

Chapter 1: Introduction to Networks

Cisco CCNA R&S: Introduction to Networks v6.0



1.1 Globally Connected

1.2 LANs, WANs, and the Internet

1.3 The Network as a Platform

1.4 The Changing Network Environment



1.1 Globally Connected

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- Explain how multiple networks are used in every day life.
- Explain how networks affect the way we interact, learn, work and play.
- Explain how host devices can be used as clients, servers, or both.

1.2 LANs, WANs, and the Internet

- Explain how topologies and devices are connected in a small to medium-sized business network.
- Explain the use of network devices..
- Compare the devices and topologies of a LAN to the devices and topologies of a WAN.
- Describe the basic structure of the Internet.
- Explain how LANs and WANs interconnect to the Internet.

Networking Today

Networks in Our Daily Lives

- Welcome to a world where we are more powerful together, than we ever could be apart.
- Welcome to the human network.



Networking Today

Technology Then and Now

- We live in a world we **barely imagined** 20 years ago.
- What wouldn't we have without the Internet?
- What will be possible in the future using the network as the platform?



Networking Today

No Boundaries

- Advancements in networking technologies are helping create a world without boundaries.
- The immediate nature of communications over the Internet encourages global communities.
- Cisco refers to the impact of the Internet and networks on people the “human network”.



Networking Today

Networks Support the Way We Learn

- Do you remember sitting in a classroom, like this?
- You don't have to be in school anymore to take a class. You don't have to be in a classroom to have a teacher.



Networks Support the Way We Work



- The globalization of the Internet has empowered individuals to create information that can be accessed globally.
- Forms of communication:
 - Texting
 - Social Media
 - Collaboration Tools
 - Blogs
 - Wikis
 - Podcasting

Networking Today

Networks Support the Way We Work



- Data networks have evolved into helping support the way we work.
- Online learning opportunities decrease costly and time consuming travel.
- Employee training is becoming more cost effective.

Networking Today

Networks Support the Way We Play

- We listen to music, watch movies, read books, and download material for future offline access.
- Networks allow online gaming in ways that were not possible 20 years ago.
- Offline activities have also been enhanced by networks including global communities for a wide range of hobbies and interests.
- How do you play on the Internet?



Hands-on

Lab - Researching Network Collaboration Tools



Lab - Researching Network Collaboration Tools

In this lab, you will complete the following objectives:

- Part 1: Use Collaboration Tools
- Part 2: Share Documents with Others
- Part 3: Explore Conferencing and Meetings
- Part 4: Create Wiki Pages

Lab - Researching Network Collaboration Tools

Providing Resources in a Network

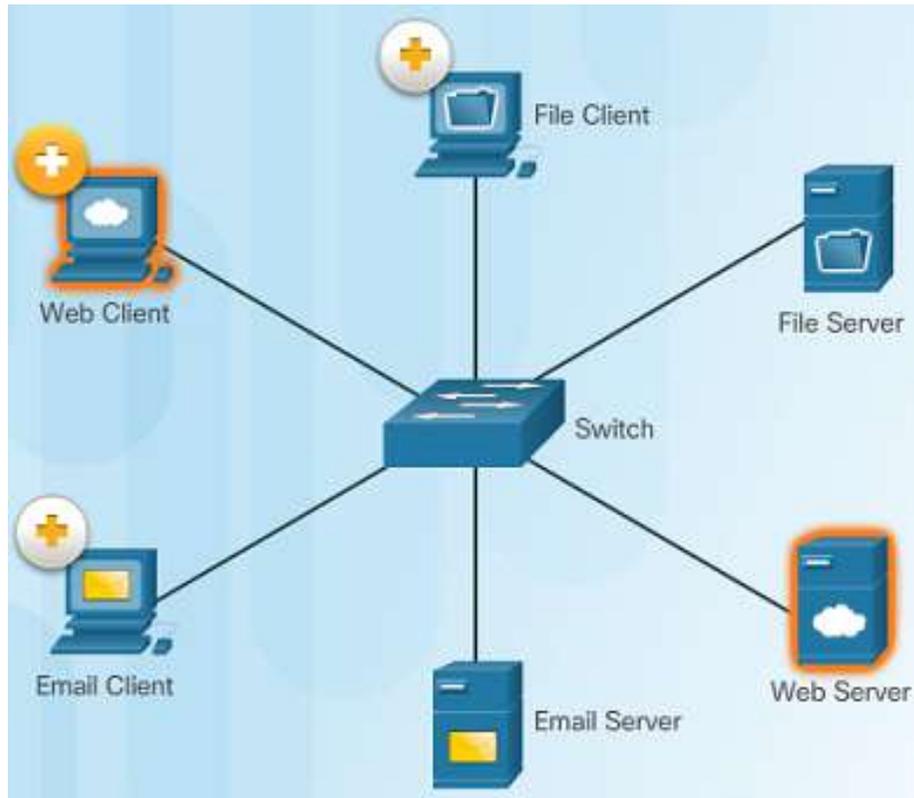
Networks of Many Sizes



- Small Home Networks – connect a few computers to each other and the Internet
- Small Office/Home Office – enables computer within a home or remote office to connect to a corporate network
- Medium to Large Networks – many locations with hundreds or thousands of interconnected computers
- World Wide Networks – connects hundreds of millions of computers world-wide – such as the Internet

Providing Resources in a Network

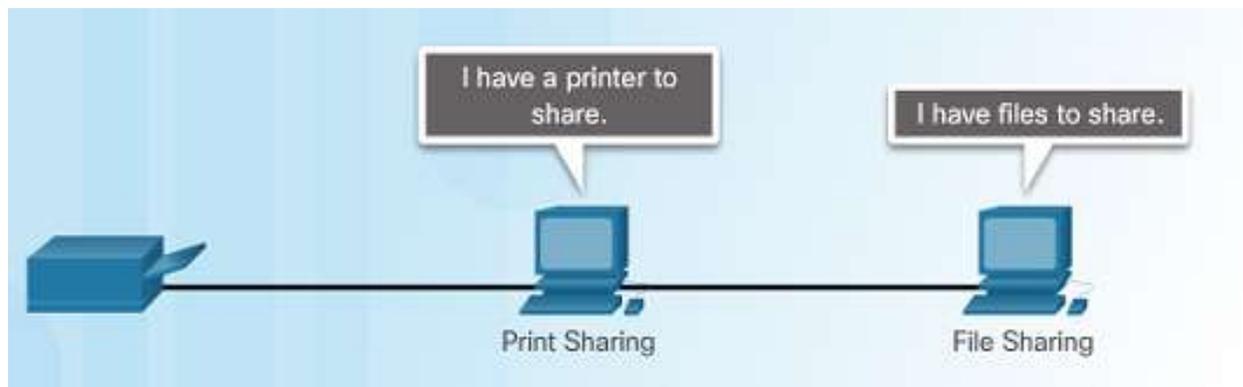
Clients and Servers



- Every computer connected to a network is called a host or end device.
- Servers are computers that provide information to end devices on the network. For example, email servers, web servers, or file server
- Clients are computers that send requests to the servers to retrieve information such as a web page from a web server or email from an email server.

Providing Resources in a Network

Peer-to-Peer



- Client and server software usually run on separate computers.
- However, in small businesses or homes, it is typical for a client to also function as the server. These networks are called peer-to-peer networks.
- Peer-to-peer networking advantages: easy to set up, less complex, and lower cost.
- Disadvantages: no centralized administration, not as secure, not scalable, and slower performance.



1.2 LANs, WANs, and the Internet

1.1 Globally Connected

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- Explain how host devices can be used as clients, servers, or both.

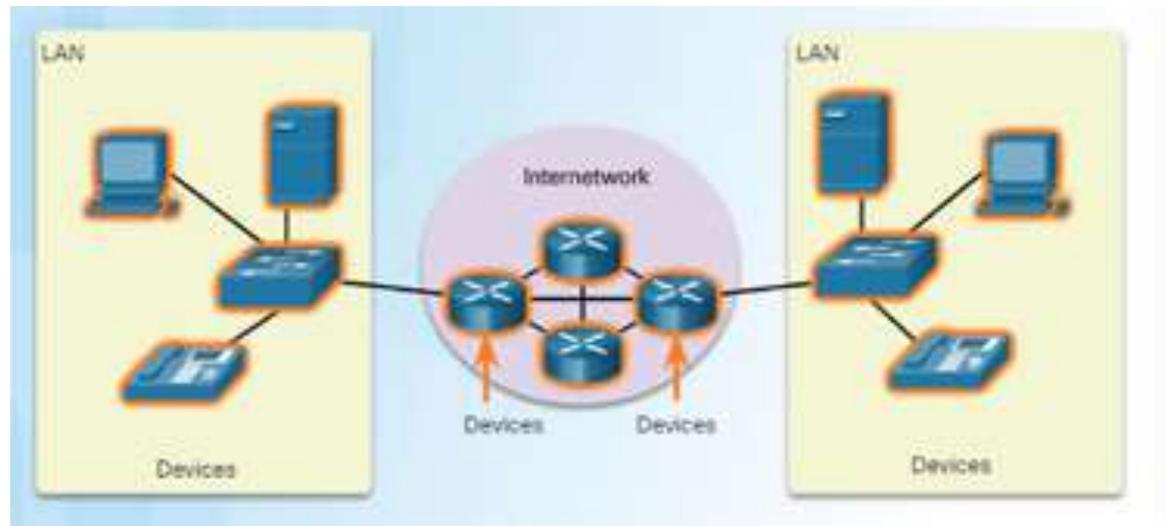
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Network Components

Overview of Network Components

- A network can be as simple as a single cable connecting two computers or as complex as a collection of networks that span the globe.
- Network infrastructure contains three broad categories of network components:
 - Devices
 - Media
 - Services

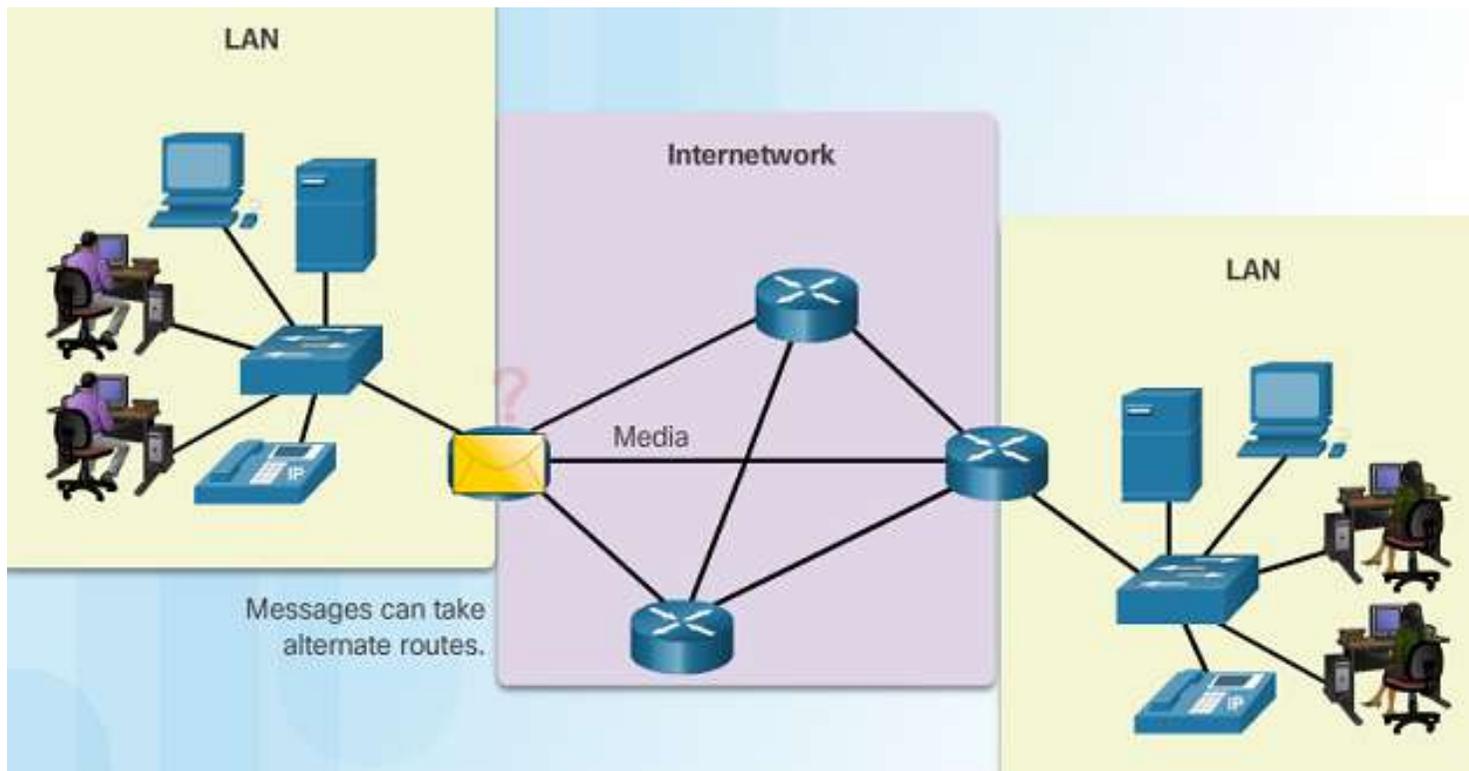


LANs, WANs, and the Internet

Network Components

- End Devices

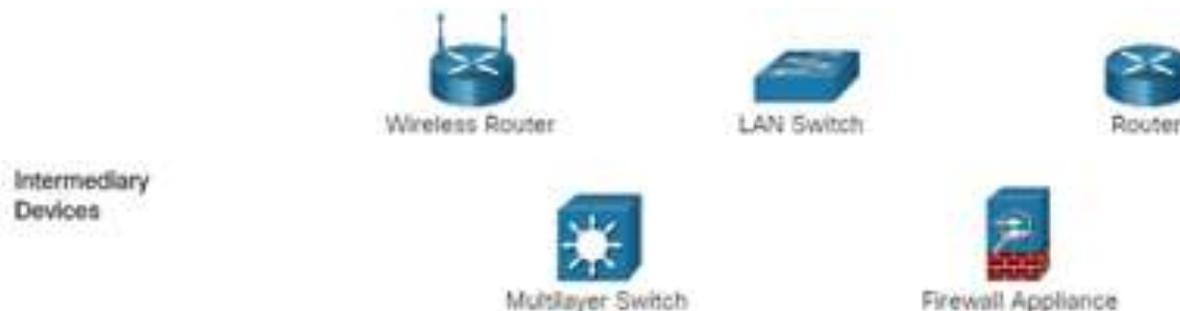
- An end device is where a message originates from or where it is received.
- Data originates with an end device, flows through the network, and arrives at an end device



