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://agilesecgitguardians.atlassian.net/jira/core/pro
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 | |
| | |
| 2 | Set up GitLab CI/CD Runner |
| | |
| 3 | Install GitLab Runner (target: Ubuntu VM) |

| | Research appropriate tech stack for CI/CD + |
|---|--|
| 4 | security tools |
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| | |
| 5 | Virtual Machine configuration |
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| | In stall Declary Francisco and MA |
| 6 | Install Docker Engine on VM |
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| | |
| 7 | . Create Dockerfiles for containerization |
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| | Socrab Citl ob Sonyor Access / Authoritication |
| 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 |
| | 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 | |
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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 |
| | 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 harming the pipeline or security analysis 2 Documented all the rest of the processes added acceptance criteria for the rest of the springs added credentials in the yml for dockerhub for 4 both pipelines Installed and configured OWASP Dependency-Check locally on VM - 2 hrs 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 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- | r | Ta |
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| 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- | | · |
| external application for the vulnerability 13 dashboard - Document the the json formatting and the 14 artifacts acquisition- | 12 | |
| Document the the json formatting and the artifacts acquisition- | | Research a way to obtain gitlab artifacts from an |
| Document the the json formatting and the artifacts acquisition- | | external application for the vulnerability |
| 14 artifacts acquisition- | 13 | dashboard - |
| 14 artifacts acquisition- | | |
| | | |
| 15 | | 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 | |
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Sprint 5, Week 1 - Wednesday, 18.6.2025 to Tuesday, 24.6.2025

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

During this week During this week During this week

| # | Description of the activity |
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| 4 | |
|---|--|
| 5 | |
| 6 | |
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| 9 | |
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| | |

jects/AG/list?sortBy=labels&direction=ASC

gitlab-profile

- (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 |
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| 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 |
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| respective user | |
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| 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 |
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| Sum | 29.5 |

cted time⁽¹⁾.

ected time.

| respective user | |
|-------------------|---|
| story- or task-ID | Duration of the activity ⁽²⁾ |
| | 6.0 |
| | 6.0 |
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| respective user | |
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| story- or task-ID | Duration of the activity ⁽²⁾ |

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

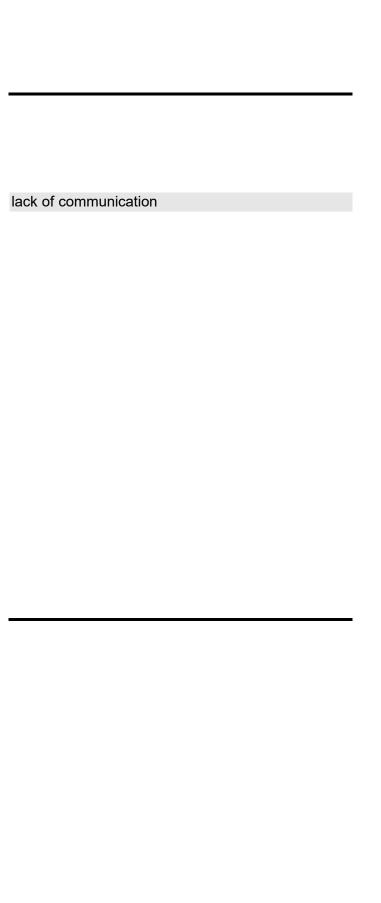
| respective user story- or task-ID | Duration of the activity ⁽²⁾ |
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