



CSE 543: Information Assurance and Security

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

Group 14 Weekly Report - 7

Person prepared this report: Disha Prakash Bhukte and Aditi Shashank Joshi

Person approved this report: Dheeraj Neela

Person submitted this report: Dheeraj Neela

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) 03/03/2022 - 7:00 PM

Discussion on DDoS attacks and distribution of topics between the group members.

2) 03/04/2022 - 6:00 PM

Review of DDoS attacks and discussion on the use of ML and Blockchain to mitigate them.

3) 03/07/2022 - 8:00 PM

Review of the use of ML and Blockchain to mitigate DDoS attacks.

Tasks Summary

Task Number	Task Name	Details of Task	Member	Status
1	Exploring Blockchain technology	Exploring Blockchain technology to improve cloud security.	Meghana Amirineni, Sujana and Disha Prakash Bhukte	Completed
2	DDoS Attacks and review	Exploring the DDoS attacks, gathering papers, and brainstorming.	Everyone	Completed
3	Types of DDoS Attacks	Identifying types of DDoS Attacks.	Sai Greeshma Gandham	Completed
4	DDoS Attacks in Cloud Computing	Identifying types of DDoS Attacks in cloud computing.	Aditi Shashank Joshi and Dheeraj Neela	Completed
5	Use of ML to Mitigate DDoS Attacks	Researching the ML techniques which are used for preventing DDoS attacks.	Akhil Kumar Gudipoodi and Disha Prakash Bhukte	In Progress

6	Use of Blockchain to mitigate DDoS Attacks	Researching the Blockchain techniques which are used for preventing DDoS attacks.	Sujana and Meghana Amirineni	In Progress
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Task Progress

Task Name	Member	Date of Review	Reviewer(s)	Review Conclusion	Recommended Action
Exploring blockchain technology to improve cloud security	Meghana Amirineni, Sujana and Disha Prakash Bhukte	03/03/2022	Sai Greeshma Gandham, Aditi Shashank Joshi and Akhil Kumar Gudipoodi	Satisfactory	No Action Required
Review of DDoS Attacks and its types	Sai Greeshma Gandham	03/04/2022	Dheeraj Neela, Aditi Shashank Joshi, Sujana	Satisfactory	No Action Required
Review of DDoS Attacks in Cloud Computing	Aditi Shashank Joshi and Dheeraj Neela	03/04/2022	Disha Prakash Bhukte and Akhil Kumar Gudipoodi	Satisfactory	No Action Required
Review of ML Techniques for prevention of DDoS attacks	Disha Prakash Bhukte and Akhil Kumar Gudipoodi	03/07/2022	Meghana Amirineni, Sujana, Aditi Shashank Joshi	Needs Work	Needs more research

