

## Unified Threat Management (UTM)



- UTM is a network security management solution that allows administrator to **monitor and manage** the organization's network security through a centralized management console
- It provides firewall, intrusion detection, antimalware, spam filter, load balancing, content filtering, data loss prevention, and VPN capabilities using a **single UTM appliance**

### Advantages

- Reduced complexity
- Simplicity
- Easy Management

### Disadvantages

- Single point of failure
- Single point of compromise



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## Load Balancer



- A load balancer is a device responsible to **distribute network traffic** across a number of servers in a distributed system
- It can control the number of requests and protect rate-based attacks like denial-of-service (DoS) or distributed denial-of-service (DDoS)



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## Network Access Control (NAC)



- Network Access Control, also known as Network Admission Control (NAC), are appliances or solutions that attempt to protect the network by **restricting the connection** of an end user to the network based upon a security policy
- The **pre-installed software agent** may inspect several items before admitting the device and may restrict where the device is connected

### What NAC does?

- Authenticate users connected to network resources
- Identify devices, platforms, and operating systems
- Define a connection point for network devices
- Develop and apply security policies

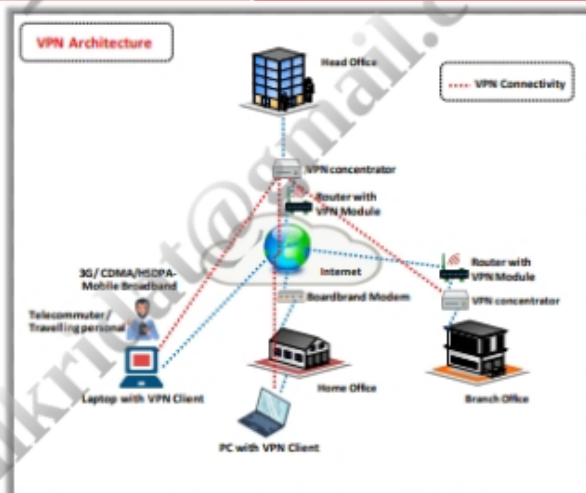


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## Virtual Private Network (VPN)



- VPNs are used to **securely communicate** with different computers over insecure channels
- A VPN use the Internet and ensures secure communication to distant offices or users within the **enterprise's network**



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