APPLICATION LAYER

The Application layer integrates network functionality into the host operating system and enables network services. The Application layer does not include specific applications that provide services, but rather provides the capability for services to operate on the network. These services include:

- **Interface--**provides an interface for a service to operate.
- **Communication-**-enables communication partner identification.
- **File services**--transferring, storing, and updating shared data.
- **Print services--**enabling network printers to be shared by multiple users.
- **Message services-**-transferring data in many formats (text, audio, video) from one location to another or from one user to another.
- **Application services-**-sharing application processing throughout the network and enabling specialized network servers to perform processing tasks.
- **Database services--**storing, retrieving, and coordinating database information throughout the network.

Device / or Function:

- **Application Firewalls:** Application firewalls filter by Application layer data within each packet's payload.

Protocol:

- HTTP, FTP, TFTP, SMTP, DNS, Telnet