Welcome

Threat Validation Group D- This survey is not fully compatible with mobile browsers, please open it on a PC browser

This experiment will collect data on behalf of Vrije Universiteit Amsterdam, the Netherlands. The scientist in charge is Dr. Katja Tuma. This survey has been approved by the VUA Ethics Board.

You are going to be asked if you agree that your ANONYMIZED answers in this experiment can be used for research and educational purposes and in particular it would be shared with PhD candidates to evaluate the success of the interventions. If you reply

- **YES: Any personally identifiable information (PII) will be removed before the rest of the data is shared/analysed.**
- **NO: Your responses will be removed/not considered during data analysis.**

The full consent form is available via this link. You can also withdraw the consent at any time by exiting/closing this survey.

Do you agree that your ANONYMIZED answers in this experiment can be used for research purposes?

- ◯ Yes
- ◯ No

You have already received;
1. A lecture on threat analysis using STRIDE (You can watch the lecture again here)
2. A short scenario description of modifying and updating repositories on GitHub.
3. A short description of a pod deployment on Kubernetes.

In this Experiment;
You will also be presented with a list of security threats to each scenario separately. You will be asked to mark the threats for correctness (We define a correct threat as that which is likely to occur regardless of the residual impact; high, medium, low).

Please, use only the survey buttons to navigate the survey (do not use the browser buttons).

Experimental procedure:
1) In the first part (Block 1) - you will find again a link to the scenario descriptions (a word document description is also provided). You will also be presented with a list of threats and decide on each threat about its correctness. Mark ONLY the threats you assessed as being correct/realistic.

2) You will then receive the second scenario, repeat the same procedure as above in the second scenario.

3) At the end of the survey, we will ask a few additional questions about the task (Block 2), your personal background (Block 3), and about the process of the experiment (Block 4).

After 1h:45min you should be done with the task.

Happy threat analyzing!

Group D noDFD noGPT GitHub

1.1 Follow the links to;
The scenario: - GitHub scenario (Please open in a new tab)
The walkthrough (Please open in a new tab)

IMPORTANT: Please do not share this video with other students that belong to another group!

1.2 Here is a word document of the scenario you just watched: Github scenario

Mark the correct applicable threats* in the list of threats linked on this file. In the text box below each threat, please provide a short justification for the threats you assessed as being realistic
List of threats (Please open in a new tab)

Note*: Correct applicable threats are security threats that are realistic and pose an actual threat to the system. This means that the attack scenario can technically be carried out (i.e., the attack is feasible). In addition, if any threat related assumptions are made, they must not contradict the case description in any way. We define a correct threat as that which is likely to occur regardless of the residual impact; high, medium, low.

- [ ] 1. STOLEN-AUTH-INFO
- [ ] 2. LEAKED-CONFIG-FILE
- [ ] 3. DOS-SERVER
- [ ] 4. MALICIOUS-CODE-GITHUB
- [ ] 5. ELEVATION-PRIVILEDGED-ACCESS
- [ ] 6. DOS-REMOTE-REPO
- [ ] 7. DISCLOSE-THIRD-PARTY
- [ ] 8. ELEVATION-PRIVILEDGED-REPO
- [ ] 9. ELEVATION-PRIVILEDGED-CODE
- [ ] 10. EXPLOIT-HTTP-PROTOCOL

Please provide your justification for why you marked it as being realistic or not.

1. STOLEN-AUTH-INFO	
2. LEAKED-CONFIG-FILE	
3. DOS-SERVER	
4. MALICIOUS-CODE-GITHUB	
5. ELEVATION-PRIVILEDGED-ACCESS	
6. DOS-REMOTE-REPO	
7. DISCLOSE-THIRD-PARTY	
8. ELEVATION-PRIVILEDGED-REPO	
9. ELEVATION-PRIVILEDGED-CODE	
10. EXPLOIT-HTTP-PROTOCOL	

Group D noDFD noGPT K8

1.1 Follow the links to;
The scenario: Kubernetes scenario (Please open in a new tab)
The walkthrough (Please open in a new tab)

IMPORTANT: Please do not share this video with other students that belong to another group!

1.2 Here is a word document of the scenario you just watched: Scenario Description

Mark the correct applicable threats* in the list of threats linked to this file. In the text box below each threat, please provide a short justification for the threats you assessed as being realistic
List of threats (Please open in a new tab)

Note*: Correct applicable threats are security threats that are realistic and pose an actual threat to the system. This means that the attack scenario can technically be carried out (i.e., the attack is feasible). In addition, if any threat-related assumptions are made, they must not contradict the case description in any way. We define a correct threat as that which is likely to occur regardless of the residual impact; high, medium, low.

