Task 3 - Jenkins Task

Prerequisites:

Setup Jenkins:
- Chrome browser (version 86) should be installed
- [Maven Integration plugin](#) should be installed
- [Allure Jenkins Plugin](#) should be installed
- Configure global environment variable **CI = true**. As, automation code from task-1 checks for CI environment var and adds headless options.

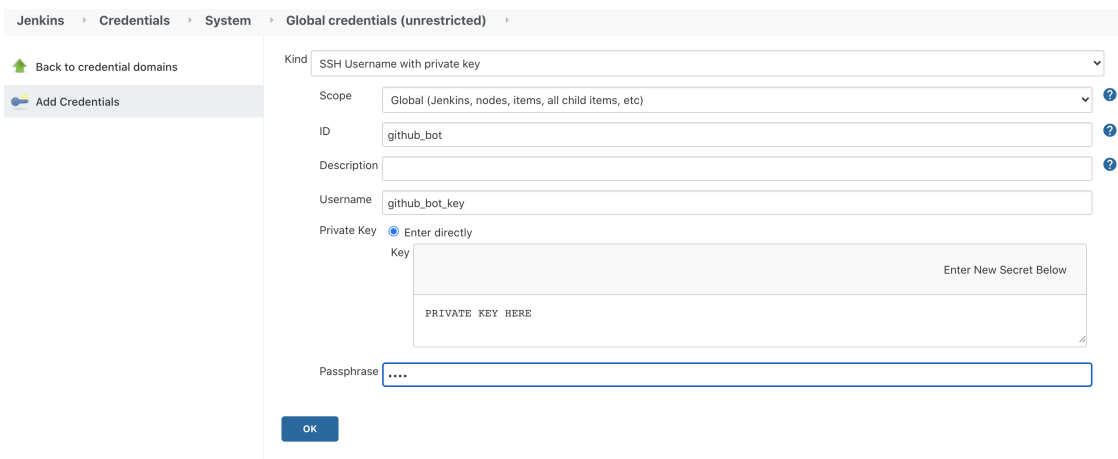 To configure, go to: Manage Jenkins > Configure System > Global properties

  Global properties

  ☐ Disable deferred wipeout on this node   ❓

  ☑ Environment variables

  List of variables

  Name | CI   ❓

  Value | true

  Delete

  Add

- Configure SSH credentials for access to the git repository.
  To add credentials go to: Jenkins > Credentials > System > Global credentials

  Jenkins › Credentials › System › **Global credentials (unrestricted)**

  🔼 Back to credential domains

  🔑 Add Credentials

  Kind | SSH Username with private key

  Scope | Global (Jenkins, nodes, items, all child items, etc)   ❓

  ID | github_bot   ❓

  Description | ❓

  Username | github_bot_key

  Private Key | ⦿ Enter directly

  Key

  Enter New Secret Below

  PRIVATE KEY HERE

  Passphrase | ....

  OK

Pipeline Configuration

1. Add **New Item** in jenkins dashboard.
2. Enter item name and select Maven Project then click OK

3. Then under the **Source Code Management** tab, select git and enter the repository details and choose the added credentials (follow the prerequisite process) with access to the repository. Also, change the branch specifier to ***/main**.

4. To run the pipeline automatically at night choose **Build periodically** under **Build Triggers** tab and enter schedule time as **@midnight**

Build Triggers

☐ Build whenever a SNAPSHOT dependency is built ❓

☐ Trigger builds remotely (e.g., from scripts) ❓

☐ Build after other projects are built ❓

☑ Build periodically ❓

Schedule ❓

```
@midnight
```

Would last have run at Saturday, October 24, 2020 1:03:23 AM UTC; would next run at Sunday, October 25, 2020 1:03:23 AM UTC.

☐ GitHub hook trigger for GITScm polling ❓

☐ Poll SCM ❓

5. Configure **Build** step to correct path for **pom.xml** and set goal to "**test**"

Build

Root POM | task-1/pom.xml ❓

Goals and options | test ❓

Advanced…

6. To publish the test report using Allure plugin. Add **Allure report** in post build actions then set the results path to generated reports path, in case of task-1 it is **task-1/target/surefire-reports**

Post-build Actions

Allure Report [X]

Disabled ☐

Results:

Path | task-1/target/surefire-reports [X]

Add

Paths to Allure results directories relative from workspace.
E.g. **target/allure-results**.

Properties | Add

Advanced…

Add post-build action ▾

7. After the build ran at the scheduled time. We can see the details of the build along with access to allure reports. Below is the screenshot from running task-1 in jenkins.

8. Allure reports results of task-1.