Network Components

Intermediary Network Devices

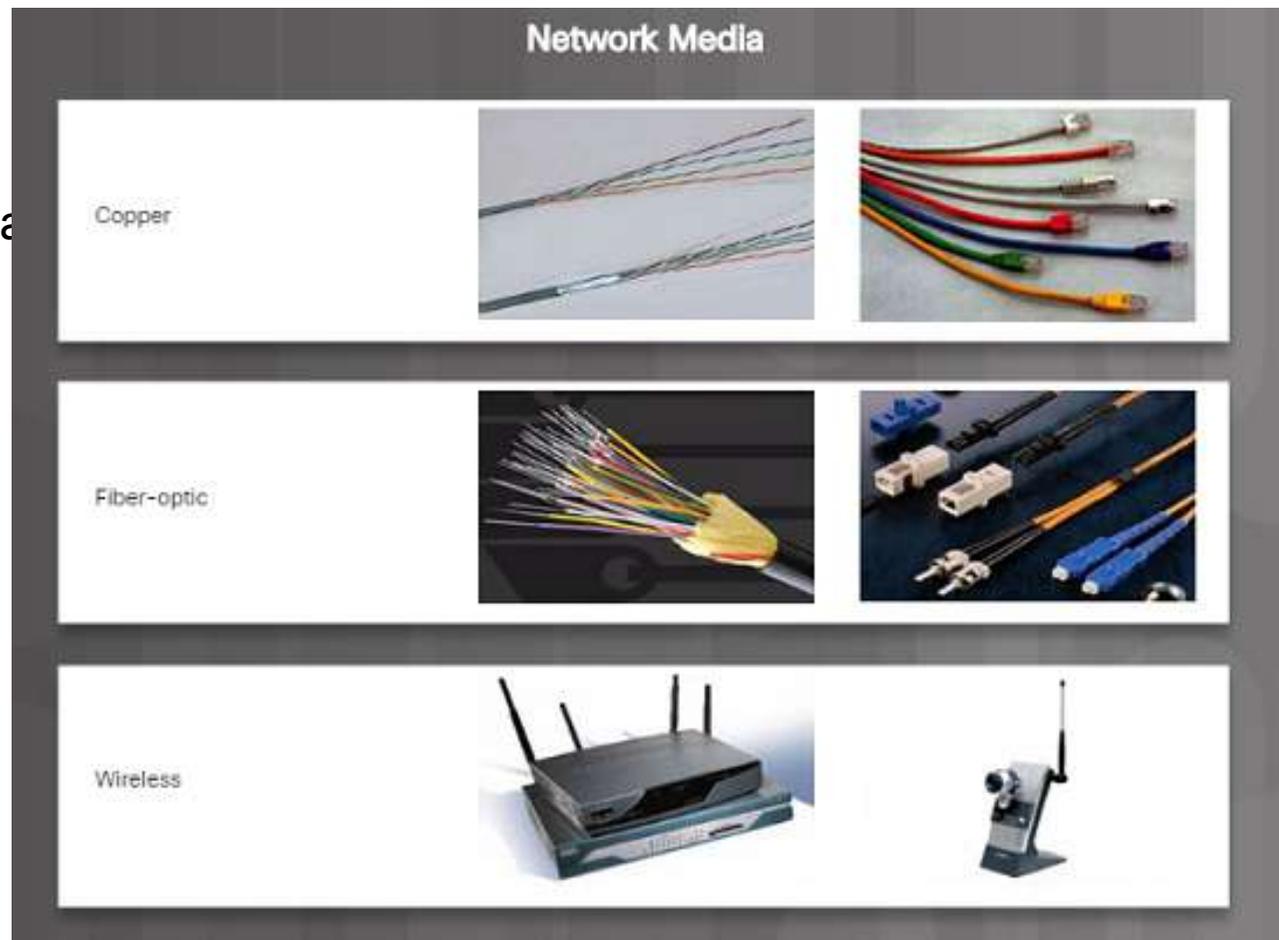
- An intermediary device interconnects end devices in a network. Examples include: switches, wireless access points, routers, and firewalls.
- The management of data as it flows through a network is also the role of an intermediary device including:
 - **Regenerate** and **retransmit** data signals.
 - Maintain information about what pathways exist through the network and internetwork.
 - Notify other devices of errors and communication failures.



Network Components

Network Media

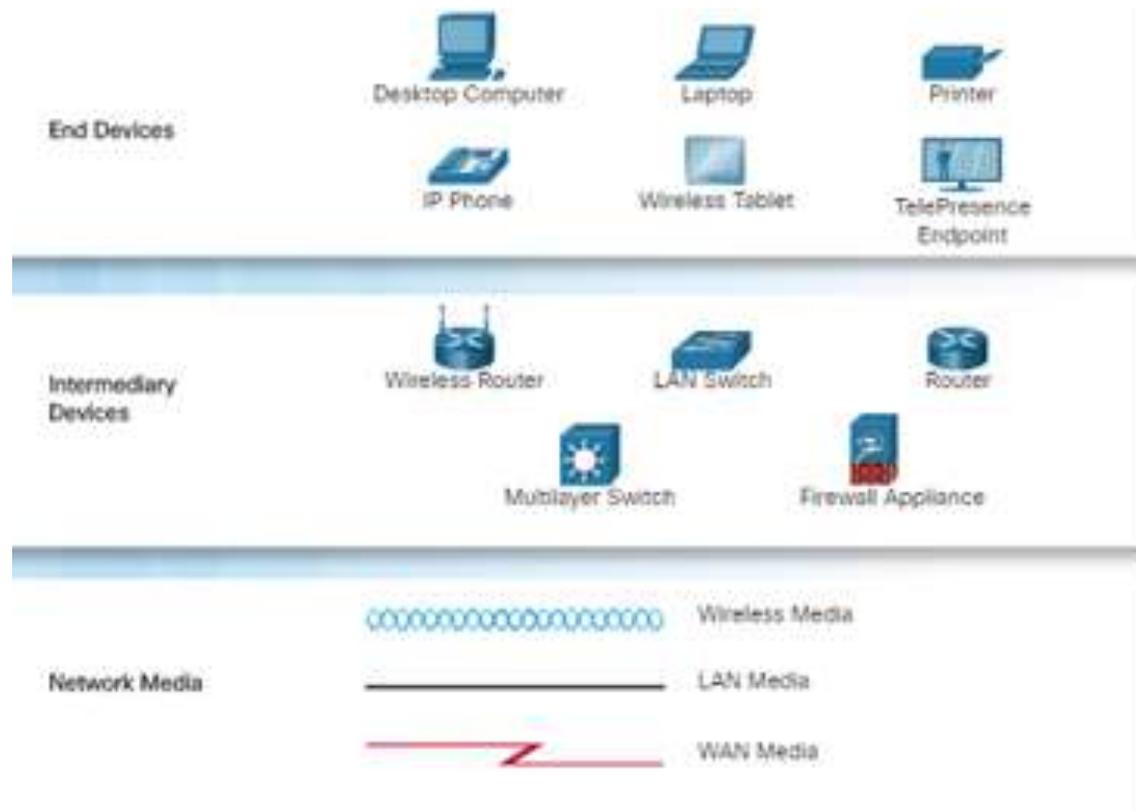
- Communication across a network is carried through a medium which allows a message to travel from source to destination.
- Networks typically use three types of media:
 - Metallic wires within cables, such as copper
 - Glass, such as fiber optic cables
 - Wireless transmission



Network Components

Network Representations

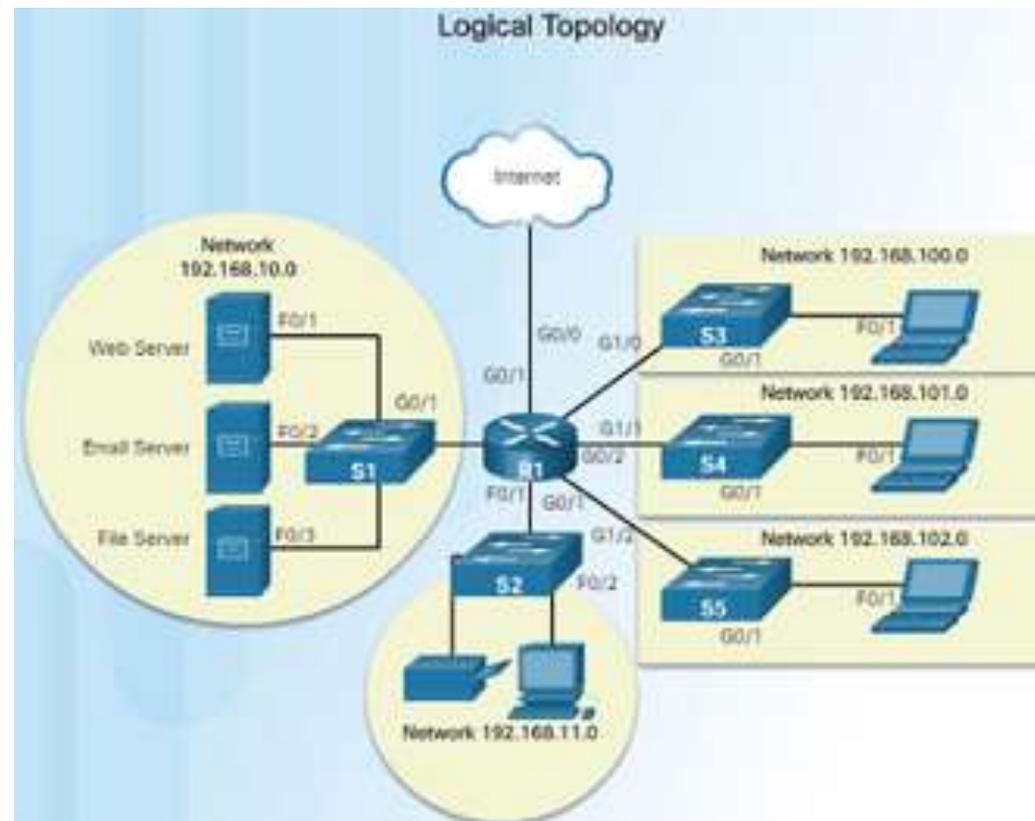
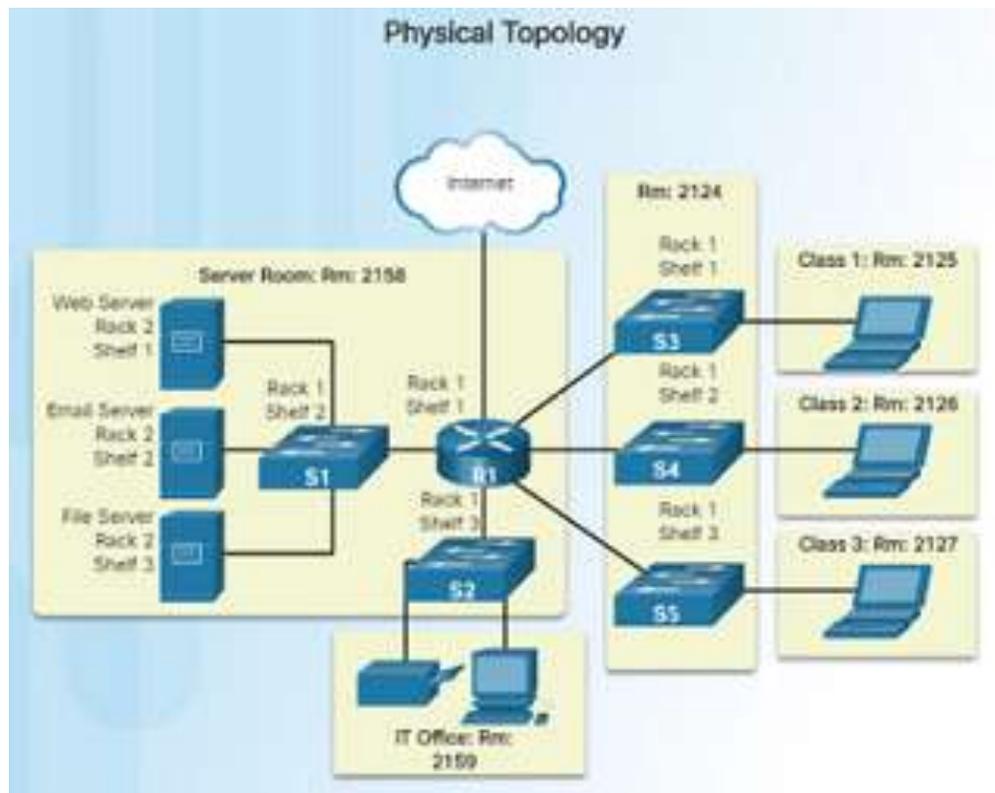
- Network diagrams, often called topology diagrams, use symbols to represent devices within the network.
- In addition to the device representations on the right, it is important to remember and understand the following terms:
 - Network Interface Card (NIC)
 - Physical Port
 - Interface



