PIACERE

Programing trustworthy Infrastructure as Code in a sEcuRE framework

ID: 101000162

piacere-project.eu

Towards a holistic approach to the secure infrastructure automation

Designed to increase the productivity of DevOps teams in IaC development and operation through the provisioning of an integrated DevSecOps framework.

DEV Improve the ability of (non-)expert DevSecOps teams to model provisioning, deployment and configuration of applications and underlying execution environments.

SEC Regain trust in IaC through the DOML verification and the automation of IaC code quality checking for errors and vulnerable dependencies, and thus improving IaC integrity and applicability.

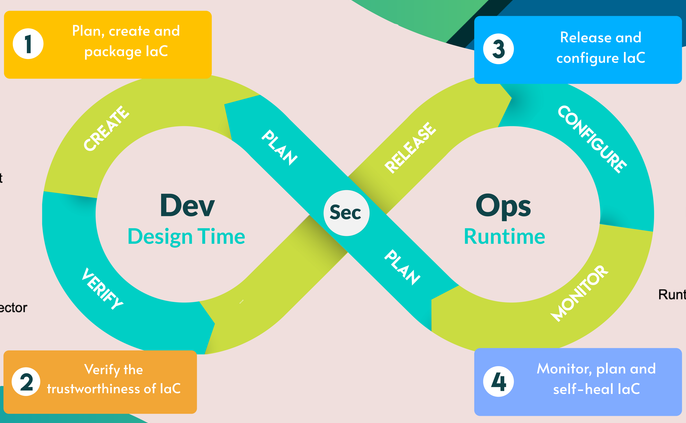
OPS Avoid vendor lock-in and time consuming manual processes in infrastructure management, while increasing resilience and supporting self-healing.

Seamless IDE for Secure DevOps

Guided workflow of tools from IaC design to app lifecycle management with monitoring, self healing and self learning

DESIGN TIME

- DevSecOps Modelling Language DOML
- Integrated Development Environment
- Infrastructural Code Generator
- DOML Model Checker
- IaC Code Security Inspector
- Component Security Inspector



RUNTIME

- Canary Sandbox Environment
- IaC Optimized Platform
- IaC Execution Manager
- Self-learning and self-healing mechanisms
- Runtime Security Monitoring

"Configure complex private clouds and enable an agile way of delivering information systems (IS) for the public administration"

Stjepan Pervan, Slovenian Ministry of Public Adminsitration
Public Adminsitration hosting information systems on a centralized infrastructure

"Be able to deploy the same software application on different infrastructures with limited additional effort"

Ismael Torres Boigues, PRODEVELOP
Critical Maritime infrastructure for fulfilling the management needs of port authorities

"Automate the configuration of complex networks and support the deployment of a container-based distributed system"

Cosimo Zotti, ERICSSON
Public Safety on IoT in 5G of both human and IoT devices

PIACERE SUCCESS STORIES

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PROJECT COORDINATOR
Juncal Alonso, TECNALIA
juncal.alonso@tecnalia.com

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