


The purpose of this lab is to introduce the participant to advanced Policy Check features related to creating your own rules using regex or python.

Open the workshop VM by going to the URL on your browser that you were assigned at the beginning of the workshop by one of the presenters. For example, <http://wshoptest.liquibase.org>



The image shows the Apache Guacamole login interface. At the top is the Apache Guacamole logo, which consists of a black circle with a green and yellow swirl inside. Below the logo, the text "APACHE GUACAMOLE" is displayed in bold. Underneath, there are two input fields: "Username" and "Password". At the bottom, there is a dark grey button labeled "Login".

Username - workshopuser

Password - Liquibase1

You should see a Windows desktop that looks like this after logging in:



### Applications needed for lab:

Visual Studio code

Command prompt session

Chrome browser

### References :

→ Policy Checks Command Documentation Page

<https://docs.liquibase.com/commands/policy-checks/subcommands/home.html>

→ List of Policy Checks

<https://docs.liquibase.com/commands/quality-checks/checks/home.html>

→ Custom Policy Checks w/Python Documentation Page

<https://docs.liquibase.com/liquibase-pro/policy-checks/custom-policy-checks/home.html>

1. Go to an open command session and make sure that you are in the vigilant-umbrella directory or open one by executing the shortcut on the desktop 'workshop.bat'.
2. Create a new policy check by running this command in the CMD session window.

```
liquibase checks copy --check-name=CustomCheckTemplate
```

SHORTNAME → CustomChkNoColumnDefaultValues

SEVERITY → 3

SCRIPT\_DESCRIPTION → This custom policy check looks for a CREATE new column or ALTER TABLE or COLUMN that includes setting a default value for the column.

SCRIPT\_SCOPE → [CHANGELOG] default (Just hit enter to accept default)

SCRIPT\_MESSAGE → Your changeset is adding or changing a column and setting a default value for it. This is a violation of data governance policies.

SCRIPT\_TYPE → [Python] default (Just hit enter to accept default)

SCRIPT\_PATH → Scripts/column\_default\_value.py

SCRIPT\_ARGS → (Just hit enter)

REQUIRES\_SNAPSHOT → [false] default (Just hit enter to accept default)

3. Execute `liquibase checks run` in your CMD session and find the output that refers to the new policy check just created. You should see this in your output:
4. You will also see this in the latest "Checks-run-report-<DD-MON-YYYY-HHMMSS>.html report

5. To resolve this check being triggered you can edit Release-1.1.0.sql changelog for this changeset by removing `'DEFAULT='NA'`  
At the end of line 25 and saving your changes with Ctrl + S
6. Re-run `liquibase checks run`. Confirm the QC message for the NoDeleteWithoutWhere has been resolved. Review the latest the latest report to see that this check is no longer triggered.
7. Feel free to create some other policy checks to exercise this process in any extra time you have you are welcome to.

END OF LAB