

Think “**software**”.

This layer provides software (like email) to users on the network.

Think “**reliable**”.

This layer handles sequencing to ensure data packets are transferred reliably between two nodes on a WAN.

Think “**router**”.

This layer routes data packets to their destination.

Think “**format**”.

This layer formats data for transmission. It divides data into frames (a data link **header** and **packet**).

Think “**wires**”

This layer transfers bits over a physical connection (i.e. using wires and a NIC or router).

## **Application layer**

Hypertext Transfer Protocol (**HTTP**)

File Transfer Protocol (**FTP**) – used to transfer files between a computer and a web server.

**SMTP** – send email    **POP3/IMAP** – retrieve email

## **Transport**

Transmission Control Protocol (**TCP**)

## **Network**

Internet Protocol (**IP**)

## **Data Link**

Ethernet

## **Physical**