Agile meets Security - Weekly recording of activities (0)

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://ahuesag.atlassian.net/jira/software/projects/GI
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 During this week During this week

#	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)

	Research appropriate tech stack for CI/CD +
4	security tools
5	Virtual Machine configuration
	In stall Declary Francisco and MA
6	Install Docker Engine on VM
7	. Create Dockerfiles for containerization
	Socrab Citl ob Sonyor Access / Authoritication
8	Search GitLab Server Access / Authentication
9	

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
	checking the commands and tools required for
3	the CI/CD pipeline of the todolist app
4	research on ubuntu VM
5	Configure properly the gitlab-runner in the VM
	Replace base Images with custom Images for
6	future security tools implementation
7	
8	
9	

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
	Story: As a Security Champion, I want to fix 3 selected vulnerabilities in the Juice Shop and document the fixes according to secure coding
4	guidelines.

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

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

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	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
	Research dependency scanning and learn how to
8	use Dependency check and generate reports
	Run dependency scan on Todo List app and
9	analyze results
	Format and prepare the data for dashboard
10	integration

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

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
	completed fuzzing stage in todolist pipeline
,	1
	modified Dockerfile to fit the todolist Project actual
	requirements
2	
	modified todolist Project to add the fuzzing
	function
3	3
	researched publishing the container and package
4	for the todolist
	Researched OWASP Dependency-Check and
į	evaluated how it fits our use case
	Documented the entire process and created a
6	Word report for submission
	research, decide and learn the DAST tool for our
	to do app
8	Implement the DAST tool for the to do app
	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
	Research, decide and learn the DAST for our
	2 juice shop
	Implement the DAST tool for the JUICE SHOP
	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

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

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

During this week During this week During this week

#	Description of the activity

	Cleaned the VM for storage optimization without
1	harming the pipeline or security analysis
2	Documented all the rest of the processes
	added acceptance criteria for the rest of the
3	springs
	added credentials in the yml for dockerhub for
4	both pipelines
	Installed and configured OWASP Dependency-
	Check locally on VM - 2 hrs
5	
	Researched and tested multiple ways to run SCA
	(package scanning):Tried owasp/dependency-
	check Docker image
6	Identified volume mount and permission issues
	Switched to more stable Maven plugin and
	Documented scanning steps and generated a
7	weekly report
	Documented scanning steps and generated a
8	weekly report
	Worked on running and verifying the scan on the
9	todoapp- 1/2 hr
	Started reviewing Agile/Scrum background to
10	strengthen integration knowledge
	Add AC for the previous springs tasks
	Complete previous documentation of the creation
	of the custom images - 1h
11	
	Research if the output format of the sec tools can
12	changed into json
	Research a way to obtain gitlab artifacts from an
	external application for the vulnerability
13	dashboard -
	Document the the json formatting and the
	artifacts acquisition-
15	

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

During this week During this week During this week

#	Description of the activity
1	Set up the VD project
2	Implement basic interface
3	Implement fetching data from API function
4	Implement getter and setter of the config file

E	Implement unit tooto
5	Implement unit tests
	- Implement mofication of config. in the
6	dashboard interface - 4.0h
7	Document the process
	Cleaned up the team VM and resolved space
8	issues blocking dependency scans.
	Debugged and resolved CI/CD pipeline failures
	related to Docker authentication and image
9	pushes.(1 hr)
	Fixed pipeline stages for both apps to ensure full
	end-to-end execution (build $ ightarrow$ test $ ightarrow$ package $ ightarrow$
10	security → deploy
	-Set up and verified artifact creation (HTML/JSON
11	reports) for dependency checkers.(1hr)

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

During this week During this week During this week

#		Description of the activity	
		Modify the container scanning pipeline stage to	
	1	allow artifacts download via API - 6.0 h	
		Modify the fuzzing pipeline stage to allow artifacts	
	2	download via API - 1.0 h	
	3	create Fuzzing Page in VD - 6.0 h	
	4	create Container scanning in VD - 10.0 h	
	5	Finish the project agile documentation	
	6	finish first 2 parts in technical documentation	
		change the sast and gitleaks in the pipeline to be	
	7	able to pull the artifacts from gitlab api	
	8	add the sast to the vulnerability dashboard	
	9	add the dast to the vulnerability dashboard	