Network Components

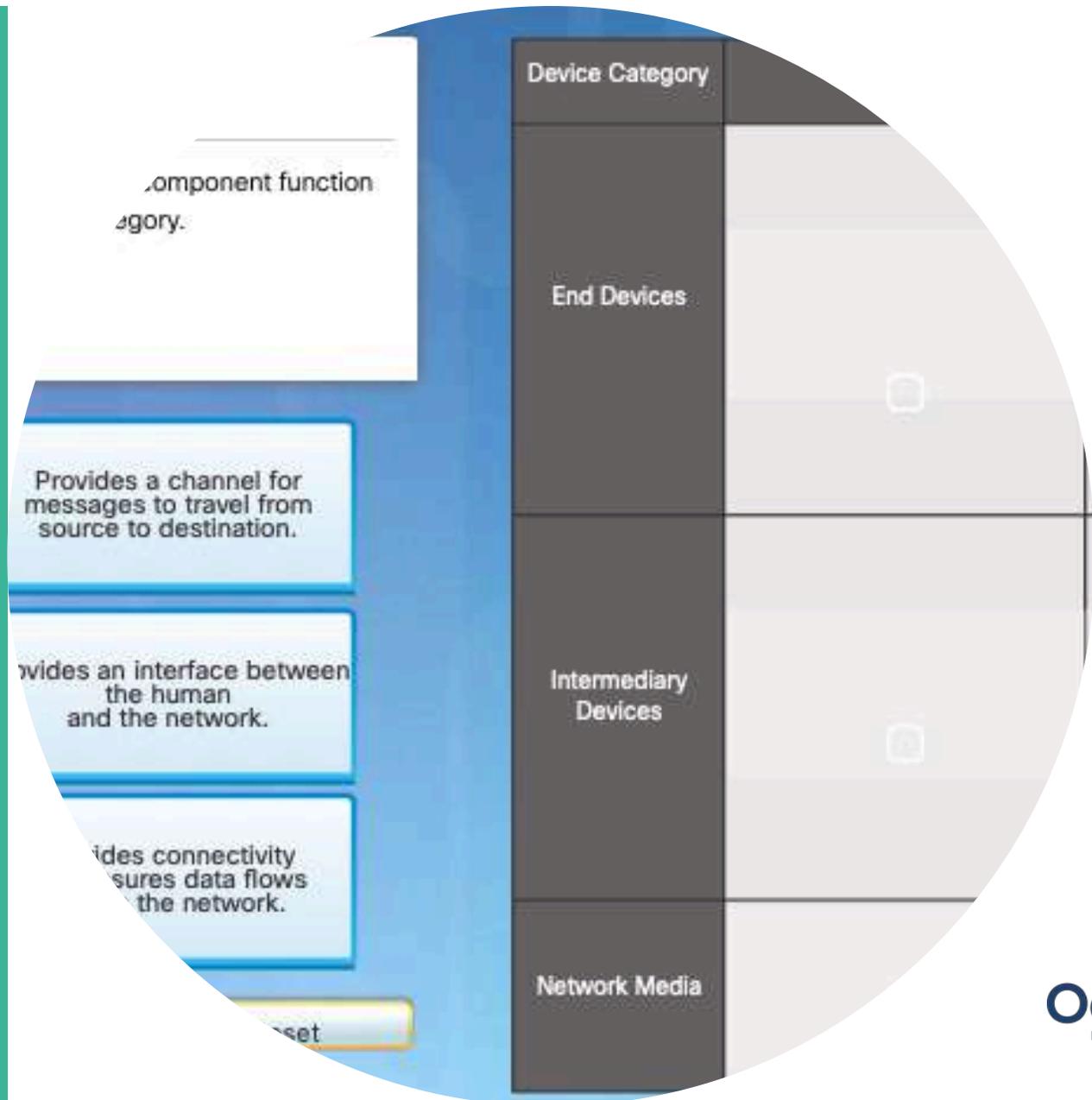
Topology Diagrams

- Note the key differences between the two topology diagrams (physical location of devices vs. ports and network addressing schemes)



Hands-on

Activity - Network Component Representations and Functions

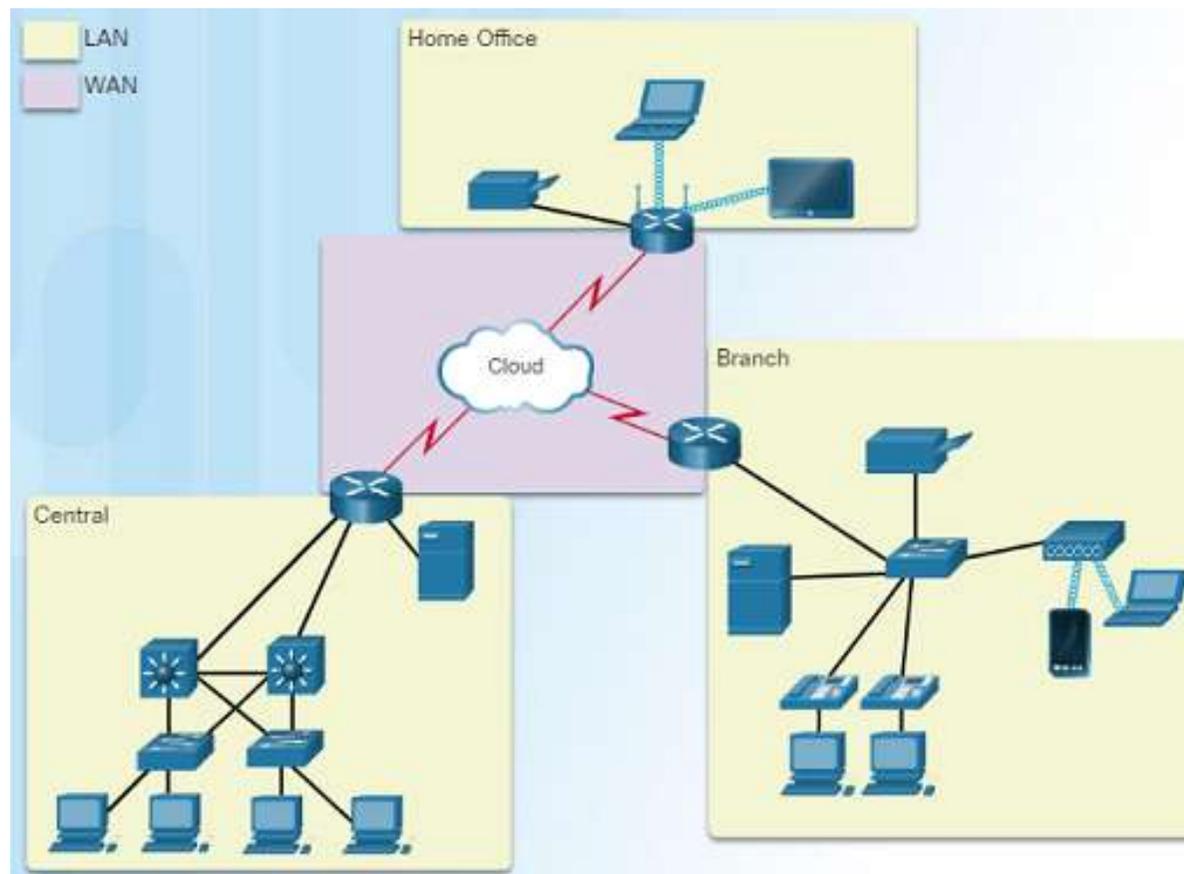


LANs and WANs

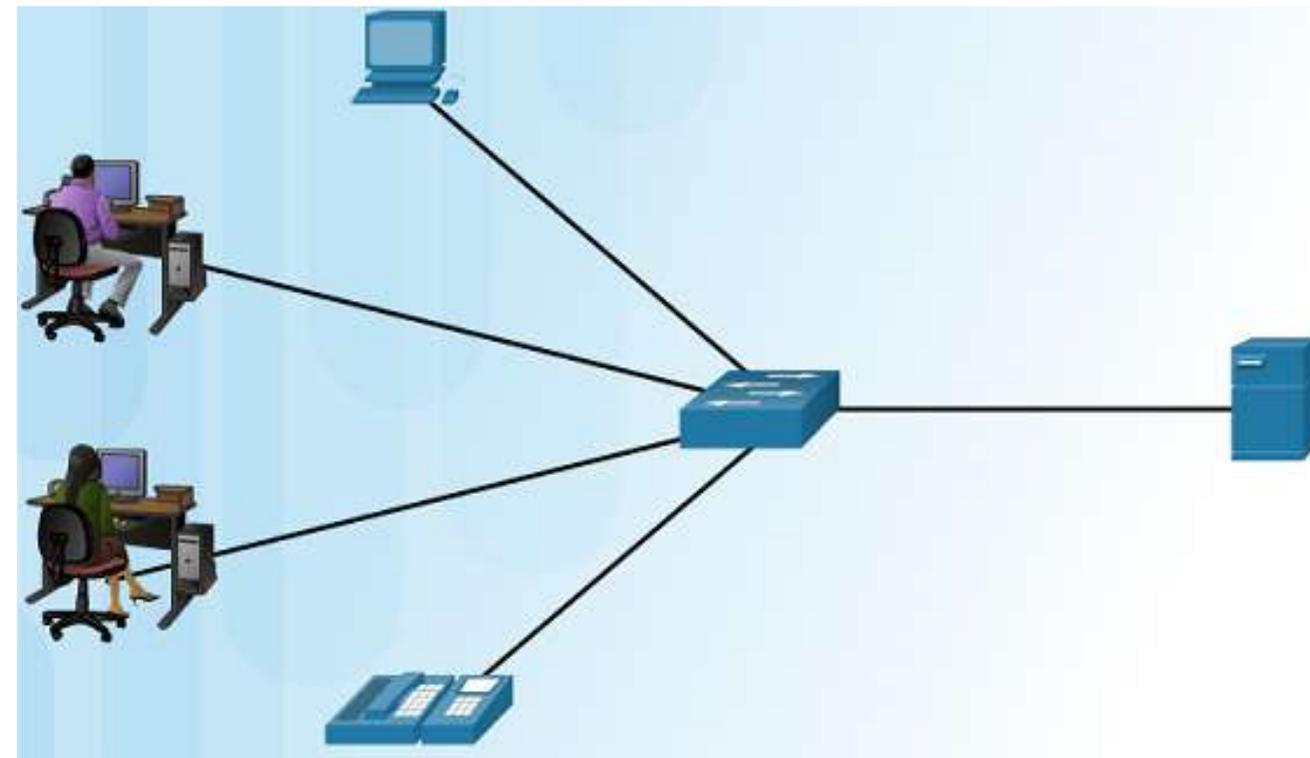
Types of Networks

Two most common types of networks:

- Local Area Network (LAN) – spans a small geographic area owned or operated by an individual or IT department.
- Wide Area Network (WAN) – spans a large geographic area typically involving a telecommunications service provider.
- Other types of networks:
 - Metropolitan Area Network (MAN)
 - Wireless LAN (WLAN)
 - Storage Area Network (SAN)

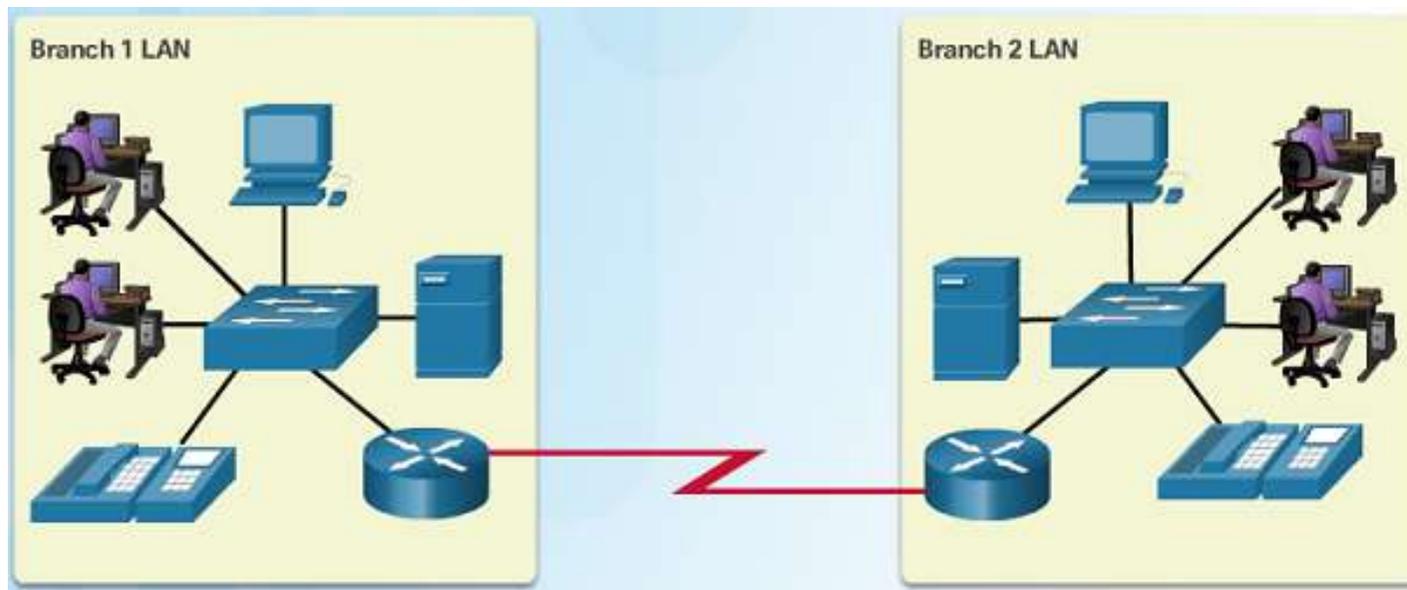


Local Area Networks



- Three characteristics of LANs:
 - Spans a **small geographic area** such as a home, school, office building, or campus.
 - Usually **administered by a single organization** or individual.
 - Provides **high speed bandwidth** to end and intermediary devices within the network.

