· Course 4 Week 2 Busics of IP Addressing. IP Addressy: The Baries of Binary. Binary System. > Human Beings think in terms of 10 based (seeing) numbering. -> Complex only know if the power is on (1) or off (0) -> (ompelen sty don't know any other state .. SP address Struber 9 Network Classy

IP Protocal

IPV4 is a 32-bit ashes in four outok.

From 0.0.0.0 to 255.255.255.255.

IPV4 ms 4,294,967,296 possible addresses in its asdress space.

Pecimal Biray. Methodic Possible 10.195.121.10 (00001010.11000011.0111100001001010)

Host Purtion.

Network Mask

assignment of bits used by a host or router to Jetermine how the return and subnetwork information is partioned from the hest information in a cores panding IP

as I vers.

IPV6 - 128 bis length. Ly uses 8 mexadecinal values. separatul by Colon-

Addrusing Schemas.

Unicast - Servis into te one system sending dater to intended address "

Browdcast -> sencs information to all systems on network.

Multicouts Senes inhormation to a Selected group of systems

7CP2UDP=> Transport Lager Protocol.

718158 James G. Application

Layer Overview. DNS G DHCP. Dynamic Most Configuration Botocol Client E3 DHCP T Server T MMCP Diswer (Brosede DMCP OFFEY (unicase) (Broadcast) MCP Regrest (Browland DHLP ACK CUM and Broaday

System Standard Message hossing.

Allows for separation of the sufferment of the sufferment of the sufferment.

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Ned Gov.

· User managnest

-> sewrity Auditing

-> Analysis , and obbyssing Mayages

Used to comey event Notification

Fichal IDS IPS ...

A next-heneration Firewall is part of third generation of arewall technology.

> Deep pullet inspection

-> IPS

o TIS/SSL encrypted traffic Inspection, Lossite Silvering.