During this week During this week During this week

#	Description of the activity
1	
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T/boards/34

vulnerabilitydashboard.git

- (0) This document must be u
- (1) The time expected to be
- (2) Enter the duration to the

cted time⁽¹⁾. ected time.

respective user	
story- or task-ID	Duration of the activity ⁽²⁾
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	1.5
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. As a system admin, I want to configure a VM with required packages and networking, so that it	0.5
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 0.0
	0.0
	0.0

Sum 6.5

cted time⁽¹⁾. ected time.

What were the reasons for falling below 100%: ected time.

respective user	
story- or task-ID	Duration of the activity ⁽²⁾
	1.0
	1.0
	1.5
	1.0
	0.5
	1.0
	0.0
	0.0
	0.0
	0.0
	0.0
Su	m 6.0

cted time⁽¹⁾. ected time.

What were the reasons for falling below 100%: ected time.

respective user story- or task-ID	Duration of the activity ⁽²⁾
	3.0
	1.5
	1.5
	2.0

	1.5
	1.0
	110
	0.5
	1.0
	1.0
	1.5
	1.0 15.5
Sum	15.5

respective user	
story- or task-ID	Duration of the activity ⁽²⁾
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

ected time. What were the reasons for falling below 100%:

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

cted time⁽¹⁾.

ected time.

respective user	
story- or task-ID	Duration of the activity ⁽²⁾
	6.0
	6.0
	1.0
	2.0
	6.0
	6.0
	0.5
	4.0
	4.0
	1.0
	5.0
	1.0
	1.0
	1.0
	4.0
	1.0
	1.0
Sun	1.0 1 40.5
Suri	ı 40.5

respective user	
story- or task-ID	Duration of the activity ⁽²⁾

	2.5
	2.5 2.0
	2.0
	1.0
	1.0
	3.0
	0.0
	2.0
	2.0
	2.0
	1.0
	1:0
	0.5
	0.5
	1.0
	1.0
	1.0
	4.0
	2.0
	2.0
	2.0
	0.0 24.5
Sum	24.5
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respective user story- or task-ID	Duration of the activity ⁽²⁾
	5.0
	2.0
	4.0
	3.0

	5.5
	4.0
	1.0
	1.0
	1.0
	1.0
	1.0
Sum	28.5

ected time. What were the reasons for falling below 100%:

respective user	
story- or task-ID	Duration of the activity ⁽²⁾
	6.0
	1.0
	6.0
	10.0
	2.0
	3.0
	1.5
	5.0
	4.0
	0.0
	0.0
	20.5

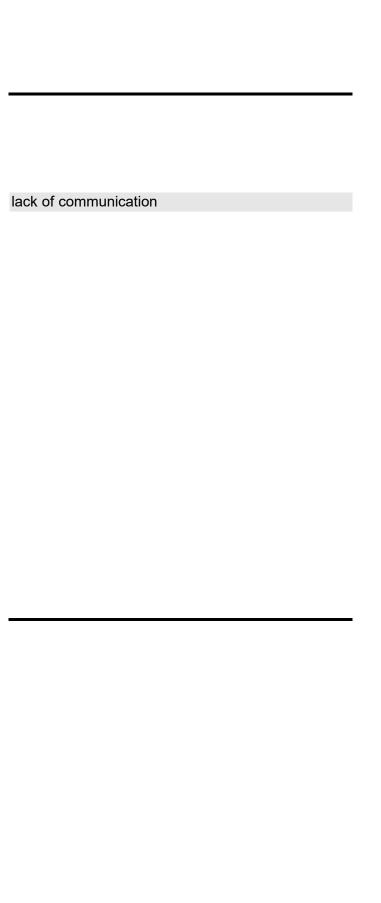
Sum 38.5

ected time. What were the reasons for falling below 100%:

respective user	(2)	
story- or task-ID	Duration of the activity ⁽²⁾	
	0.0	
	0.0	
	0.0	
	0.0	
	0.0	
	0.0	
	0.0	
	0.0	
	0.0	
	0.0	
	0.0	

Sum 0.0

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