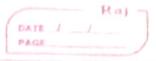
Module 2



Introduction to network Crotocol

- · Network brolocals · Worled Crust Network (VPN)
- · Firewall securily zones and proxy server

Nelwork Protocol

A set of rules used to by two or more devices on a network to describe the order of delivery and the structure of the data

Deunsmission Control Protocol (TCP)

An internet communication prolocol that allows two devices
to form a connection and stream data.

Is not limited to two derries

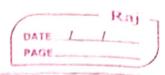
Address Resolution Protocol (ARP):

A network protocol used to determine
the MAC address of the next novter or degice
on the path

Hyper text transfer protocol secure (HTTPS)

A network protocol that provide a secure method
of communication between client and website server

Domain Name System (DNS)
A network perotocol that toxansfere branslates internet
domain name into IP addresses.



I curity brotocol SSL/TLS

Wireless Perotocols

A set of standards that define communication for wireless LAN

Wifi Protected Access (WPA)

Nurreless security protocol for devices to consect
to the internet

System identifications

Tirewall: A network security device that monitors Iraffic to and from your network

Port filtering: A firewall function that blocks or allow certain port number to limit inwanted communication

Cloud Based firewall: Softward firewall that are horted by a cloud service provider

Slateful: A class of firewall that keeps track of information passing through it and proactively filter out threats

Stateless: A class of firewall that operates based on predefined rules and dole not keep brack of uportration from data packets

Benefits of Mext gen firewalls

• Reep packet inspection

• Instrument predection

• Threat intelligence

Jurted Private Network (VPN)

VPN: A network security service that changes your public I Paddress and hides your virtual location so that you can keep your data private when you are using a public network like the interset

Errapsulation: A process performed by a VPN service that protects your data by wrapping servitive data in other data packets

Security Zones

Sewrity 20me: A segment of a relevork that protects the

Network Segmentation: A security technique that divides the network into segments

Uncontrolled Zone: Any network outside of the organization

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	Controlled	Zone:	A subre	t that protects the internal concontrolled zone
		network	from	incontrolled gove
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· Demilitarized zone (DMZ)
· Internal network

Gerory Server: Server that fulfills the request of a client by forwarding them on to other servers

Forward broxy server: Regulates and restrict a person access to the internet

Reverse Broxy server: Regulates and restrict the internation