

The mission:

- Allow a user to ssh the jenkins master server without password as user "bob"
- Allow the user bob to read-only the "readme_bob.txt"
- Execute "whats_going_on" script and save its output as job artifact

Create GitHub repository with the following files (you can add more if needed):

- text file: readme_bob.txt
- script: whats_going_on
- ansible playbook: setup.yml
- jenkins file: Jenkinsfile
- Readme: Readme.md

Files explanation:

Text file:

- create a text file named "readme_bob.txt" with the text "For your eyes only"

Script:

Create bash or python script named "whats_going_on",
the script will check the following and save the data into a json file format:

- OS distribution and version
- date
- Free memory
- Free space on "/"
- Jenkins build number
- workspace path

Ansible playbook:

Create ansible playbook which performs the following tasks:

- Create user "bob" (password: abcd1234)
- Add ssh-public-key into bob's authorized_keys.
- Allow user to read-only the readme_bob.txt file

Jenkinsfile:

Create a Jenkins pipeline job which performs the following:

Job input:

- file upload - the user should be able to upload ssh-public-key file

Job flow:

- stage 1: Preparations
 - Verify the user input file – make sure the file is a valid ssh-public-key. (display informative error in case the input file is in correct)
 - clone your GitHub repository.
- Stage 2: Execute the ansible playbook.
- Stage 3: execute " whats_going_on " script
- Save the output of the script " whats_going_on " as job artifact.

Environment details:

- Jenkins is running on ubuntu server.
 - root_username: user
 - root_password: password
- ansible 2.9 is installed on the Jenkins server
- SSH is installed on the server.
- python 3 available on the server

Notes:

- if additional plugins or packages are required in order to execute the job or scripts they should be documented in the readme file.