Wide Area Networks



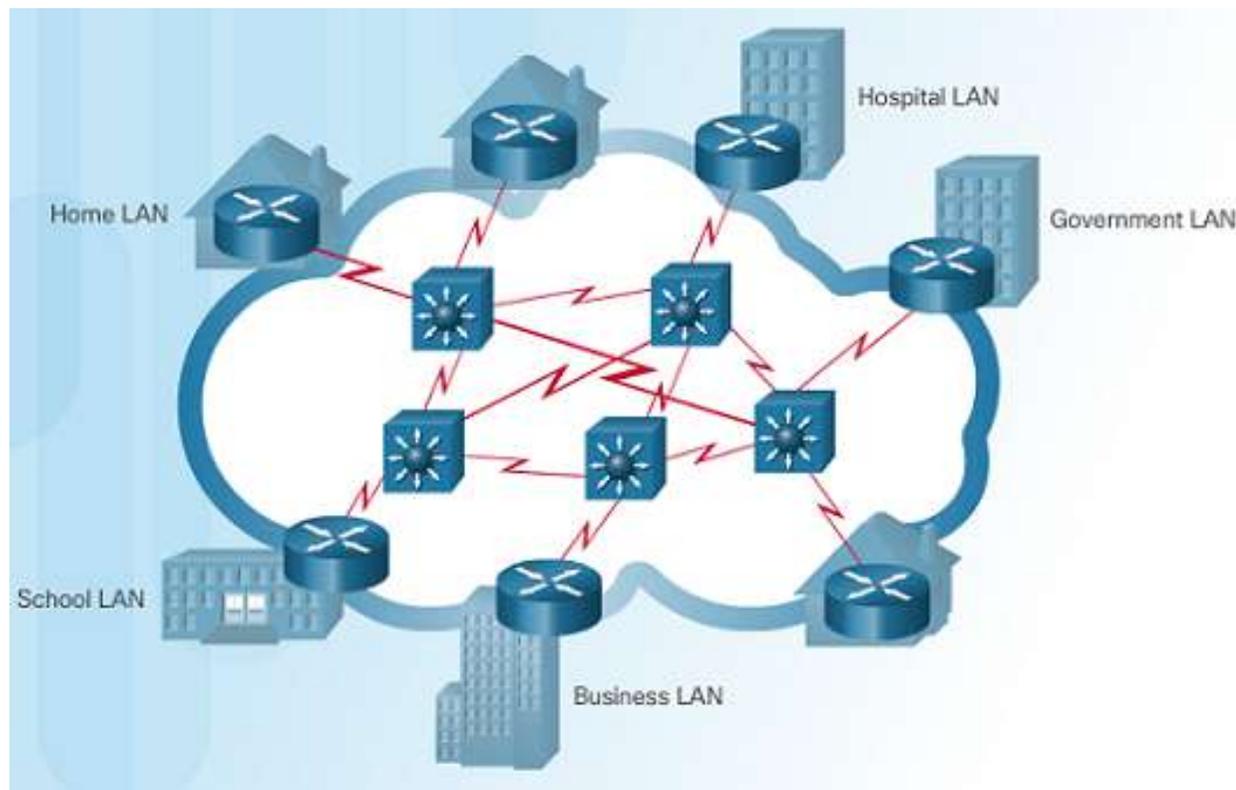
■ Three characteristics of WANs:

- WANs interconnect LANs over **wide geographical areas** such as between cities, states, or countries.
- Usually **administered by multiple service providers**.
- WANs typically provide **slower speed links** between LANs.

The Internet, Intranets, and Extranets

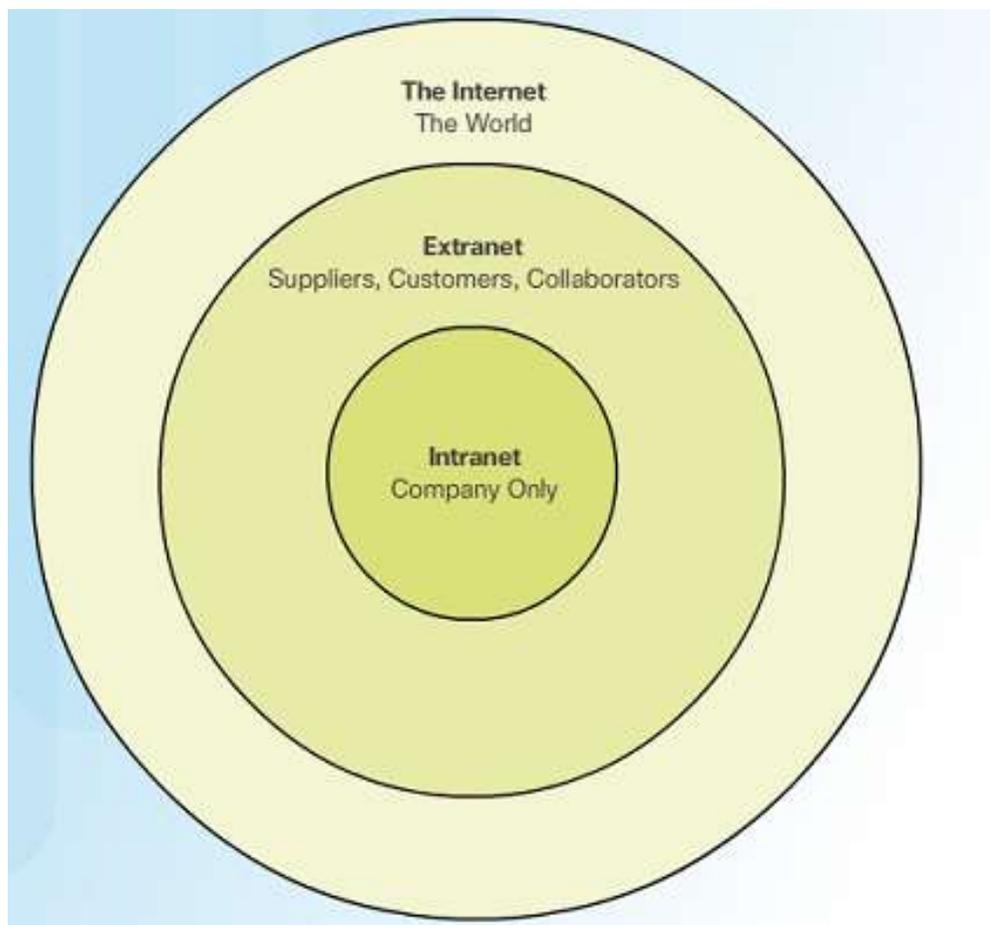
The Internet

- The Internet is a worldwide collection of interconnected LANs and WANs.
- LANs are connected to each other using WANs.
- WANs are then connected to each other using copper wires, fiber optic cables, and wireless transmissions.
- The Internet is not owned by any individual or group, however, the following groups were developed to help maintain structure:
 - IETF
 - ICANN
 - IAB



The Internet, Intranets, and Extranets

Intranets and Extranets



- Unlike the Internet, an intranet is a private collection of LANs and WANs internal to an organization that is meant to be accessible only to the organizations members or others with authorization.
- An organization might use an extranet to provide secure access to their network for individuals who work for a different organization that need access to their data on their network.

Internet Connections

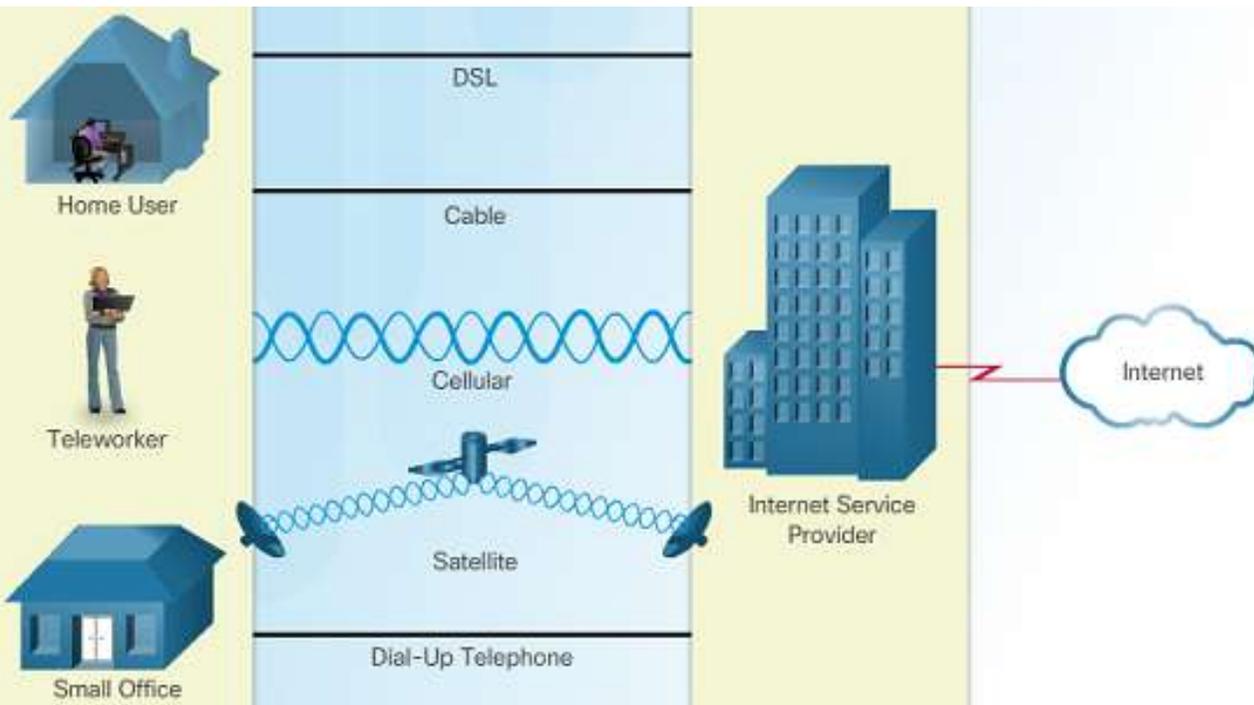
Internet Access Technologies



- There are many ways to connect users and organizations to the Internet:
 - Popular services for home users and small offices include broadband cable, broadband digital subscriber line (DSL), wireless WANs, and mobile services.
 - Organizations need faster connections to support IP phones, video conferencing and data center storage.
 - Business-class interconnections are usually provided by service providers (SP) and may include: business DSL, leased lines, and Metro Ethernet.

Internet Connections

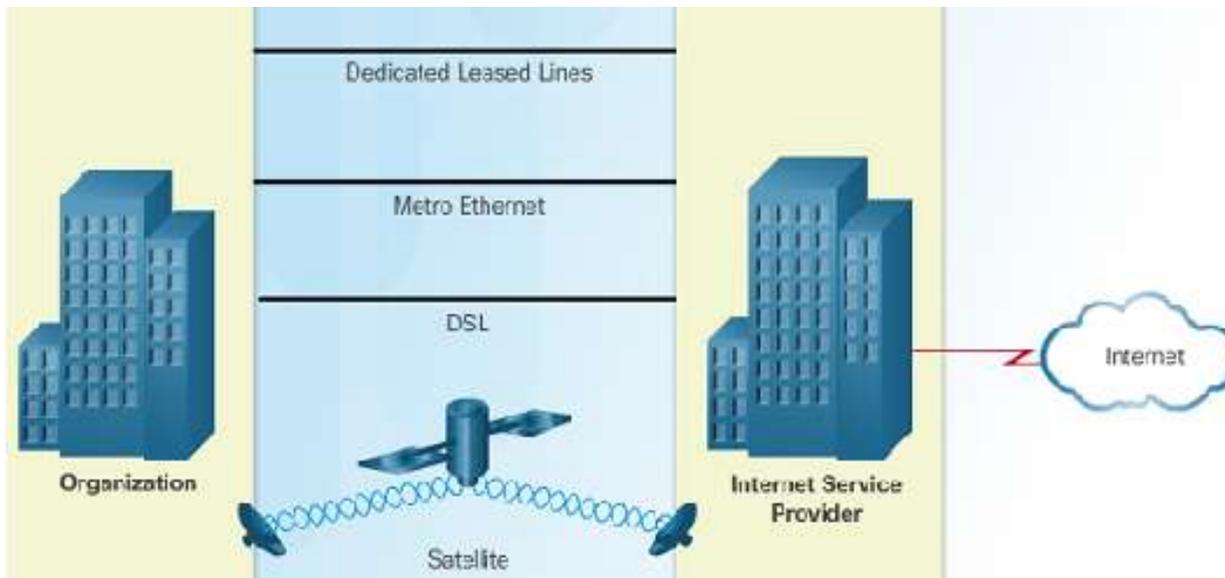
Home and Small Office Internet Connections



- **Cable** – high bandwidth, always on, Internet connection offered by cable television service providers.
- **DSL** – high bandwidth, always on, Internet connection that runs over a telephone line.
- **Cellular** – uses a cell phone network to connect to the Internet; only available where you can get a cellular signal.
- **Satellite** – major benefit to rural areas without Internet Service Providers.
- **Dial-up telephone** – an inexpensive, low bandwidth option using a modem.

Internet Connections

Businesses Internet Connections



- Corporate business connections may require higher bandwidth, dedicated connections, or managed services. Typical connection options for businesses:
 - **Dedicated Leased Line** – reserved circuits within the service provider’s network that connect distant offices with private voice and/or data networking.
 - **Ethernet WAN** – extends LAN access technology into the WAN.
 - **DSL** – Business DSL is available in various formats including Symmetric Digital Subscriber Lines (SDSL).
 - **Satellite** – can provide a connection when a wired solution is not available.

Hands-on

Packet Tracer - Help and Navigation Tips



Packet Tracer - Navigation Tips

Packet Tracer is a fun, take-home, free software program which will help you work towards your Cisco Certified Network Associate (CCNA) certification. Packet Tracer allows you to experiment with network behavior, build network models, and answer "what if" questions. In this activity, you will create a relatively complex network that highlights several of Packet Tracer's features. While doing so, you will learn how to access Help and the tutorial, and you will also learn how to switch between various modes and workspaces.

