

# Agile meets Security - Weekly recording of activities<sup>(0)</sup>

Team name:

GitGuardians

Name team member A:

Karnavat, Aadit

Name team member B:

Farag, Beshoy

Name team member C:

Guardiola, Antonio Huesa

Name team member D:

Name team member E:

Link to the backlogs:

<https://agilesecgitguardians.atlassian.net/jira/core/projects/AGILESEC>

Link to the documentation:

<https://github.com/BeshoyNFarag/AgileDocuments.git>

Link to the Gitlab project:

<https://lv-gitlab.intern.th-ab.de/agilesec2025/team14/>

## Sprint 1, Week 1 - Wednesday, 23.4.2025 to Tuesday, 29.4.2025

During this week

team members have contributed 100% of the experience

During this week

team members have contributed >100% of the experience

During this week

team members have contributed <100% of the experience

#	Description of the activity
1	Research how to implement CI/CD on GitLab
2	Set up GitLab CI/CD Runner
3	Install GitLab Runner (target: Ubuntu VM)

4	Research appropriate tech stack for CI/CD + security tools
5	Virtual Machine configuration
6	Install Docker Engine on VM
7	. Create Dockerfiles for containerization
8	Search GitLab Server Access / Authentication
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### Sprint 1, Week 2 - Wednesday, 30.4.2025 to Tuesday, 6.5.2025

During this week

During this week

During this week

team members have contributed 100% of the expe

team members have contributed >100% of the exp

team members have contributed <100% of the exp

#	Description of the activity
1	Research for Acceptance Criteria
2	Research for Defination of done
3	checking the commands and tools required for the CI/CD pipeline of the todolist app
4	research on ubuntu VM
5	Configure properly the gitlab-runner in the VM
6	Replace base Images with custom Images for future security tools implementation
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### Sprint 2, Week 1 - Wednesday, 7.5.2025 to Tuesday, 13.5.2025

During this week

During this week

During this week

3 team members have contributed 100% of the expe

team members have contributed >100% of the exp

0 team members have contributed <100% of the exp

#	Description of the activity
1	Backlog refinement
2	Acceptance Criteria
3	DoD
4	Story: As a Security Champion, I want to fix 3 selected vulnerabilities in the Juice Shop and document the fixes according to secure coding guidelines.

5	Story: As a Security Champion, I want to research and test if these vulnerabilities can be automatically detected using SAST tools like Semgrep.
6	Story: As a Security Champion, I want to contribute to the Secure Coding Checklist so developers can avoid these vulnerabilities in future.
7	Story: As a DevOps engineer, I want to learn about the chosen container scanning tool for further implementation in our CI/CD pipelines
8	Story: As a DevOps engineer, I want to research which container scanner tool fits better our use case
9	Story: As a DevOps engineer, I want to implement the container scanning tool to our CI/CD pipelines
10	Story: As a DevOps, I want to choose the most appropriate SAST tool based on the projects needs
11	Story: As a DevOps engineer, I want to learn about the chosen SAST tool for further implementation in our CI/CD pipelines

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## Sprint 2, Week 2 - Wednesday, 14.5.2025 to Tuesday, 20.5.2025

During this week  
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During this week

3 team members have contributed 100% of the exp  
team members have contributed >100% of the exp  
0 team members have contributed <100% of the exp

#	Description of the activity
1	Research and learn the chosen scanning tool
2	implement the scanning tool
3	research and learn the fuzzing tool
4	implement the fuzzing tool
5	Implement the SAST tool and get report
6	Documentation
7	Weekly Scrum + Project extra planning
8	Research dependency scanning and learn how to use Dependency check and generate reports
9	Run dependency scan on Todo List app and analyze results
10	Format and prepare the data for dashboard integration

### Sprint 3, Week 1 - Wednesday, 21.5.2025 to Tuesday, 27.5.2025

During this week  
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During this week

team members have contributed 100% of the expe  
team members have contributed >100% of the exp  
team members have contributed <100% of the exp

#	Description of the activity
1	completed fuzzing stage in todolist pipeline
2	modified Dockerfile to fit the todolist Project actual requirements
3	modified todolist Project to add the fuzzing function
4	researched publishing the container and package for the todolist
5	Researched OWASP Dependency-Check and evaluated how it fits our use case
6	Documented the entire process and created a Word report for submission
7	research, decide and learn the DAST tool for our to do app
8	Implement the DAST tool for the to do app
9	research, decide and learn the SAST tool for our juice shop
10	implement the SAST tool for juice shop
11	implement dependency check for our juice shop
12	Research, decide and learn the DAST for our juice shop
13	Implement the DAST tool for the JUICE SHOP
14	Team sprint planning and sprint release
15	sprint review and feedback

### Sprint 3, Week 2 - Wednesday, 28.5.2025 to Tuesday, 3.6.2025

During this week  
During this week  
During this week

team members have contributed 100% of the expe  
team members have contributed >100% of the exp  
team members have contributed <100% of the exp

