An overlay network is a telecommunications network that is built on top of another network and is supported by its infrastructure. An overlay network <u>decouples</u> network services from the underlying infrastructure by <u>encapsulating</u> one <u>packet</u> inside of another packet. After the encapsulated packet has been forwarded to the endpoint, it is de-encapsulated.

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Most overlay networks run on top of the public Internet, which itself began as an overlay research network running over the infrastructure of the public switched telephone network (<u>PSTN</u>). Other examples of overlay network deployments include virtual private networks (<u>VPNs</u>), peer-to-peer (<u>P2P</u>) networks, content delivery networks (<u>CDNs</u>), voice over IP (<u>VoIP</u>) services such as Skype and non-native software-defined networks.

Overlay network protocols include Virtual Extensible LAN (<u>VXLAN</u>), Network Virtualization using Generic Encapsulation (<u>NVGRE</u>), stateless transport tunneling (STT), Generic Routing Encapsulation (<u>GRE</u>) and Network Virtualization Overlays 3 (NVO3).