[Packet Tracer - Help and Navigation Tips Instructions](#)

[Packet Tracer - Help and Navigation Tips](#)



1.3 The Network as a Platform

1.3 The Network as a Platform

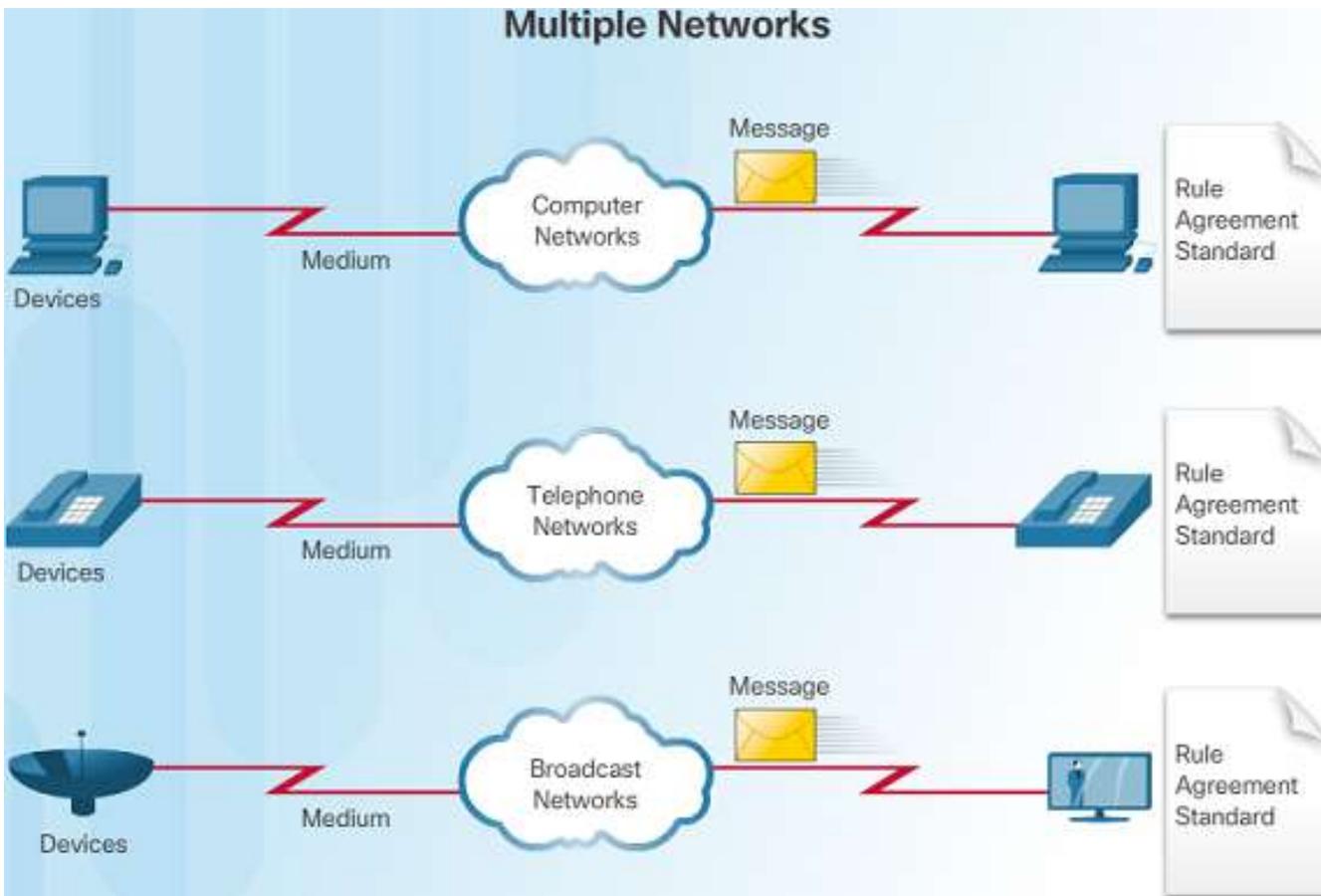
- Explain the basic characteristics of a network that supports communication in a small to medium-sized business.
- Explain the concept of a converged network.
- Describe the four basic requirements of a reliable network.

1.4 The Changing Network Environment

- Explain trends in networking that will affect the use of networks in small to medium-sized businesses.
- Explain how trends such as BYOD, online collaboration, video, and cloud computing are changing the way we interact.
- Explain how networking technologies are changing the home environment.
- Identify some basic security threats and solutions for both small and large networks.
- Explain why it is important to understand the switching and routing infrastructure of a network.

Converged Networks

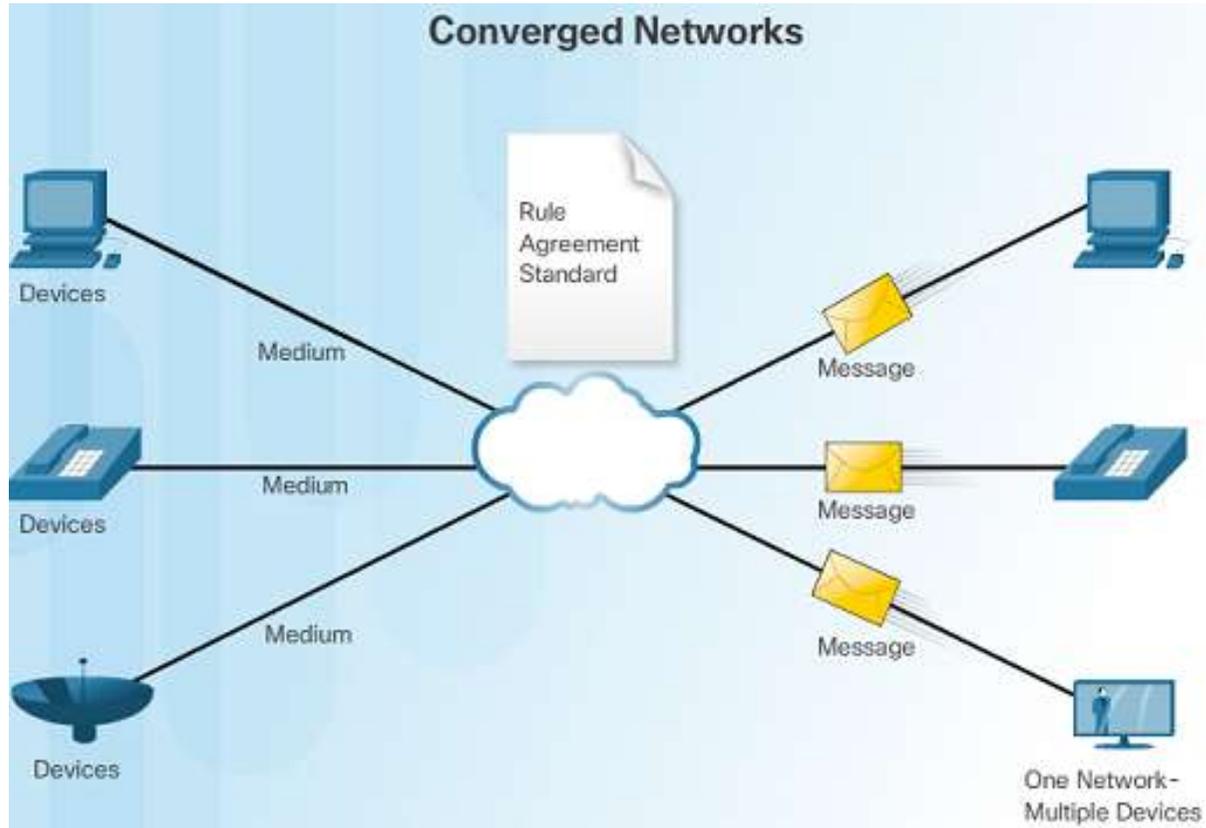
Traditional Separate Networks



- An example of multiple networks might be a school 30 years ago. Some classrooms were cabled for data networks. Those same classrooms were cabled for telephone networks, and also cabled separately for video.
- Each of these networks used different technologies to carry the communication signals using a different set of rules and standards.

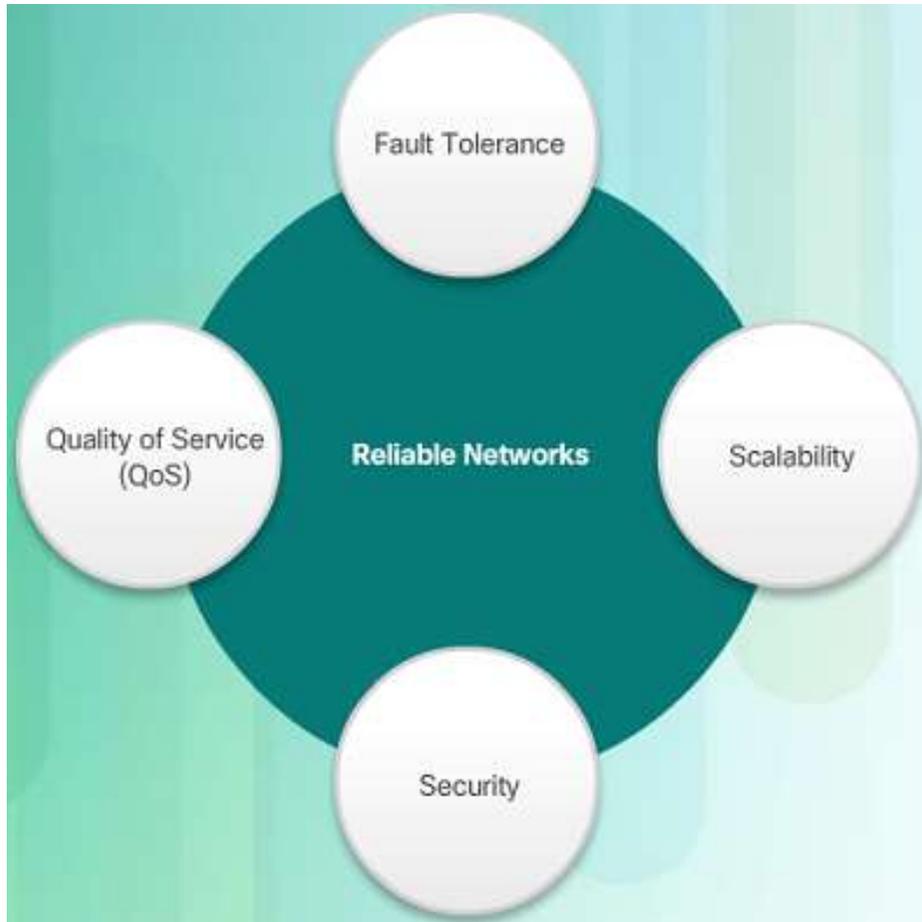
Converged Networks

The Converging Network



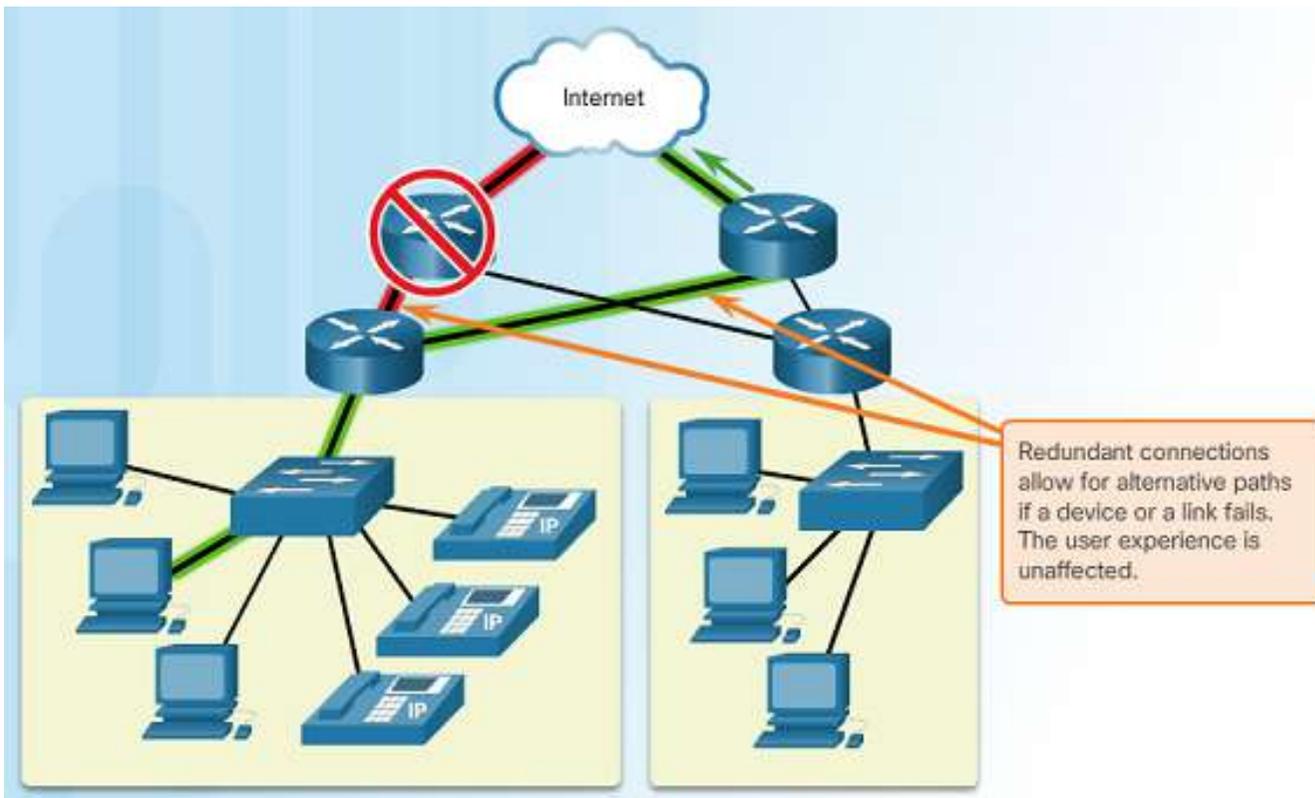
- Converged data networks carry multiple services on one link including data, voice, and video.
- Unlike dedicated networks, converged networks can deliver data, voice, and video between different types of devices over the same network infrastructure.
- The network infrastructure uses the same set of rules and standards.

