Project Title

Software Defined Network (SDN) Intrusion Detection Using Machine Learning

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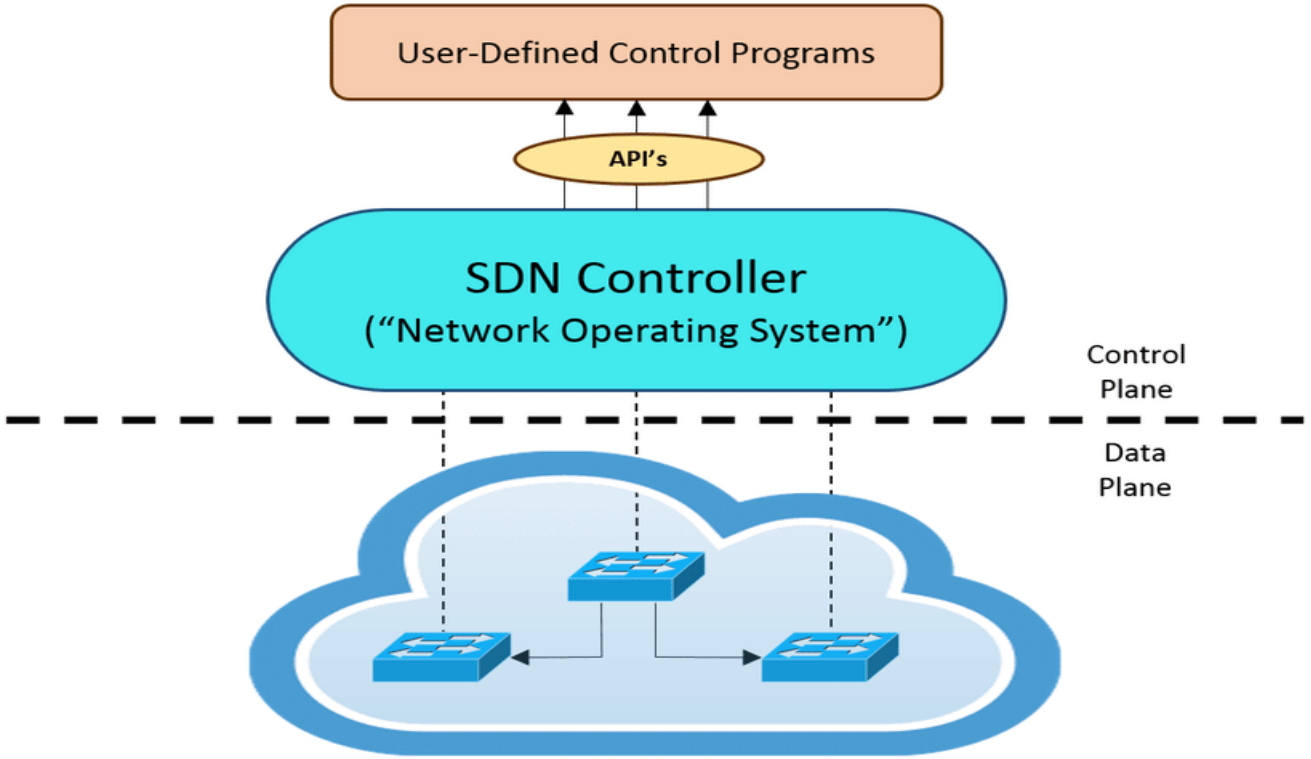
Background

Software-defined networking (SDN) is a networking model where software-based controllers are used to



