

POORNIMA FOUNDATION

DETAILED LECTURE NOTES

Campus: Course:	Class/Section:	Date:
Transport Layer & Appli'M Layer		
[Applin Layer]		
TSSL Layer		
Transport Layer		
SSh layer works b/w the Applin layou and transport layer when encrypting the informant b/w dient and souver.		
toensport layer when encoupting the inform?		
blu client and server.		
SSL		
SSL handshake Cipher Alert H Abblin		
SSL Record layer protocal/P leyer		
TCP		Trempra la
IP		Internet by
Key Toods		V
- firewall		
- VPN (vistual private N/W) > enemypted (o-operate, Personal N/wmeetion.		
(o-operate, Personal Nonnection.		
- Januar Pero	vention (M/W & S/W) Continously
- gitrusion prevention (M/W & S/W) Continously Scan N/W System. Detection system.		

- Behavior Analytics (9+ uses statistics that are be carried over and stored months and yeary for usages)

Benefits of N/w Security

- 1) Protection against externed threats. -S/w updates to detect abuse techniques.
- 2) Protection against intermed threats
 Human aspects weakans the cyber selevity.
 - Courent werkers, third pourty Vendors
 (They can be unintentional, courses
 - Expensions of wireless (remote works)

 IOT devices in remote docertion

 Can make easier to there kind of

 threats.
 - Proautively monitoring and managing access can control these kind of a disasters.

Lishing

3) Increased productivity

- websites, cyber attacks, mindowntown

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- by scanning

- employee

- loyality

- lond custmer retestion of possible

e-mail



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DETAILED LEGGERE NIGHES

PAGE NO.

format of ARP

Hardware type Protocol Type

Hardware Protocal operation

Length length Request 1, Reply

Sender hardware address

foreg - 6 bytes for ethernet

Sender protocol address

eg - 4 bytes for IP

Target How address

leg-6 bytes for athernet)

9 + 13 not filled in a req.

Target protocol address

eg - 4 bytes for IP

- eg- ethernet is given type!
- 2) Protocod type 16 bit field

 IPVy > 0800,6 (ARP can be used for any higher level protocod)
- 3) Hardware dength 8-bit (length of physical address) eg FFH Ethernet value is 6

- Protocod deugth - 8 bit field (length of logical IPVy > Value 134 16-bit field defining the type of packet

ARP reply(2) - operation Sender H/w address - vouriable length

defining physical address of sender eg- athernet field is 6 bytes long. sender protocal addres- defining logical address IP protocod field is ubytesday. H/w addrum -Physical address of teaget obytes dong. for ARP req. msy - this field is all as beaux sender does not know the physical address of the target Target protocool address I pry proted two is ubyres dong