Reliable Network Network Architecture



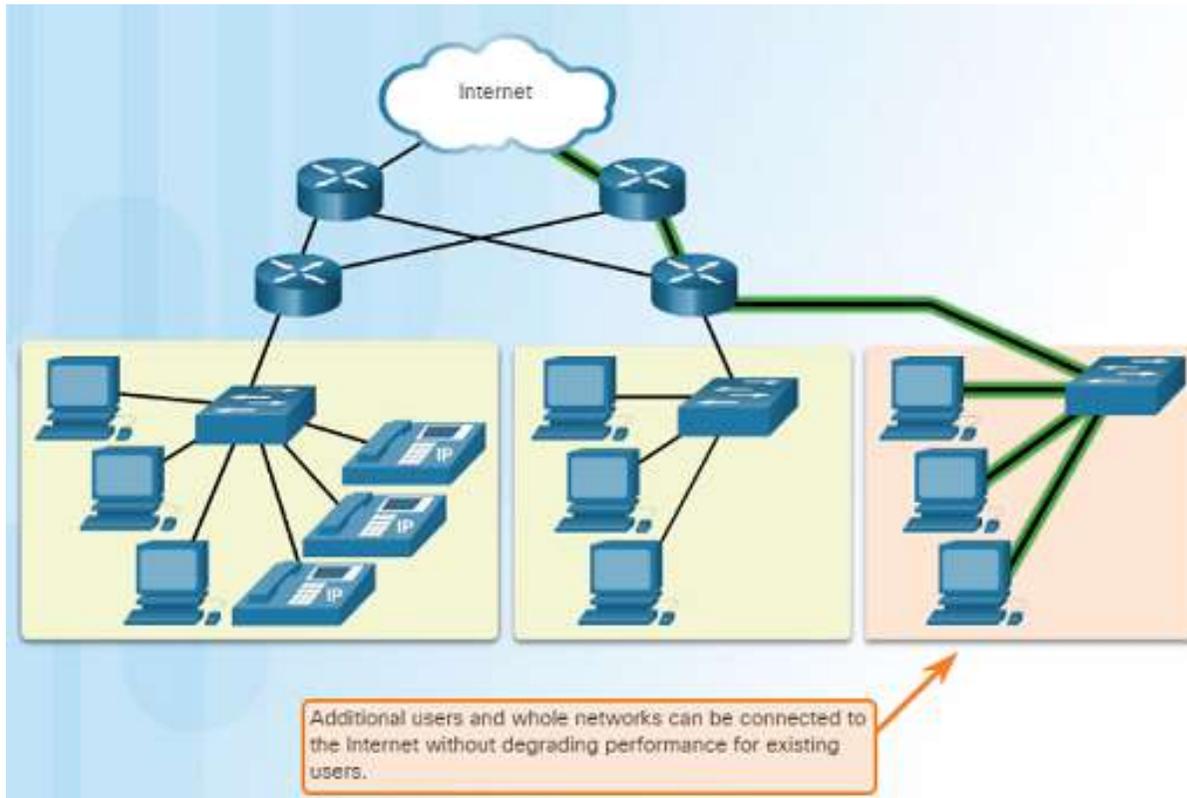
- Network Architecture refers to the technologies that support the infrastructure that moves data across the network.
- There are four basic characteristics that the underlying architectures need to address to meet user expectations:
 - Fault Tolerance
 - Scalability
 - Quality of Service (QoS)
 - Security

Reliable Network Fault Tolerance



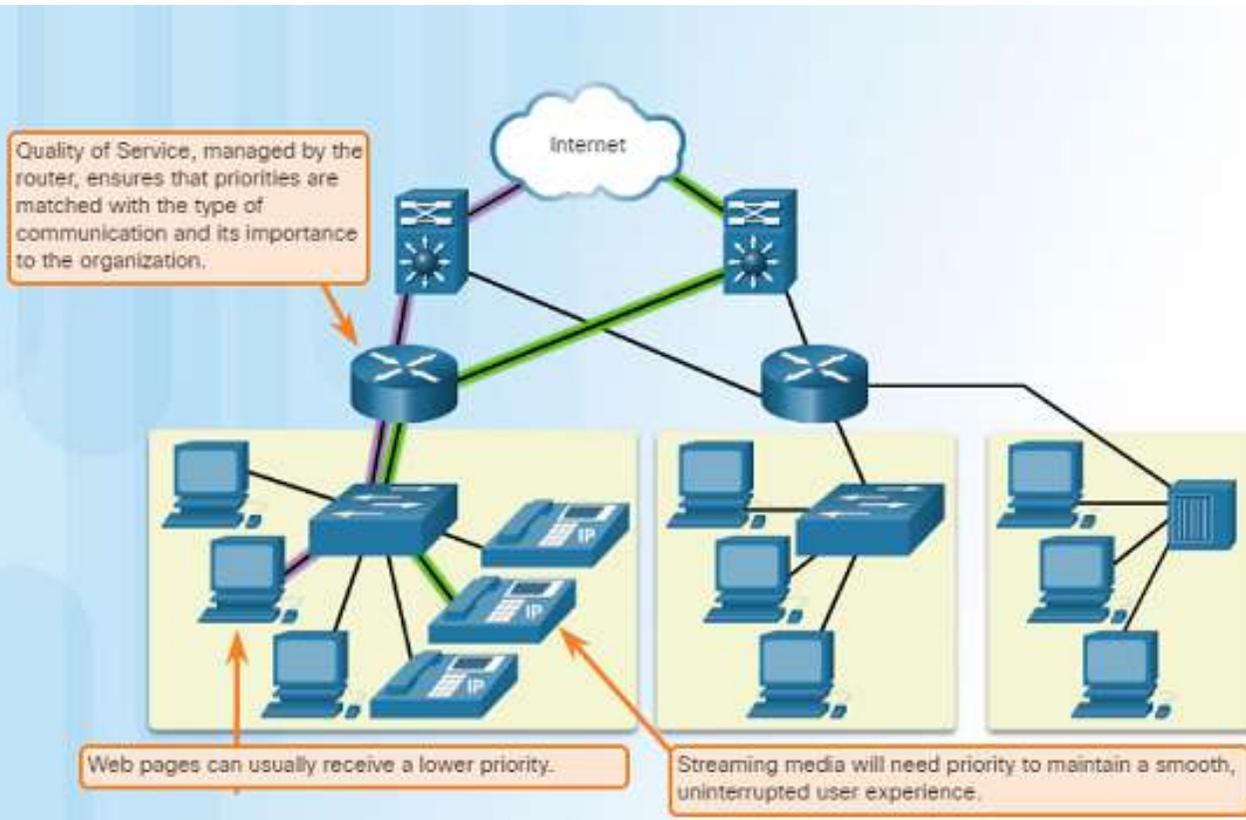
- A fault tolerant network limits the impact of a failure by limiting the number of affected devices.
- Multiple paths are required for fault tolerance.
- Reliable networks provide redundancy by implementing a packet switched network. Packet switching splits traffic into packets that are routed over a network. Each packet could theoretically take a different path to the destination.
- This is not possible with circuit-switched networks which establish dedicated circuits.

Reliable Network Scalability



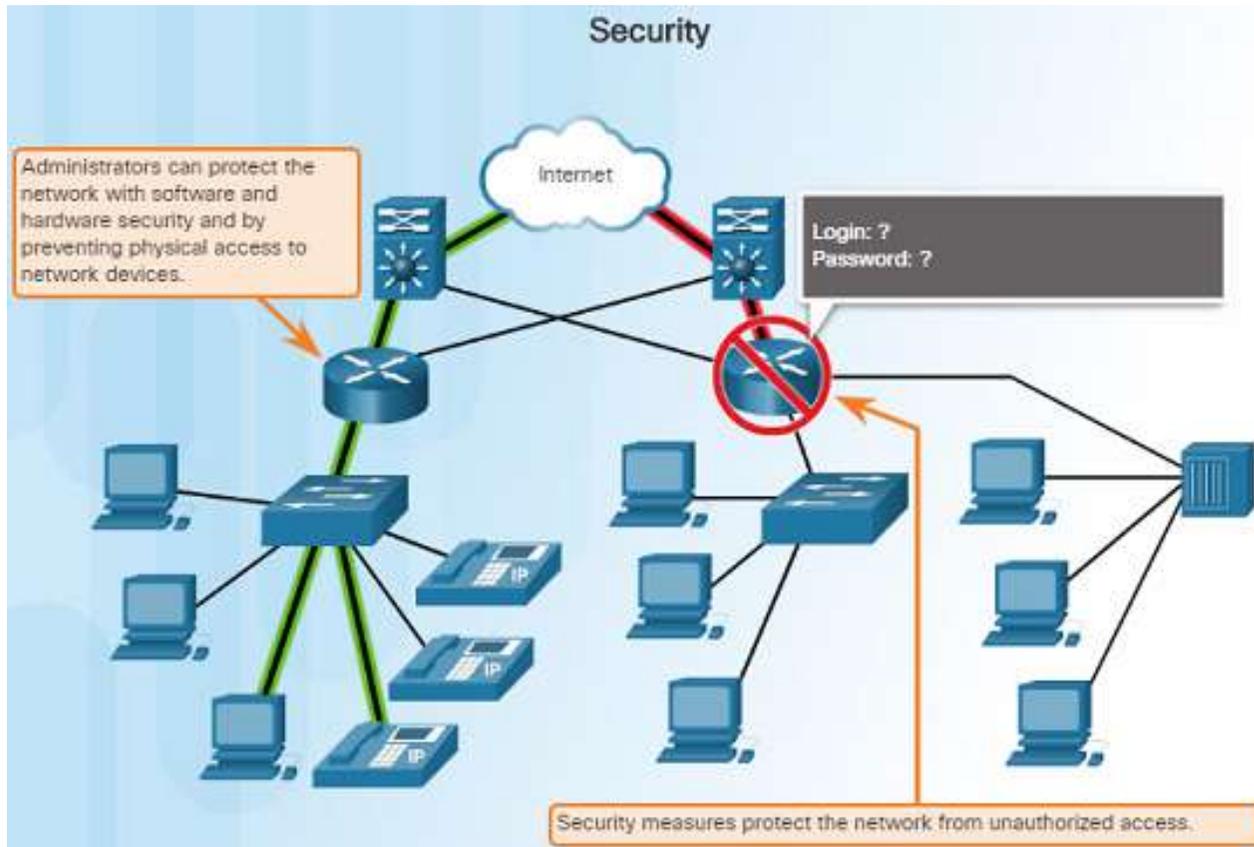
- A scalable network can expand quickly and easily to support new users and applications without impacting the performance of services to existing users.
- Network designers follow accepted standards and protocols in order to make the networks scalable.

Reliable Network Quality of Service



- Voice and live video transmissions require higher expectations for those services being delivered.
- Have you ever watched a live video with constant breaks and pauses? This is caused when there is a higher demand for bandwidth than available – and QoS isn't configured.
- Quality of Service (QoS) is the primary mechanism used to ensure reliable delivery of content for all users.
- With a QoS policy in place, the router can more easily manage the flow of data and voice traffic.

Reliable Network Security



- There are two main types of network security that must be addressed:
 - Network infrastructure security
 - Physical security of network devices
 - Preventing unauthorized access to the management software on those devices
 - Information Security
 - Protection of the information or data transmitted over the network
- Three goals of network security:
 - **Confidentiality** – only intended recipients can read the data
 - **Integrity** – assurance that the data has not be altered with during transmission
 - **Availability** – assurance of timely and reliable access to data for authorized users

Hands-on

Activity - Reliable Networks

Network Architecture Requirements	
	Fault Tolerance
Networks should always be available.	
Priority queues are implemented when demand for network bandwidth exceeds supply.	
Business and personal network equipment must be protected.	
Developing a plan for priority queuing is a strategy for quality delivery of information.	
Business and personal data must be protected.	
Networks can grow or expand with minimal impact on performance.	
Information can travel through more than one route for delivery from a source.	
Network standards allow hardware and software vendors to produce product improvements and services.	



1.4 The Changing Network Environment

1.3 The Network as a Platform

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Network Trends

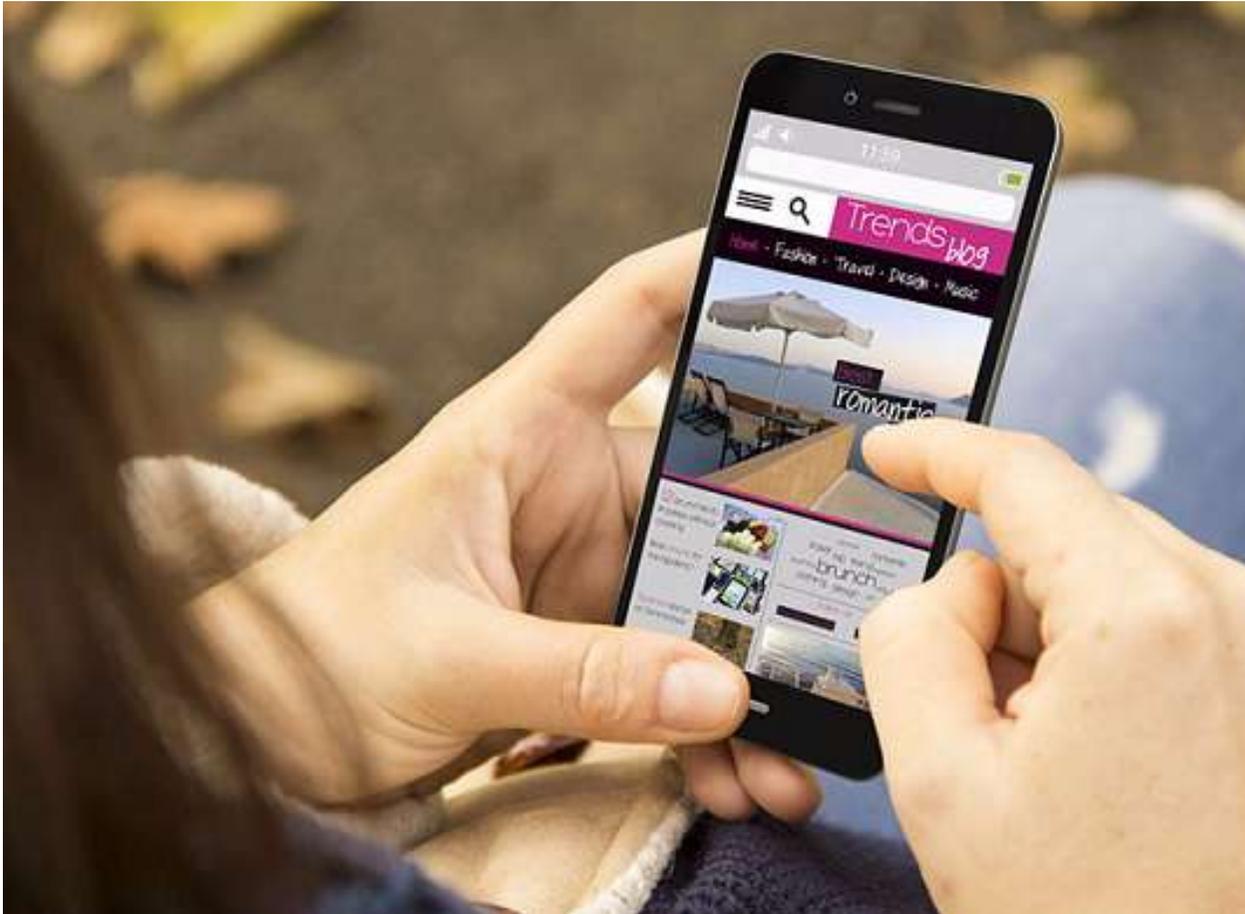
New Trends



- The role of the network must adjust and continually transform in order to be able to keep up with new technologies and end user devices as they constantly come to the market.
- Several new networking trends that effect organizations and consumers:
 - Bring Your Own Device (BYOD)
 - Online collaboration
 - Video communications
 - Cloud computing

Network Trends

Bring Your Own Device



- Bring Your Own Device (BYOD) is a major global trend that allows users to use their own devices giving them more opportunities and greater flexibility.
- BYOD allows end users to have the freedom to use personal tools to access information and communicate using their:
 - Laptops
 - Netbooks
 - Tablets
 - Smartphones
 - E-readers

Network Trends

Online Collaboration



- Individuals want to collaborate and work with others over the network on joint projects.
- Collaboration tools including Cisco WebEx (shown in the figure) gives users a way to instantly connect, interact and achieve their objectives.
- Collaboration is a very high priority for businesses and in education.

