
Enhancing DevSecOps maturity

with Metrics

Answered

CodeSCAPE is something we need to subscribe to it? or it come with it?

We'll soon share a link via which you can request pilot access to CodeSCAPE. Eventually, CodeSCAPE will be available to all GitLab users by default.

You mentioned ChatOps earlier. Can we ease up a bit on SGTeams to support this? I don't think going around SGTeams and using another third-party tool is the way to go.

Unfortunately, we are not able to integrate with SGTeams because SGTeams operates on the government network, while our development environment, including GitLab, is on the intranet. We are working with relevant departments to explore potential integrations with the Next Generation GSIB.

Currently, in GDS, we use Slack for ChatOps. We are considering bringing Slack as an offering to all government developers. There has been progress on this front, and we will make further announcements as developments occur. For now, GDS teams are already using Slack.

Are there any guidance for adoption of AI-assisted programming such as Copilot for projects deploying to GCC?

CoPilot is accessible for open code projects, whether deployed to GCC or elsewhere. We're developing a playbook to aid agencies to classify their code accurately. We highly encourage embracing such tools for improving productivity. Keep an eye out for upcoming licenses for alternative tools for CoPilot.

If an agile sprint is 2 weeks, the deployment frequency is also 2 weeks. How does the deployment frequency, DORA metric fit into the agile / scrum methodology?

Even though an agile sprint is typically 2 weeks, deployments don't need to align strictly with the sprint cycle. Deployments can occur more frequently based on feature readiness and pipeline capability. Features that are completed and tested can be deployed immediately, rather than waiting for the sprint review. This can help in getting feedback faster and iterating more quickly.

In a monorepo setup, how can we specify production environment to capture DORA metrics, since multiple applications are getting deployed from same repo?

Unfortunately, this is not possible. You need to design or structure your repo in a such a manner that allows you to capture the metrics from your production environment.

Are there any minimum requirements (e.g. quality gates) for projects in SHIP-HATS, e.g. having 0 critical issues? If so, what are these requirements? What about legacy projects with high tech debt?

The observability dashboard in CodeSCAPE provides insights of issues and explaining their implications. It does not enforce specific quality gates or benchmarks. It is up to the agency to assess and address these findings.

Would you consider inviting Datadog to give us a similar session too?

We are currently using Elastic Cloud as part of the SG Tech Stack for logging and monitoring. We do have upcoming webinars to understand more about how you can use Elastic Cloud for logging and monitoring your applications. Sign up for them and benefit from these learning events.

Is it possible to track all four DORA metrics in GitLab, or is any additional add-on required?

Yes, it's possible to track all four DORA metrics in GitLab. **Deployment frequency** and **Lead time for changes** are straightforward to track. For metrics on **Quality** such as **Mean time to recovery (MTTR)**, you'll need to use GitLab issues. We are exploring further integrations to enhance incident tracking in GitLab, as current capabilities are somewhat limited. Therefore, we are initially focusing on **Deployment frequency** and **Lead time for changes**, which are more immediately impactful.

Unanswered

Does CodeSCAPE work for IaC that uses GitLab for deployment? If we use GitLab to deploy our infrastructure with IaC, can the security checks by CodeSCAPE able to detect?

Will Shiphats support for Azure Platform?

What is the exact start time and end time of MMTR? does it end when the failure is fixed and redeployed OR when it is rolled back to prior working version?

For the adoption playbook (for AI-assisted programming tool such as Copilot), any indication on when it will be released?

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How can we access codescape and if there is any configuration required to see project metrics

Do you capture metrics from SonarQube, FOD, Nexus IQ, etc scans?

What exactly is SHIPHATS

Which tools we are using for feature flags?

How does GitLab figure out the branches that affect a deployment to production environment

Can I get the list of the metrics at one place?

If the vendor has their own dev repository, is it possible for them to link and deploy the codes into SHIP-HATS?