



## Objective

Support Picarro DevOps projects during Asia daytime, Standardization of DevOps tools across Picarro and windows docker virtualization for various Windows flavors of Zero Reference Module used for Isotope instruments of gas analyzers.

## Scope

- Support DevOps projects under various teams of Analytics, Apps, Host and NextGen

## Challenges

- Multiple technologies involved with various versions being used by various teams
- No DevOps culture for the teams that used DevOps tools
- Windows docker containerization of zero reference module for the gas analyzers
- Migration of jobs from Team City to Jenkins

## Technology

- Jenkins (Master Slave architecture)
- Shell Scripting
- Windows Docker
- Python3
- Docker Compose

## Benefits

- Efficient building of docker containers thereby helping the gas analyzer to measure GHGs, trace gases and stable isotopes found in the air.
- Standardization of DevOps tools and OS for the various gas analyzers
- Design and scripting of various shell script that can be used in general for all the users
- Promoting DevOps as culture to developers

## Key features

- DevOps culture implementation across teams
- Implementation of Windows docker containers for gas analyzers
- Migration of jobs from legacy systems on Teamcity to Jenkins jobs