Press Release

PIACERE: A DevSecOps framework for secure IaC Development and Operation

Bilbao, Spain, October 2023

PIACERE (Programming trustworthy Infrastructure As Code in a sEcuRE framework) enables the automation of several deployment, configuration and management tasks that otherwise would have to be performed manually by an operator. In a nutshell, PIACERE solution consists of an integrated DevSecOps framework to develop, verify, release, configure, provision, and monitor Infrastructure as Code.

The **main objective** of PIACERE is to develop a solution that covers the development, deployment, and operation of Infrastructure as Code (IaC) of applications deployed on the cloud continuum. The **PIACERE framework approach** aims at supporting the DevSecOps activities and shortening the learning curve for new DevSecOps teams. To achieve this, PIACERE proposes DevSecOps Modelling Language (DOML), a standard, easy-to-use language for infrastructure provisioning, application deployment, and configuration management.

At design time, the PIACERE approach can avoid misconfigurations, insecure coding and configuration patterns through an automated solution for checking the integrity and applicability of IaC code that is to be deployed on an infrastructure. It addresses the lack of tailored solution for checking the integrity and applicability of IaC code to be deployed on an infrastructure provided by the verification tools, leading to a very limited trust in the automated deployment systems. It helps solving the customization of security options and overcome the limitations in automation while optimizing the occurrences of IaC errors and, thus, increasing the level of trust and reducing the entry level for new users.

Furthermore, PIACERE helps to develop and maintain IaC for heterogeneous infrastructures ~~and~~ at different phases (configure, provision, deploy, orchestrate) with multilingualism support in one tool, allowing re-deployment of infrastructural code for a new configuration for of the same application in an automatic way without manual intervention. The output of the project, that is finishing in at the end of November 2023 allows for automatic, configurable, and therefore faster and easier execution, orchestration and deployment of IaC code on heterogeneous (cloud) environments, with the unique feature of supporting partial re-deployments and reconfigurations.

The PIACERE team is presenting the latest results at two of the major European events dedicated to DevOps happening in mid-October by the **Eclipse Foundation** and **RedHat**. In October 16 we will have a presentation in the Community Day Cloud DevTools and Open VSX session "*PIACERE: Making secure IaC code development easier through ECLIPSE EMF*" and, in the following day, we continue at the **ESAAM** event with the presentation *"PIACERE Integrated Development Environment"*. We will also be present in both days at the Projects Both, come visit us there. And in October 17 we are bringing PIACERE with a booth to the Red Hat Summit Connect Madrid, a closed industrial event with expected 700+ participants with a decision-making profile. These

are great opportunities to exposure PIACERE's key results with a great impact generation potential, a Grand Finale just before the official end of the project.

Project Website

https://www.piacere-project.eu/

Twitter

https://twitter.com/PIACEREproject

LinkedIn

https://www.linkedin.com/company/piacere-project-h2020/

Zenodo

https://zenodo.org/communities/101000162/?page=1&size=20

Youtube

https://www.youtube.com/channel/UCLzVC4ZR9DJ3BKeTMc4Mk9Q

Breaking news and info available at https://www.piacere-project.eu/

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731533

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