rpm包构建,然后在执行Copy RPM to ISO Server,顺序执行,如果有一个任务失败,该工作流失败。

4、RPM构建和打包问题集锦

问题1:错误:novarpm构建依赖失败:

python-sphinx 被 openstack-nova-1:12.0.0-3.es.noarch 需要 python-boto 被 openstack-nova-1:12.0.0-3.es.noarch 需要

解决力法: yum install python-sphinx python-boto

问题 2: 出现nothing to commit, working directory clean 错误: /var/tmp/rpm-tmp.mrwdf6 (%prep) 退出状态不好

RPM 构建错误:

/var/tmp/rpm-tmp.mrwdf6 (%prep) 退出状态不好

解决办法:

修改%__git} commit %(-q) -a 为 %(_git} commit %(-q) -a --allow-empty ,

即加个 --allow-empty

问题 3:错误: var/lib/jenkins/userContent/openstack/下出现没有那个项目的目录

解决办法:主要修改项目名字有estack-hagent,noVNC,django-openstack-auth,修改方式如下:

cd /var/lib/jenkins/userContent/openstack/

mv estack-hagent easystack-hagent

mv noVNC novnc

mv django-openstack-auth django_openstack_auth

问题4:错误:构建依赖失败:

python-django-openstack-auth >= 1.0.11 被 python-django-horizon-2015.1.1-1.easystack.el7.centos.noarch 需要

解决办法: yum install python-django-openstack-auth -y

问题 5:在当前目录下已经存在旧的Roller.iso的情况下出现如下错误:

File /home/jenkins/rolleriso/Roller.iso is larger than 4GiB-1.

-allow-limited-size was not specified. There is no way do represent this file size. Aborting.

Build step 'Execute shell' marked build as failure

解决办法:

mv Roller.iso ../iso-product/ 将其移动到iso-product目录即可。

问题6: copy rpm to iso server, master to isoserver 时, 出现问题: Host key verification failed.

解决办法:在jenkins master机器上执行如下命令:

su -s /bin/bash - jenkins

cd .ssh

vim known_hosts

移除那个isoserver的信息,没有则忽略

重新ssh jenkins@isoserver

选择yes

不会出现上述错误,而会出现permission denied。

这时候上传公钥

ssh-copy-id -i id_rsa.pub jenkins@isoserver

成功解决。

综上时刻记住:在jenkins 用户执行下,必须用jenkins自己的环境变量,密钥,known_hosts等内容。