Possible Questions

051 Layer - Définite question

Ports and Services - Well known ports 2)

Firewall - IDS - IPS 3)

TLS - Might 4)

Hashing, Sy. Encryption & Syme 3)

CIA - Give Some example.

Difference b/10 Router and a Switch? チ) -MAC - Switch - Connect hosts internally _IP - Router - Connect- two networks

Encryption - De

Hashing - Hash function

mapping dalla into a fixed Set of Values (Mapping is irreversable? M- Message

(Data) {H -> M conginal } guessing

Hash Value One way hash function

Message

$$f(x) = x$$

$$f(5) = 25$$

$$x = 5$$
Two way function
$$x = 5$$

* How can't derive the original value from the hash
Functions Value. Hash function - one way
* What's the use of a hash Value? — Integrity - Verify modified (0) not
M-h(M)-) change the hash. M'-h(M)-) change the hash. Even a slight change in the message will
change the hash value. — Software Integration
- (Hash) Re-compute - Hash-Authorsh Don't match - Vivus (a)
Midified tile
- For String parswords (a) Sensitive data - IB (a) a parsword file. got leaked
Plain parswords - Can be read Hashed passwords - Even after a lead
Can't guess the
DNS Records 1) Type A - STNS Records
25 AAAA - XXX Records 35 MX - 8) ANAME
4) CNAME-
Salting in a hash function
Operating - Linux 05 - letc/ pars wd file
1/2 a lot Randon that CRH) +cassword

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Veena: bt Randon Hash (RH) Southa : ERH3 - Tost) -(Dictionary altaels) cracked the password Avoid - Salt Veenay Randon value RVIM = hCM(RV) (Random Value (1 h CM (RV)) (Hash value will New Hoch Values be different) Random Value appended to the passward before hashing - To provide Secrety against dictionary attacks -(Q/A) 1) What is hashing? 2) What is the use case of a hashing? Software I dropoad /File - Authorice - Hash Value File - Data - bits File: exe : Authorise file - [windows exel(Real) windows exe > theh (X) SHA of High Value (V - File 15 authentic