#	Description of the activity
1	completed fuzzing in todolist and juice shop pipeline
2	completed container publishing in both pipelines
3	documented fully process of fuzzing, container scanning, and container publishing
4	added SAST sonerqube and dast-zap to CI/CD pipeline in todoapp
5	added gitleaks, added semgrep to CI/CD pipeline in juiceshop
6	checked container scanning in todolist pipeline
7	modified container scanning in juiceshop pipeline
8	added the deployment stage to both juiceshop and todoapp made sure its running and deployed on the vm
9	modified the dockerfiles to add the correct version of the dependencies needed for both projects to run
10	completed package publishing in todolist pipeline
11	Implemented and tested Trivy container scanning script on the OWASP Juice Shop Docker image. Uploaded and configured custom scanning scripts (`dependency-check.sh` and `trivy-scan.sh`) in the GitLab repository.
12	Refined the sprint 3 backlog and added acceptance criteria
13	Prepared and organized project directories (`security-scanners/`) to support CI/CD integration.
14	Researched and attempted integration of OWASP Dependency-Check for scanning Juice Shop dependencies.
15	Generated a full implementation guide and documented the scanning process for future use.

## Sprint 4, Week 1 - Wednesday, 4.6.2025 to Tuesday, 10.6.2025

During this week  
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During this week

team members have contributed 100% of the experience  
team members have contributed >100% of the experience  
team members have contributed <100% of the experience

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### Sprint 4, Week 2 - Wednesday, 11.6.2025 to Tuesday, 17.6.2025

During this week

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	team members have contributed 100% of the expe
	team members have contributed >100% of the exp
	team members have contributed <100% of the exp

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### Sprint 5, Week 1 - Wednesday, 18.6.2025 to Tuesday, 24.6.2025

During this week

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	team members have contributed 100% of the expe
	team members have contributed >100% of the exp
	team members have contributed <100% of the exp

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**Sprint 5, Week 2 - Wednesday, 25.6.2025 to Tuesday, 1.7.2025**

During this week

During this week

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team members have contributed 100% of the expe

team members have contributed >100% of the exp

team members have contributed <100% of the exp

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What were the reasons for falling below 100%:

respective user story- or task-ID	Duration of the activity <sup>(2)</sup>
As a DevOps engineer, I	1.0
As a DevOps engineer, I want to configure a GitLab Runner for our projects, so that pipelines can automatically execute build and deploy jobs.	1.5
As a system administrator, I want to install and register GitLab Runner on our Ubuntu VM, so that jobs can be run in a controlled, self-hosted environment.	0.5

As a solution architect, I want to evaluate and choose the right tools (CI/CD, scanners, container engine), so that our pipeline is compatible, scalable, and secure.	0.5
As a system admin, I want to configure a VM with required packages and networking, so that it can host Docker containers and GitLab Runner securely.	1.0
As a DevOps engineer, I want to install Docker on our VM, so that I can use containers to deploy apps and run security scans in isolated environments.	0.5
As a developer, I want to write Dockerfiles for the Todo App and Juice Shop, so that they can be built and deployed in consistent container environments.	0.5
As a DevOps engineer, I want to verify and set up access to the GitLab server, so that our runner can securely connect and pull repositories to execute CI/CD jobs.	1.0
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respective user story- or task-ID	Duration of the activity <sup>(2)</sup>
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What were the reasons for falling below 100%:

respective user story- or task-ID	Duration of the activity <sup>(2)</sup>
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What were the reasons for falling below 100%:

respective user story- or task-ID	Duration of the activity <sup>(2)</sup>
AG-53	6.0
Ag-53	5.0
AG-56	8.0
AG-56	4.0
AG-42	5.5
	4.0
	2.5
AG-62	5.0
AG-62	5.0
AG-62	3.0

yet to be decided	6.0
Sum	54.0

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What were the reasons for falling below 100%:

respective user story- or task-ID	Duration of the activity <sup>(2)</sup>
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	2.0
	4.0
	0.5
	1.0
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	3.0
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	2.0
	1.0
	1.0
Sum	29.5

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What were the reasons for falling below 100%:

respective user story- or task-ID	Duration of the activity <sup>(2)</sup>
	6.0
	1.0
	2.0
	6.0
	6.0
	0.5
	4.0
	4.0
	1.0
	5.0
	1.0
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Sum	40.5

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What were the reasons for falling below 100%:

respective user story- or task-ID	Duration of the activity <sup>(2)</sup>
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Sum	0.0

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What were the reasons for falling below 100%:

respective user story- or task-ID	Duration of the activity <sup>(2)</sup>
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Sum	0.0

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What were the reasons for falling below 100%:





updated weekly. The current version must be submitted by the Scrum Master in Moodle on Tuesday eve

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