CYB -552 TEARDROP MEDICAL VIEW

Attacker machine – kali Linux

Ip address – 192.168.100.4

Target Machine – Ubuntu

Ip address - 192.168.100.5

A screenshot of a computer screen

Description automatically generated

A screenshot of a computer program

Description automatically generated

A screenshot of a computer

Description automatically generated

Timeline for the Incident:  
  
The Kali Linux(attacker machine) delivered fragmented packets in waves, each with overlapping and larger payloads, to exploit particular flaws in the Target(Ubuntu) machine's processing of fragmented IP packets.

Due to its inability to appropriately reassemble the corrupted packets, the Ubuntu system experienced failures or crashes. It resulted in the total suspension of services in particular cases.  
This disturbance caused system interruption, which suspended important clinic activities including patient record access and telemedicine services.

A screenshot of a computer

Description automatically generated

A screenshot of a computer program

Description automatically generatedA screenshot of a computer program

Description automatically generated

Impact:

a Teardrop exploit against the Ubuntu machine using Kali Linux. The assault caused the Ubuntu system to crash owing to incorrect packets, resulting in service outages such as unavailable patient records and telemedicine errors. Operational disruptions, financial damage from postponed appointments, and data security issues were the outcomes of this. When the attack started, Kali Linux itself was unaffected. Up until the onslaught was lessened, the clinic's capacity to deliver necessary services was seriously hampered.

Colcusion:

To tackle the Teardrop Attack, The clinic updates the Ubuntu infrastructure, installing sophisticated network monitoring tools to identify malicious activity, and providing staff training on identifying cyberthreats to stop such situations in the future. Regular backups of patient data were also planned to prevent data loss or corruption during assaults.