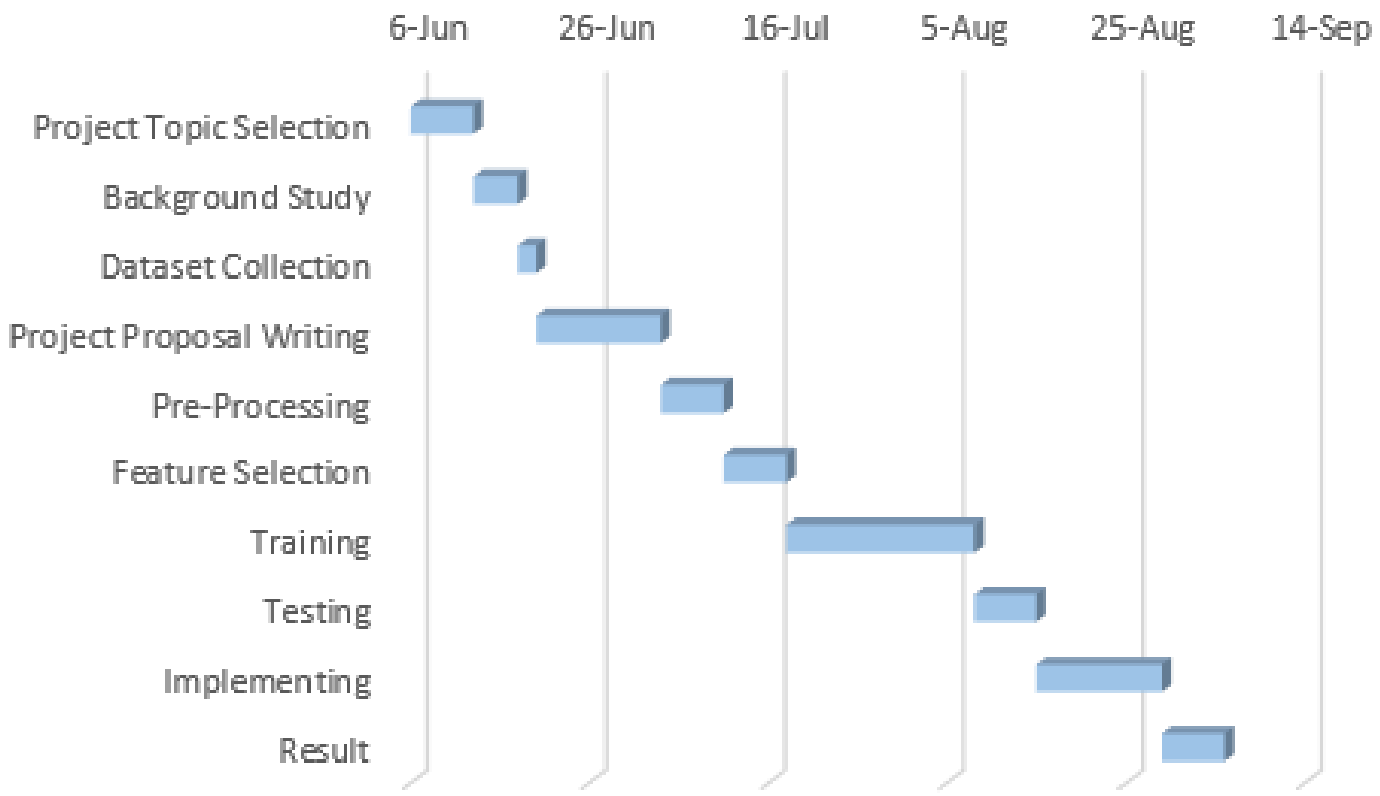
What problem to be solved?

- SDN, one of the most populist networking model is not risk free.
- It is used by many big companies and government sectors.
- Hackers try to take control of it in order to get confidential information.
- As a result many company or even people of a certain countries information will be gained and it can be used to hamper a nation’s security.

How the problem will be solved

- As discussed earlier, SDN is not risk free.
- Many information can get into wrong hand without even the owner realizing it.
- As it is used by big company and even government sectors, an entire nation’s security will be at stake.
- However if the attack can be predicted early than this data lose can be prevented.
- Machine learning algorithms like Random Forest, Decision Tree can help to predict an attack. Even if not early at least it can predict in an early stage. As a result many data lose can be prevented.

Work Progress (Gant Chart)



Conclusion

- SDN which is the short form of software defined network is one of the most populist model.
- As it is becoming popular, unethical people are giving their eye on it.
- Hackers plan to take control of the model and access many information.
- Many people or even a nation’s security is at stake.
- Our system will take help of various machine learning algorithm to predict the attack before it takes place or at earliest stage
- As a result many data lose can be prevented.

Thank you