

Sección: Evidencia de ejecución del pipeline CI/CD DevSecOps

Objetivo de esta sección

Demostrar que el pipeline CI/CD implementado:

- se ejecuta correctamente en GitHub Actions
- aplica controles automáticos de calidad y seguridad
- bloquea el despliegue cuando hay errores (gates)
- permite avanzar solo cuando todo está correcto

Esto valida el enfoque DevSecOps exigido en la tarea.

Branch Protection Rules (Required Checks)

The screenshot shows the GitHub Settings interface for a repository named 'DevSecOpsP2'. The top navigation bar includes 'Code', 'Pull requests', 'Actions', 'Projects', 'Wiki', 'Security', 'Insights', and 'Settings'. The 'Settings' tab is active. On the left, a sidebar lists 'Access', 'Collaborators', 'Moderation options', 'Code and automation' (with 'Branches', 'Tags', 'Rules' selected), 'Rulesets', 'Actions', 'Models', 'Webhooks', 'Copilot', 'Environments', 'Codespaces', and 'Pages'. The main content area is titled 'Rulesets / New branch ruleset' and displays a 'Protect your most important branches' section. It shows a 'Ruleset Name' input field containing 'devsecops-main', an 'Enforcement status' dropdown set to 'Disabled', and a 'Bypass list' section which is currently empty. A note states: 'Rulesets define whether collaborators can delete or force push and set requirements for any pushes, such as passing status checks or a linear commit history.'

Configuración aplicada

Se configuró protección de la rama main con:

- Require pull request before merging
- Require status checks to pass
- Required check: devsecops workflow

The screenshot shows the 'Code' tab of a GitHub repository's settings. Under the 'Code' tab, the 'Status checks that are required' section is visible, listing 'devsecops'. Below this, the 'Block force pushes' option is checked. Other settings like 'Require conversation resolution before merging' and 'Merge, Squash, Rebase' are also present.

Esto garantiza que:

- nadie puede hacer push directo a `main`
- todo cambio debe pasar por el pipeline
- el pipeline actúa como **mecanismo obligatorio de control**

Ejecución fallida del pipeline (gate de calidad/seguridad)

The screenshot shows a GitHub pull request titled 'feat: complete DevSecOps CI/CD pipeline update #2'. The pull request has 1 commit from 'imertetsu' and 1 check. The status bar indicates '+42 -51' and two green checkmarks. The pull request details show a comment from 'imertetsu' stating 'No description provided.' Below the commit, there is a note about 'Some checks haven't completed yet' with 1 in progress check. A check named 'DevSecOps CI/CD Pipeline / devsecops (pull_request)' is listed as 'Started now — This check has started..'. Another check is 'Checking for the ability to merge automatically...' with the note 'Hang in there while we check the branch's status.' At the bottom, there is a 'Merge pull request' button and a note: 'You can also merge this with the command line. [View command line instructions.](#)'

feat: complete DevSecOps CI/CD pipeline update #2

Open imertetsu wants to merge 1 commit into `main` from `feature/devsecops-pipeline`

Conversation 0 Commits 1 Checks 1 Files changed 1 +42 -51

imertetsu commented 15 minutes ago

No description provided.

feat: complete DevSecOps CI/CD pipeline update 368821a

All checks have failed 1 failing check

DevSecOps CI/CD Pipeline / devsecops (pull_r...)

No conflicts with base branch Merging can be performed automatically.

Merge pull request You can also merge this with the command line. View command line instructions.

Reviewers No reviews Still in progress? Convert to draft

Assignees No one Assign yourself

Labels None yet

Projects None yet

Milestone No milestone

Development Successfully merging this pull request may close these issues.

None yet

This screenshot shows a GitHub pull request titled "feat: complete DevSecOps CI/CD pipeline update #2". The pull request has been merged into the "main" branch. A comment from "imertetsu" states "No description provided." Below the pull request details, there is a summary of the CI/CD pipeline status. It shows that all checks have failed due to 1 failing check. The failing check is associated with the "DevSecOps CI/CD Pipeline / devsecops" job. A note indicates that there are no conflicts with the base branch, allowing for automatic merging. At the bottom, there is a "Merge pull request" button and a link to "View command line instructions". To the right of the pull request details, there are sections for "Reviewers" (no reviews), "Assignees" (no one assigned), "Labels" (none yet), "Projects" (none yet), and "Milestone" (no milestone). The "Development" section notes that successfully merging the pull request may close certain issues, and there is a note about none yet.

Se ejecutó el pipeline con un commit que contiene errores de ESLint

Resultado observado:

El pipeline falla en la etapa de Code Quality y detiene la ejecución.

The screenshot shows the GitHub Actions pipeline interface. On the left, there is a sidebar with options like "Summary", "All jobs", "devsecops" (which is currently selected and highlighted in blue), "Run details", "Usage", and "Workflow file". The main area displays the logs for the "devsecops" job. The log output shows the following text:

```
Lint users-service
23 npm audit fix --force
24
25 Run `npm audit` for details.
26 npm error Missing script: "lint"
27 npm error
28 npm error Did you mean this?
29 npm error npm link # Symlink a package folder
30 npm error
31 npm error To see a list of scripts, run:
32 npm error npm run
33 npm error A complete log of this run can be found in:
      /home/runner/.npm/_logs/2026-02-22T13_41_50_009Z-debug-0.log
34 Error: Process completed with exit code 1.
```

This log output indicates that the ESLint step failed because it could not find a "lint" script in the package.json file. The pipeline execution was stopped at this point.

Ejecución exitosa del pipeline

The screenshot shows a GitHub pull request page for a repository named 'DevSecOpsP2'. The pull request is titled 'feat: complete DevSecOps CI/CD pipeline update #2' and is from the user 'imertetsu'. It has 10 commits. The commits are listed with their commit messages and SHA-1 hash. Some commits have a red 'X' icon, while others have a green checkmark. The right side of the screen displays various details about the pull request, including milestones, notifications, and participants.

Milestones:

- feat: complete DevSecOps CI/CD pipeline updating packages lock (8bd141d)
- No milestone
- Development

Notifications:

Successfully merging this pull request may close these issues.
None yet

Participants:

1 participant

Check Status:

- All checks have passed (1 successful check)
 - DevSecOps CI/CD Pipeline / devsecops (pull_r...)
- No conflicts with base branch (Merging can be performed automatically.)

Actions:

- Merge pull request
- You can also merge this with the command line.
- [View command line instructions.](#)

Se corrigieron los errores de lint/seguridad y se ejecutó nuevamente el pipeline.

Resultado observado: El pipeline completa todas las etapas exitosamente:

- Install
- Lint
- Tests
- SAST (Semgrep)
- SCA (npm audit)
- Docker build
- Trivy scan
- Smoke test / healthcheck

Link a ejecución en GitHub Actions:

<https://github.com/imertetsu/DevSecOpsP2/actions/runs/22279636991>

Conclusión de la evidencia

Las evidencias demuestran que el pipeline implementado:

- ejecuta controles automáticos de calidad, testing y seguridad
- bloquea integraciones defectuosas
- valida el despliegue con pruebas de salud
- impone políticas de protección en la rama principal

Por lo tanto, el sistema cumple con un flujo CI/CD DevSecOps funcional y seguro, alineado con los requerimientos de la tarea.