Network Trends

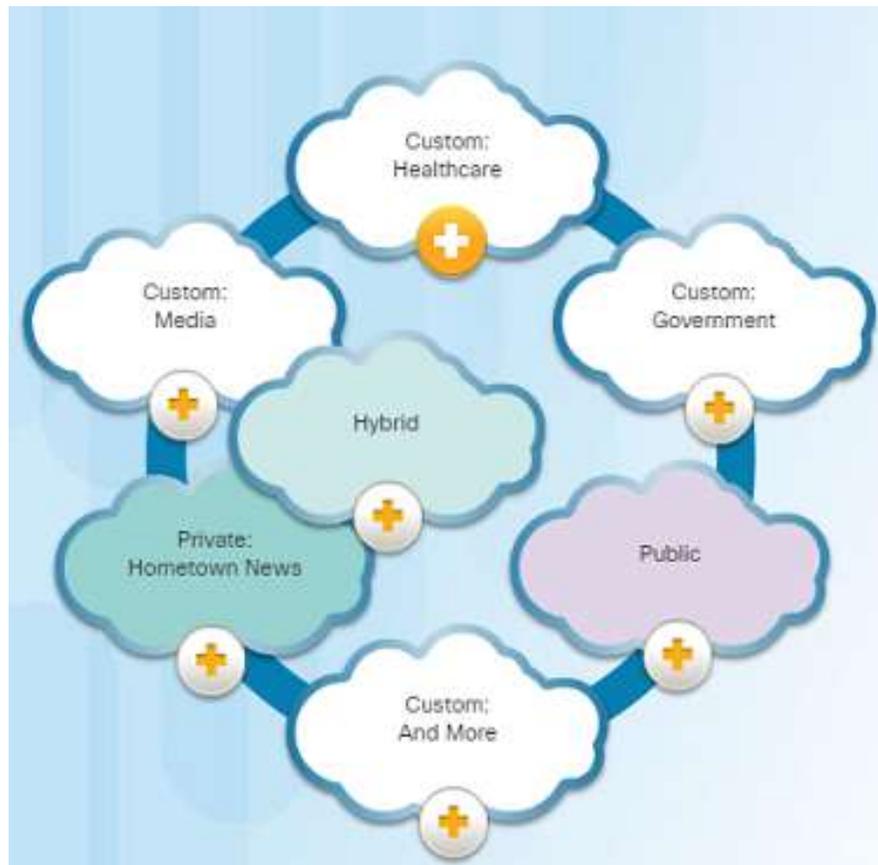
Video Communication

- Cisco TelePresence powers the new way of working where everyone, everywhere, can be more productive through face to face collaboration.
- Around the world each day, we transform organisations by transforming our customer experiences.



Network Trends

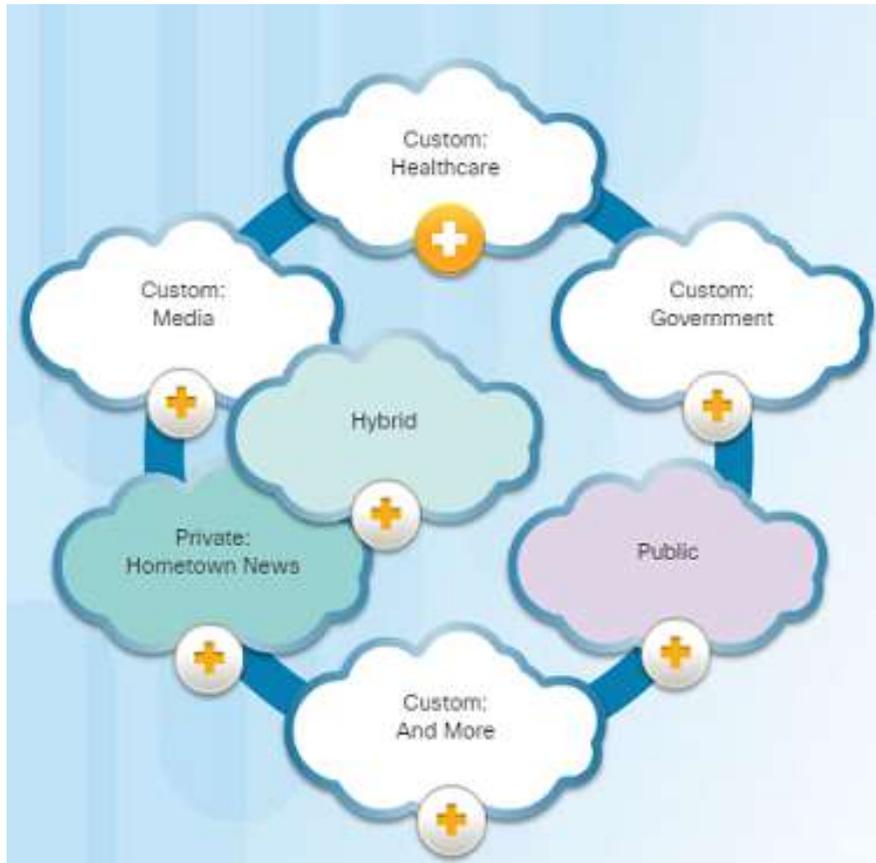
Cloud Computing



- Cloud computing is a global trend that allows us to store personal files or backup our data on servers over the Internet.
- Applications such as word processing and photo editing can also be accessed using the Cloud.
- Cloud computing also allows businesses to extend their capabilities on demand and delivered automatically to any device anywhere in the world.
- Cloud computing is made possible by data centers. Smaller companies that can't afford their own data centers, lease server and storage services from larger data center organizations in the Cloud.

Network Trends

Cloud Computing (Cont.)

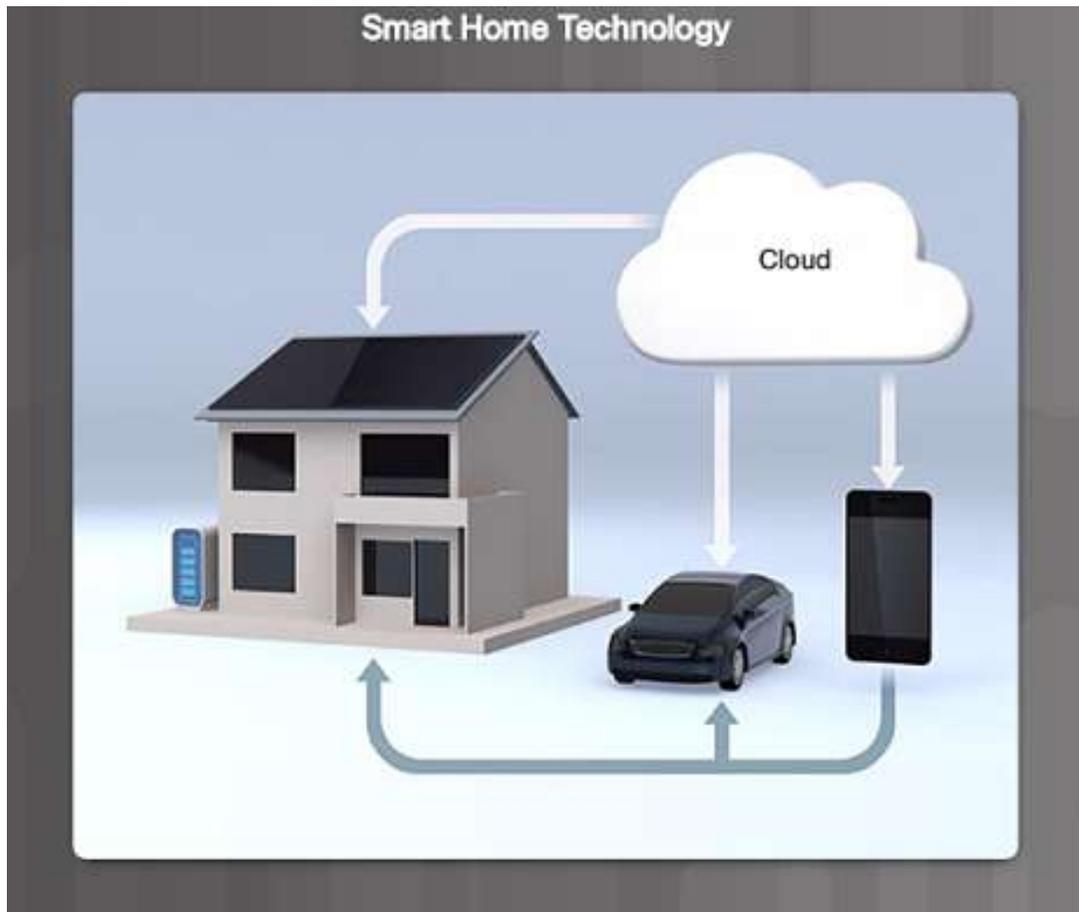


Four types of Clouds:

- Public Clouds
 - Services and applications are made available to the general public through a pay-per-use model or for free.
- Private Clouds
 - Applications and services are intended for a specific organization or entity such as the government.
- Hybrid Clouds
 - Made up of two or more Cloud types – for example, part custom and part public. Each part remains a distinctive object but both are connected using the same architecture.
- Custom Clouds

Network Trends

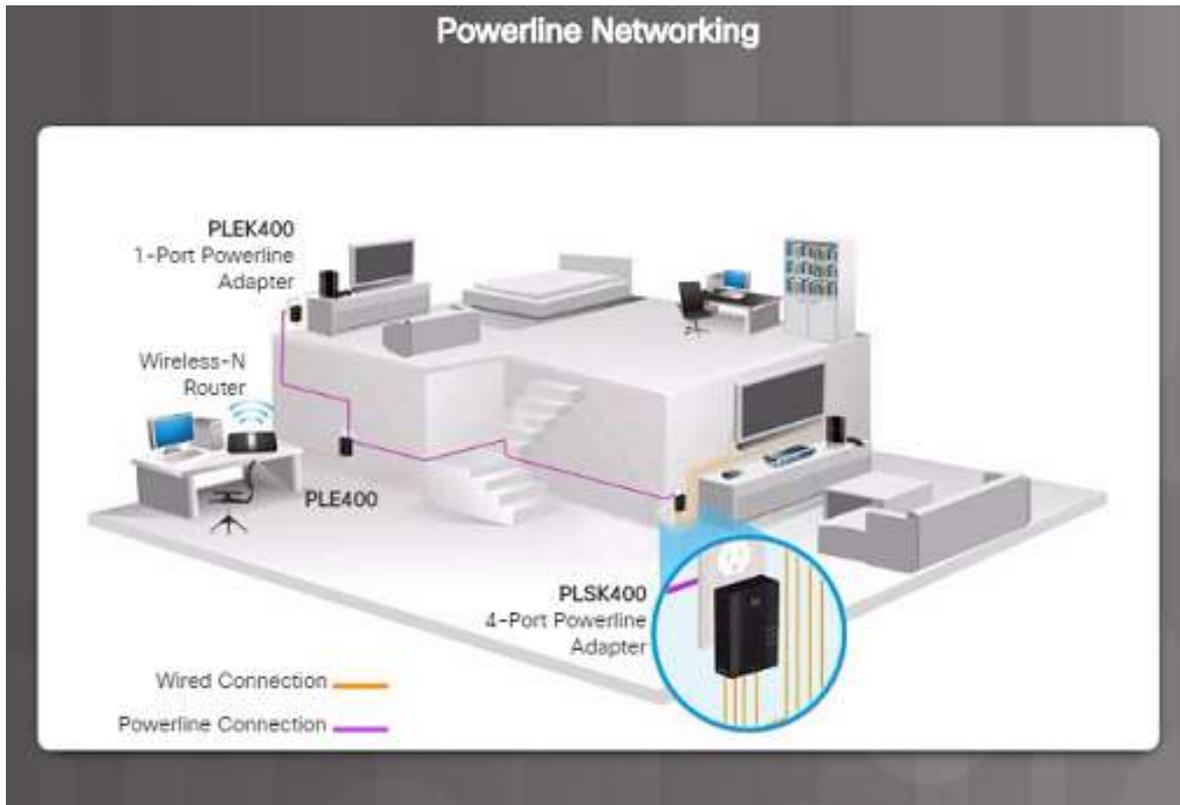
Technology Trends in the Home



- Smart home technology is a growing trend that allows technology to be integrated into every-day appliances which allows them to interconnect with other devices.
- Ovens might know what time to cook a meal for you by communicating with your calendar on what time you are scheduled to be home.

