

Exercise Session 7

Introduction to the DTF Project

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Reminder about Project 1 (ACME)

- **Deadline is tomorrow (6.11.2020) at 23:59!**
 - This deadline is hard and will be automatically enforced.
 - The last commit before that deadline is relevant for the project grade.
 - Be aware that the resources of the CI testing might be under stress if many last-minute submissions are done simultaneously .
 - If the CI takes a long time, this will not be accepted as an excuse for delayed submissions.



CTF and DTF Challenges

- **Capture-the-Flag (CTF) Challenge:**
Find secrets hidden in a system/application that is vulnerable on purpose
 - → Exercises on HackingLab
- **Defend-the-Flag (DTF) Challenge:**
Secure a system/application that is vulnerable on purpose
 - → In this project!



What You Get

- **Access to an insecure VM (hosted online)**
 - Necessary access credentials available after you log in on grader.dtf.netsec.inf.ethz.ch
- **A list of hints about the vulnerabilities**
 - In the project description on GitLab under [NetSec 2020 Student Resources / projects](https://gitlab.inf.ethz.ch/NetSec2020/StudentResources/projects)
- **A personal Git repo for your solution**
 - Your solution: A script that fixes the VM vulnerabilities in an automated fashion
 - Git repository is available under gitlab.inf.ethz.ch

Grader Application (grader.dtf.netsec.inf.ethz.ch)

DTF PROJECT

Overview

Results

Overview for simonsch

VM state: no vm

To participate in the project please press the "Create VM" button below.

Create VM



Grader Application (grader.dtf.netsec.inf.ethz.ch)

DTF PROJECT Overview Results

Overview for simonsch

Your most recent results are displayed below, including whether it was a graded result or not. You can check out the revisions that were graded using `git checkout REVISION`.

ID	Started	Finished	Points	Graded	Revision
71	2020.10.31 16:16:40	2020.10.31 16:17:00	0	true	3bad290506
70	2020.10.31 16:02:41	2020.10.31 16:03:01	0	false	-

Results of the test runs

VM state: ready

IP: 167.99.248.78

Username: simonsch

Password:

The access credentials for your personal VM

You can check your current VM state using this button. It will report the grading results of your current VM state, but these **DO NOT** count towards your project grade

Check VM

Test the VM in its current state

You can grade your script with this button. The grading process takes a few minutes to run. You can continue using your VM while the grader does its work. The grader will only score what you have committed to your solution repository.

You can re-grade your VM once the running grading process finishes.

Grade Solution

Grade the currently committed solution script

You can reset your VM using the following button. Your results will be kept, but be warned: you lose **ALL** of your progress.

Reset VM

Reset VM state
Clone current solution into VM



Information about the project

- You have Internet access on your VM.
- You can start with the project now.
- The computational resources of the grading environment are limited.
Do not test your script in the last minute!



Information about the project

- On rare occasions, your VM may not be properly created.
If you experience problems, contact us via a confidential issue on GitLab.
- Last submission before
18 December 2020
23:59
determines grading.



Questions?

- If you have any questions during the project time, please use the Gitlab issues (as for the course)