Network traffic analysis

Saturday, December 9, 2023

used

NTA = examine network traffic to Characterize comprer ports/protocols

- establish baseline
- · monitex/rspond to threats
- · greatest possible insight to return

detect avanables and help w/ meeting Security guidelines

collecting real-time traffic

Setting baseline for day-2-day network

identifying and analyzing traffic

from monstandard parts, hosts,

L. .. ive

errors

differing malware on the wive

Kegived skills and knowledge

TCP/IP stack and OST Made!

how networking traffic and host applications interact

Basic retworking concepts

ouderstand what types of traffic

we will see at each stage

Common posts and protocols helps when spotting alnormal conhacion

Concepts of It packets and sublayers understand wow TCP/ UDP comm

Protocol transport enough ation

Protocol transport enough about

each layer encapsulates the previous

Encironment and gripment

- · tepaump
- · Tshark = cli of wireshark
- · Wireshask
- · Nbrep = grep for network packets
 HTTP/FTP best
 - · topick = cli packet sneffer for tracking and reassembling TCP Streams
- remork tape = Taps; taking copies
 of network traffic and sending
 to another place for analysis
 can got packet back on sive as
 if nothing changed

- networking span parts = copy from

 12-11) devices during egress

 or ingress processing and send

 back to collection point

 part is often mirrored
- · Elastic stack colonivation of tools that can take data from many sarces, injust data, viscolize it to evable searching and analysis

· SIEMS

Berkeley packed filter BPF - raw interlea to read/write from data-link layer

NTA Workflow

1. Ivjest traffic
capture filters

capture minus

2. Reduce vois by filtering

2. Avalyze and explore look at specific worts, protocols, etc.

- everypted?

- unautu access?

- abnormal host commis?

4. Refect root issue

- errous?

- benign or realicions?

- IDS(IPS

5. Fix and monitor