Task 1. Configuring CI builds on Jenkins

Review

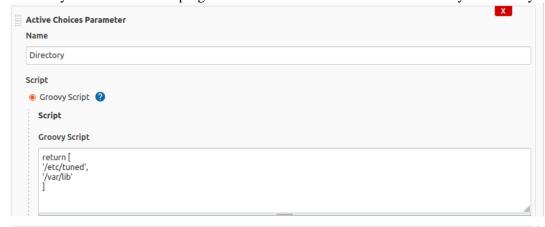
Previously installed Jenkins server will be used for this task. Configuring single CI job using test project

Task

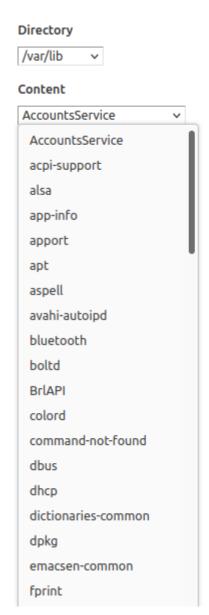
- 1. Create simple adhoc and automated Jenkins jobs
- 2. Automated build creates artefacts and stores them in directory \$JENKINS_HOME/artifacts
- 3. Adhoc build selects artefact from directory \$JENKINS_HOME/artifacts



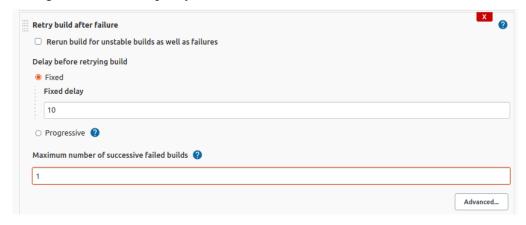
4. Use Dynamic Choice plugin to select file name from any directory







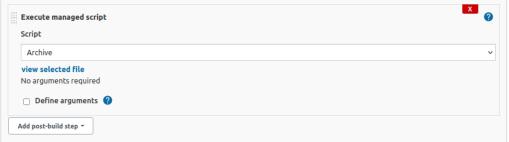
5. Configure discard build policy



6. For automated build - configure SCM checkout code



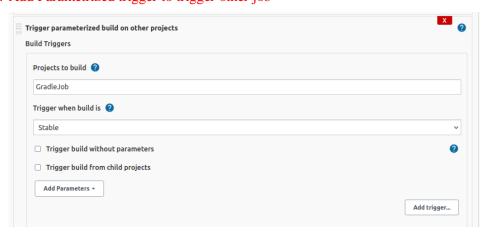
- 7. For automated build configure primary project build (gradle or maven) step
- 8. Add build steps to create .tar.gz artifact. Use Managed-script plugin. Artefact name should have build number



9. Archive artifacts inside automated build



10. Add Parametrized trigger to trigger other job



11. Retrieve artifact in downstream project

Downstream Projects

⊘GradleJob

12. Notify about build status (email)

Maven-Project - Build # 27 - Successful! Входящие ×



address not configured yet <forjenkins1@gmail.com>

кому: мне 🕶

Maven-Project - Build # 27 - Successful:

Check console output at http://192.168.1.10/job/Maven-Project/27/ to view the results.

13. Add JUnit reports to build display page



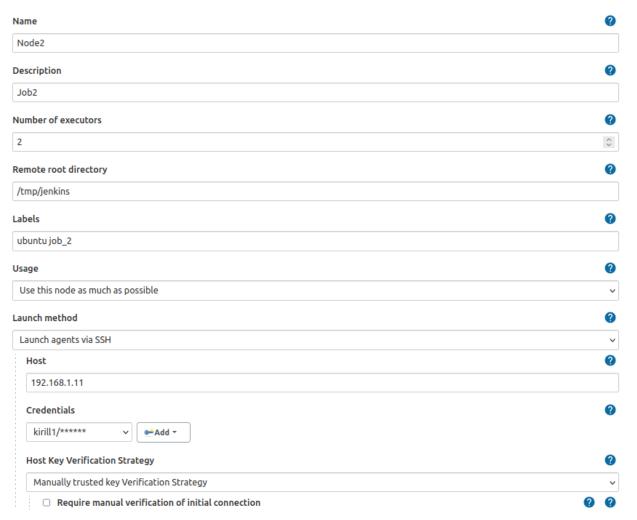
Task 2. Setting up Jenkins Cluster

Review

Setup distributed builds using Jenkins master-slave configuration.

Task

- 1. Prepare 3 servers for distributed builds (install necessary software and configure SSH communication). It is possible to setup all slaves on the same machine.
- 2. Install Jenkins on master server.
- 3. Create 2 slave nodes and configure it (labels, startup policy, location).



- 4. Configure 3 jobs so that Job1 runs on master, Job2 runs on slave 1 (node1) and Job3 runs on slave 2 (node2) only.
 - 5. Execute 3 jobs at the same time.

Build History on Node1

This history is not guaranteed to include all subtasks executed on the node, e.g. Jenkins Pipeline subtasks will not be displayed.



