



CSE 543: Information Assurance and Security

Using Blockchain and Machine Learning to significantly improve the security of Cloud-based Systems

Group 14 Weekly Report - 9

Person prepared this report: Dheeraj Neela and Sujana Duvvuri Venkateswarlu.

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List of members

1. Dheeraj Neela (Group Leader)
2. Sai Greeshma Gandham (Deputy Leader)
3. Disha Prakash Bhukte
4. Meghana Amirineni
5. Aditi Shashank Joshi
6. Sujana Duvvuri Venkateswarlu
7. Akhil Kumar Gudipoodi

Meeting Notes

1) 03/16/2022 - 5:00 PM

Exploration and discussion on Account Hijacking.

2) 03/19/2022 - 11:00 AM

Brainstorming on Account Hijacking in Cloud and the related use-cases.

3) 03/21/2022 - 5:00 PM

Review of the use of ML and Blockchain to mitigate Account Hijacking.

Tasks Summary

Task Number	Task Name	Details of Task	Member	Status
1	Account Hijacking	Review of type of attacks and deep dive into Account Hijacking.	Akhil Kumar Gudipoodi and Sai Greeshma	Completed
2	Account Hijacking Threats in Cloud	Exploration of different Account Hijacking in Clouds and a deep dive in terms of use-cases.	Disha Prakash Bhutke and Sujana	Completed
3	Types of Account Hijacking	Brainstorming on types of Account Hijacking attacks such as phishing, sending spoofed emails	Meghana Amirineni, Aditi, and Dheeraj	Completed
4	Use of ML to mitigate Account Hijacking	Researching the ML techniques which are used for preventing Account Hijacking.	Sujana, Dheeraj and Akhil Kumar Gudipoodi	In Progress
5	Use of BlockChain to mitigate Account Hijacking	Researching the Blockchain techniques which are used for preventing Account Hijacking.	Meghana Amirineni, Disha Prakash Bhukte, Aditi	In Progress

Task Progress

Task Name	Member	Date of Review	Reviewer(s)	Review Conclusion	Recommended Action
Exploration of Backdoor Threats in Cloud	Disha Prakash Bhutke and Sujana	03/16/2022	Aditi Shashank Joshi and Dheeraj	Satisfactory	No Action Required
Reviewing Types of Backdoor Attacks	Meghana Amirinani, Aditi and Dheeraj	03/16/2022	Akhil Kumar Gudipoodi and Sai Greeshma	Satisfactory	No Action Required
Understanding Account Hijacking	Meghana Amirinani, Sujana, and Disha Prakash Bhutke	03/19/2022	Akhil Kumar Gudipoodi and Sai Greeshma	Satisfactory	No Action Required
Exploration of Account Hijacking Threats in Cloud	Aditi Shashank Joshi and Dheeraj.	03/21/2022	Disha Prakash Bhutke and Sujana	Satisfactory	No Action Required
Reviewing Types of Account Hijacking	Akhil Kumar Gudipoodi and Sai Greeshma	03/21/2022	Meghana Amirinani, Aditi and Dheeraj	Satisfactory	No Action Required
Use of ML to mitigate Account Hijacking	Sujana, Dheeraj and Akhil Kumar Gudipoodi	03/21/2022	Meghana Amirinani, Disha Prakash Bhukte, Aditi	Needs Work	Needs more research
Use of Block Chain to mitigate Account Hijacking	Meghana Amirinani, Disha Prakash Bhukte, Aditi	03/21/2022	Sujana, Dheeraj and Akhil Kumar Gudipoodi	Needs Work	Needs more research

Issues

1. No Issues

Gantt chart for showing the major tasks

