

Exam A

Thursday, October 19, 2023 4:14 PM

Library protection

Server room

- locking cabinets for physical equip
- Video surveillance
- PIR sensor

Employee laptops offsite

- FDE
- biometric reader

Lending systems onsite

- Smart card because onsite

Open area laptops users

cable locks

Network protocols

"website" = HTTPS

Sync time = NTP

"access switch w/ CLI" = SSH

calls = SRTP

"gather metrics from" = SNMPv3
remote routers

Auth methods

Sign a sign-in sheet = something you
can do

only login through VPN = somewhere you
are

Firewall rules

Source	Dest	Protocol	Port#	Allow/ Block
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10... 10... TCP 443
or
UDP

TCP 389 = LDAP

TCP 3389 = RDP

backdoor testing = active recon

SRTP = AES

file storage subsystem

- Partition data
- Temp file systems

kernel stats = stored in mem

ROM = type of mem storage

process table = stored in RAM

ROM retains data on power off/reboot

Ex: BIOS

Multifunction device MFD

Ex: all in one printer

ISO 27001 = standard for info
sec manage systems

ISO 27002 = controls + guide

ISO 27701 = PII

ISO 31000 = risk manage

how to prevent external device data exhi

create OS rule to block use of
removable media

Can block write to removable
media

host firewall and UTM do not
monitor removable devices

apps ≠ removable devices

SIEM

- Save log info
- Create audit reports from single db

archive encryption keys after account
disable is good for if data needs
to be retrieved

botnet would not include trojan

on-path = mitm would not be able
- - - - - valid ssl ticket

to provide valid SSL ticket

"unsecure connection"

"using creds from another site" = federation

MTBF = how often will fail between
repairs

CASB

- visibility of app use
- data security policy use
 - ex: verify encrypted data transfers

X net reports

X VPN

... in security

VPN concentrator - provide security connectivity

"reset file system and reboot"
stuck rebooting over and over

supposed to be sign that race condition occurred

not resource exhaustion because
not a storage/memory issue

Login banner - "lets people know you
are watching logins"

usage policies + legal restrict

different control

NON-cred scan can see version of
web server software

- X file perms
- X OS files
- X local users

nmap

802.1X = central auth server
can use username/password

curl to retrieve, grep to search

Scanless = port scan w/ proxy

Separation of duties = dual control

Rainbow tables

Rainbow tables

- built prior to attack
- if diff hashing tech used, must make a new tabl
- won't be useful if salt

SSID Broadcast suppression = hide SSID

from list of available net but
can still connect

lack of vendor support and not EOL
because it was "a new product"

DNS sinkhole - redirect and id devices
that try to reach C2 server
segment devices infected w/ malware

Log files

Log files

- **dump** = contents of sys memory
- **Web** = all web pages accessed
- **Packet** = net comm
- **DNS** = which domains were accessed by internal sys

maybe *

trusted boot = verify OS

secure boot = bootloader

POST **Power-on self test** - hardware check before booting OS

"deploying a new mobile app"

VDI might be correct if it is talking about the app only

is talking about the off on us

"track progress of parts as they are used on assembly line" = blockchain

Volatility

- CPU registers
- cache
- router table
- ARP cache
- process table
- kernel stats
- memory
- temp file systems
- Disk
- remote (logging) monitor data
- physical config, net topology

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- archival media

QA \neq baseline test

Split knowledge - limit knowledge
any 1 person knows

dual control - 2 people must be
present

traceroute - maps each hop by increment
TTL during each request

"number of sessions from IP with
TTL = 0"

VULN scans are specific and
"for TTL = 0"

VUIN scans are specie
won't get info if TTL=0

DNS TTL $\neq 0$

banner grabbing can be good recon
get type, version, and config of
services

TTL $\neq 0$

"provide creds in morning and rest
have to for rest of day"

Kerberos - ticket based system
for SSO

no SSO:

- TACACS +

- LDAPS
- 802.1X

Setting up VLAN does not need extra resources

Connect to org UPN and can't print to home printer

* VPN is full tunnel because traffic is being redirected through UPN rather than in split tunnel

* could maybe be filtered by VPN client but "not common"

digital sig = add trust to cert

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X.509 - defines structure of cert
everyone can view contents of cert

data custodian =? set access rights
and controls

TPM = encryption keys

User Agent header = user device

the agent might not be cause
of IPS alert

' OR l=1; --

random net access from external IP
backdoor

ARP poisoning = local

polymorphic virus - changes itself on
each download

trojan wouldn't be the source

S/MIME = encrypt between email
Clients

IMAP = does encrypt info downloaded
from server but not outgoing

SSL would encrypt server to server,
not clients