- [ ] 1. LEAKED-PRIVILEGE-REMOTE
- [ ] 2. SPOOFING-AUTH-WORKLOAD
- [ ] 3. DOS-WORKERNODE
- [ ] 4. ELEVATION-PRIVILEGE-MALICIOUS-IMG
- [ ] 5. EXPLOIT-PRIVILEGED-CONTAINER
- [ ] 6. PORT-JAMMING-NETWORK-POLICIES
- [ ] 7. LEAKED-SECRET-DOCKERFILE
- [ ] 8. CHAIN-ATTACK-MALICIOUS-INPUTS
- [ ] 9. UNAUTH-CONFIG-TAMPERING
- [ ] 10. SPOOFING-LAYER-3

Please provide your justification for why you marked it as being realistic or not.

1. LEAKED-PRIVILEGE-REMOTE	
2. SPOOFING-AUTH-WORKLOAD	
3. DOS-WORKERNODE	
4. ELEVATION-PRIVILEGE-MALICIOUS-IMG	
5. EXPLOIT-PRIVILEGED-CONTAINER	
6. PORT-JAMMING-NETWORK-POLICIES	
7. LEAKED-SECRET-DOCKERFILE	
8. CHAIN-ATTACK-MALICIOUS-INPUTS	
9. UNAUTH-CONFIG-TAMPERING	
10. SPOOFING-LAYER-3	

Block 2: Perception Questions

2.1 How do you rate the usefulness of the information sources (in the handout material) you were given for the task (that is, marking correct applicable threats)?

	1 (useless)	2 (somewhat useful)	3 (neutral)	4 (very useful)	5 (very useful, could not do without)
Scenario description	○	○	○	○	○
Sequence diagram	○	○	○	○	○
Threat description	○	○	○	○	○
STRIDE threat category	○	○	○	○	○
Threat assumptions	○	○	○	○	○
Affected components	○	○	○	○	○

2.2 You were sufficiently familiar with GitHub to execute the task

- ○ Strongly disagree
- ○ Disagree
- ○ Neutral
- ○ Agree

- ◯ Strongly agree

2.3 You were sufficiently familiar with Kubernetes to execute the task

- ◯ Strongly disagree
- ◯ Disagree
- ◯ Neutral
- ◯ Agree
- ◯ Strongly agree

2.4 You were sufficiently familiar with the STRIDE threat categories to understand the threat descriptions.

- ◯ Strongly disagree
- ◯ Disagree
- ◯ Neutral
- ◯ Agree
- ◯ Strongly agree

2.5 Rate the difficulty of marking the correct applicable threats.

- ◯ Very Easy
- ◯ Easy
- ◯ Neutral
- ◯ Hard
- ◯ Very Hard

2.6 Rate your confidence that your solution is correct.

- ◯ 0-20%
- ◯ 20-40%
- ◯ 40-60%
- ◯ 60-80%
- ◯ 80%-100%

Block 3 : Demographics

Thank you for answering the questions thus far. Next, we will ask you some questions about your personal and professional background.

3.1 What gender do you identify with?

- ◯ Male
- ◯ Female
- ◯ Non-binary
- ◯ Prefer not to say

3.2 What is your age?

- ◯ Under 25
- ◯ 25 - 35
- ◯ 36 - 45
- ◯ Above 45

3.3 What is your Nationality? Choose the country that coincides with your ethnic/cultural background

3.4 What is your current role (professional occupation)?

- ◯ System Administrator
- ◯ Devops Engineer
- ◯ Software Architect
- ◯ Software Engineer
- ◯ Product Manager
- ◯ Quality Assurance/Tester
- ◯ Security Manager
- ◯ Other (Please specify)

3.5 How long have you been working in this role?

- ◯ Less than a year
- ◯ 1- 5 years
- ◯ 6 - 10 years
- ◯ 10 - 20 years
- ◯ More than 20 years (Please specify)

Block 4 : Process Questions

4.1 You had a clear understanding of what the task asked you to do?

- ◯ Strongly disagree
- ◯ Disagree
- ◯ Neutral
- ◯ Agree
- ◯ Strongly agree

4.2 How long did it take you to read the material provided (including watching the training video)

4.3 The training video prepared you sufficiently to carry out the task.

- ◯ Strongly disagree
- ◯ Disagree

- ◯ Neutral
- ◯ Agree
- ◯ Strongly agree

4.4 If you have additional comments or remarks on this experiment, please enter the here (optional):

4.5 Kindly leave your Upwork profile below for the ease of processing payments