INTRODUCTION TO NETWORKING

THE OSI 7 LAYER MODEL

APPLICATION LAYER

TRANSPORT LAYER

NETWORK LAYER

LINK LAYER

PHYSICAL LAYER

ex: HTML, Text, etc.

ex. TCP , UDP

ex: IP

ex: ETHERNEL

AT THESE LAYERS, THERE'S

NO NOTION OF A "CONNECTION" -IT'S JUST PACKET FORWARDING!

IP HEADERS

ITCP HEADERS

MORAJIJASA

HEADER

Source / DESTINATION ADDRESSES

SOURCE/DESTINATION PORTS; SEO/ACK #5

EX: HITP PACKET HEADER

EX: JSON/STRING PAYLOAD

TCP ATTACKS

DATA INJECTION,

RST ATTAUS,

BLIND SPOOFING

OTHER IMPORTANT PROTOCOLS

· DHCP: connecting to a network for the first time

· DNS/DNSSEC: convert hostname to IP Addres

· ARP: Connects link layer to 1P Laye

ATTACKS_

PHCP SPOOFING

BAILWICK; KAMINSKY ATTACK

ARP SPOOFING