

Capstone Project | Attack Simulation



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Hubert Levy is the new CISO (Chief Information Security Officer) for BBank and has come up with the idea of dedicating more resources to threat detection, an area that the information security team has not been able to dedicate time to because they are overloaded. This situation was what motivated Mr. Levy to open a job opportunity for a detection engineer.

After several interviews you have been hired as a detection engineer and your first task is to create a proof of concept where you demonstrate that you can simulate techniques and tactics used by cybercriminals and validate that our detection system works.

Mr. Levy was recently at Blackhat arsenal (<https://www.blackhat.com/html/arsenal.html>), where he had the opportunity to see a demo of the atomic red team along with Lima Charlie performing basic testing on **MITRE ATT&CK** and it seemed to him that it could work on BBank.

So, you were instructed to do the proof of concept with these two tools. Levy also authorized you to create a team of up to 4 people, as he is a believer in teamwork.

Requirement

To develop this project, the infrastructure team recommends that you use VirtualBox or VMware Workstation to create a local lab.

This is a technical investigation, so you must define the technical requirements.

Deliverables

- Executive report summarizing the test results and your recommendation
- Technical report detailing all the steps to deploy the environment, must include screenshots
- Record at least 1 video showing the execution of at least 3 techniques
- Deliver a presentation of no more than 15 minutes to the CISO

You are free to present your findings using your own format. Remember that this is your first assignment and the CISO's expectations are high.

References

- <https://limacharlie.io/>
- <https://github.com/redcanaryco/atomic-red-team>
- <https://atomicredteam.io/>
- <https://attack.mitre.org/>
- <https://www.virtualbox.org/>
<https://www.vmware.com/products/workstation-player.html>

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