Azure DevOps for Testing

- Thingworx health check as DevOps pipeline
    - DEV/TEST: https://dev.azure.com/knorrbremse/idib-dev-thingworx/_build?definitionScope=%5CTWX-Health-Check
    - PROD: https://dev.azure.com/knorrbremse/idib-prd-thingworx/_build?definitionScope=%5CTWX-Health-Check
- Automation Testing Runs as DevOps pipeline
    - TEST: Workflow runs · KB-smartProduction/UITesting (github.com)

Health check pipelines (pipeline directory "TWX-Health-Check", pipeline prefix "HC-")

This pipeline has to filled with content.

Currently simple tests are done:

- Check location identifier
- Check staging identifier
- Check server time zone

GitHub Workflow Runs for Automation Testing

Automation Test scripts run are orchestrated by three GitHub workflow in CVS, RVS and CAPS environments.

- CVS Automation Tests
- RVS Automation Tests
- CAPS Automation Tests

Servers

Below servers are used to run automation tests and the timing of the runs scheduled.

Note: *As of now, these pipelines are NOT shutting down the Azure server VMs on which the tests are being run.*

Dept	Server	Schedule
CVS	KECTEST	Scheduled run at 7 AM CET
RVS	MILTEST, PNATEST, MLKTEST	Scheduled run at 7 AM CET
CAPS	KBATEST	Scheduled run at 7 AM CET

The manual test cases covered are documented under TWX-19.

The test results and auto generated report can be found from published aritfacts under the run of a pipeline.

Results are further bifurcated into two folders.

- **TestImages**: contain screenshots/images of the validated selections and clicks.
- **Test reports**: contain a report in html format mentioning no of test cases passed and failed.

The automation scripts are written in **Python 3.11.4** and are available under **UITesting repository on Github**.

Development

Objectives - To ensure quality of software development by validating test cases using automation test scripts.

Working procedures and code snippets can be found Automation Testing Scripts - Industrial IoT - Confluence (knorr-bremse.com).