Network Trends

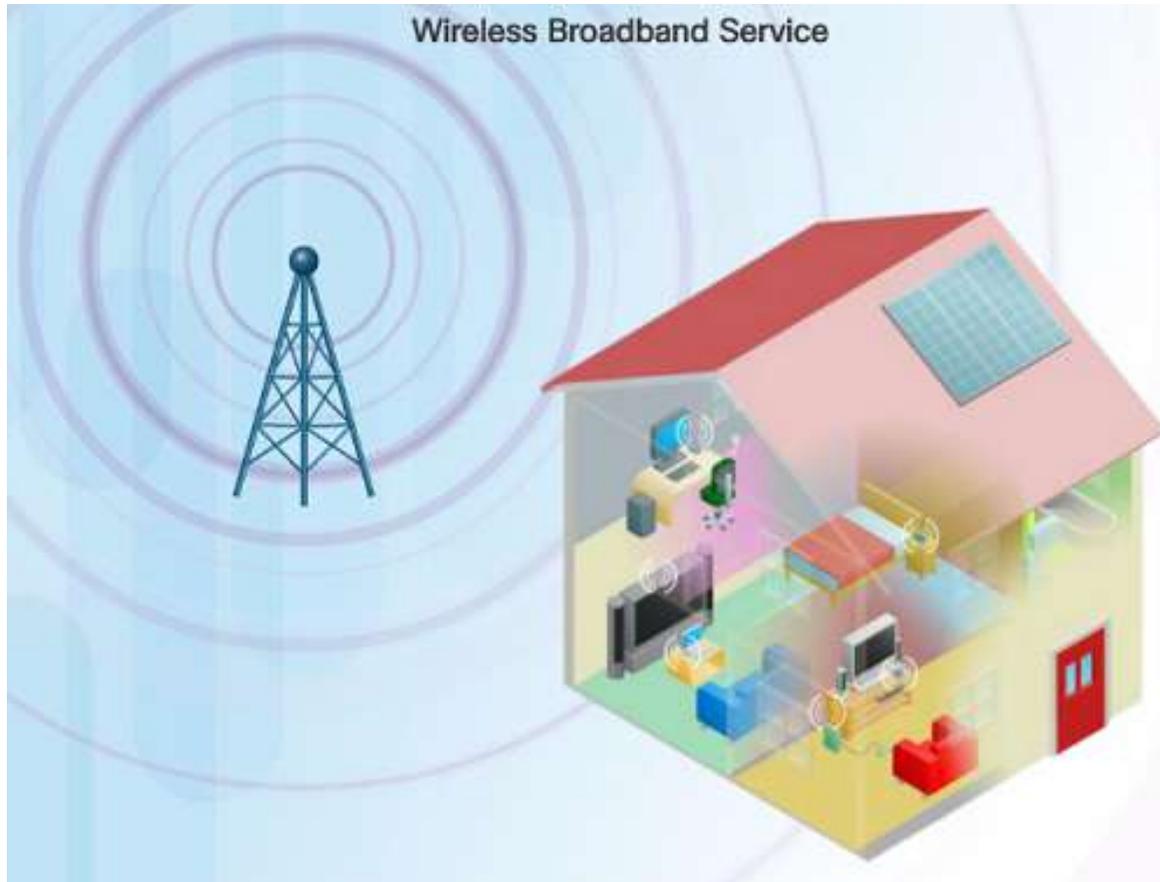
Powerline Networking



- Powerline networking can allow devices to connect to a LAN where data network cables or wireless communications are not a viable option.
- Using a standard powerline adapter, devices can connect to the LAN wherever there is an electrical outlet by sending data on certain frequencies.

Network Trends

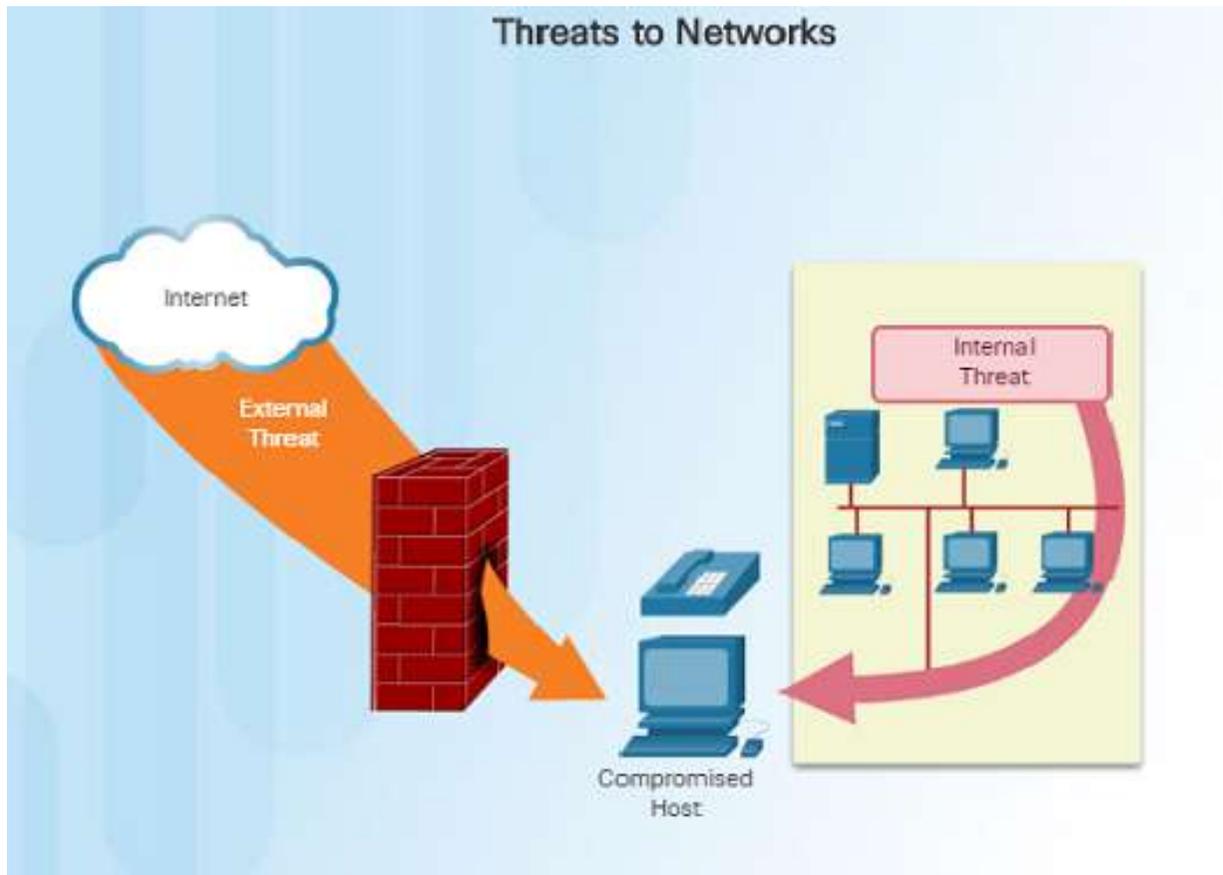
Wireless Broadband



- In addition to DSL and cable, wireless is another option used to connect homes and small businesses to the Internet.
- More commonly found in rural environments, a **Wireless Internet Service Provider (WISP)** is an ISP that connects subscribers to designated access points or hotspots.
- **Wireless broadband** is another solution for the home and small businesses.
 - Uses the same cellular technology used by a smart phone.
 - An antenna is installed outside the house providing wireless or wired connectivity for devices in the home.

Network Security

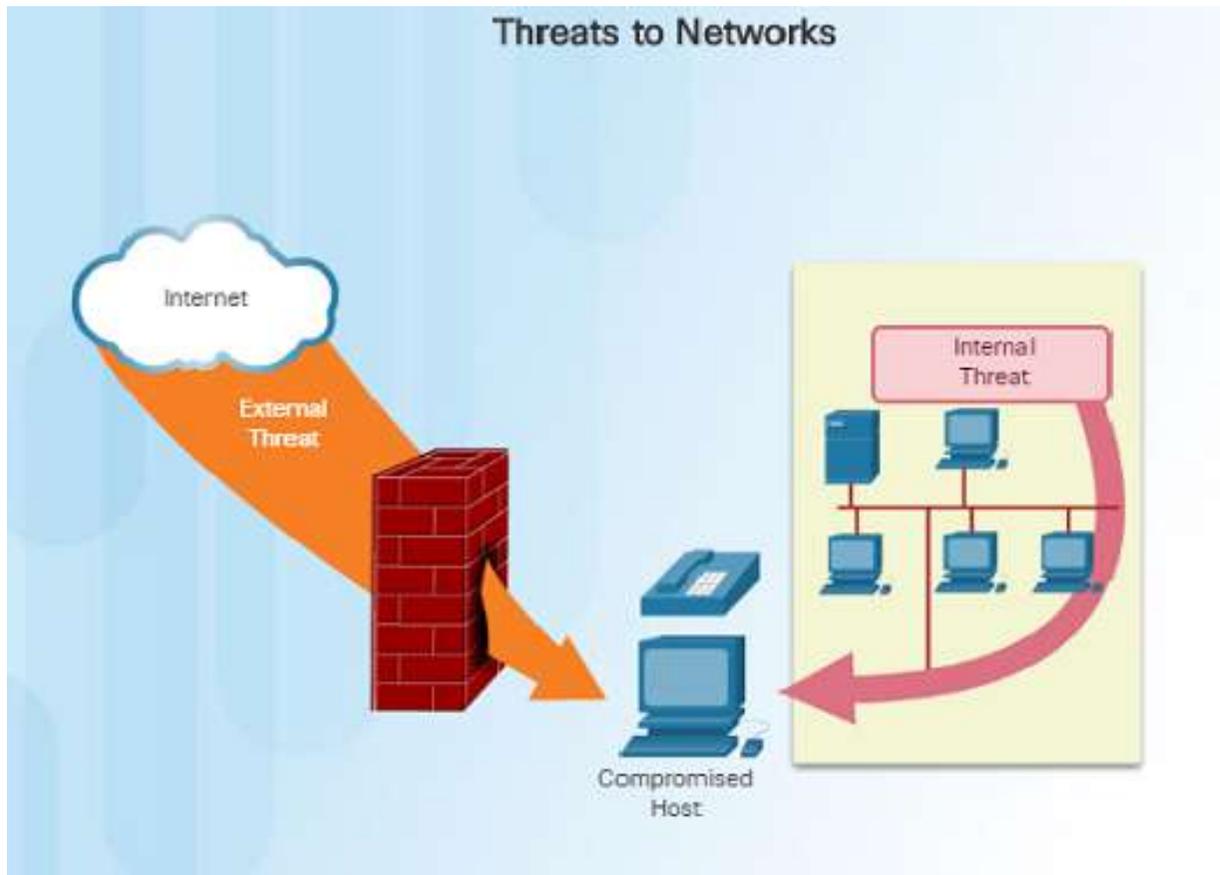
Security Threats



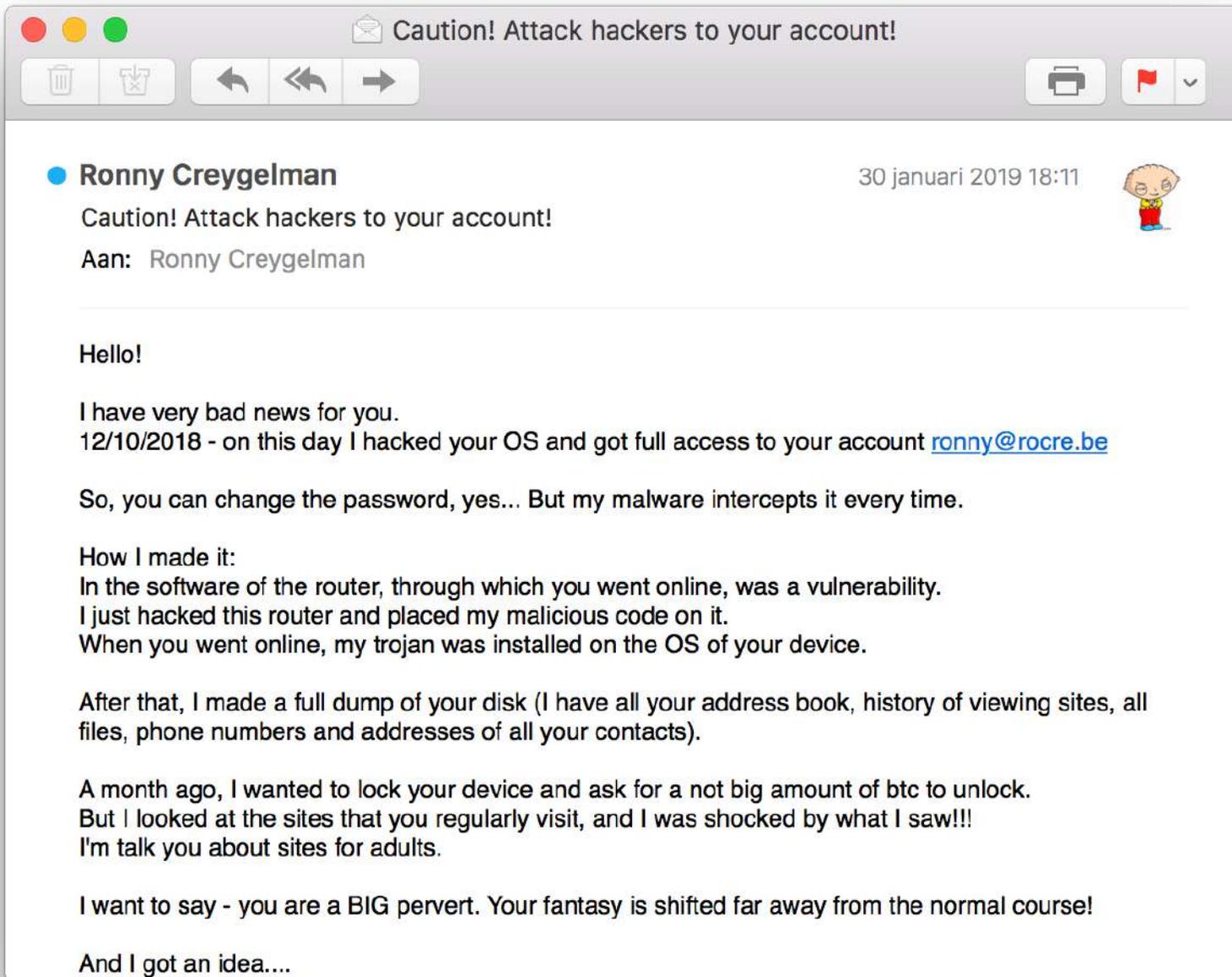
- Network security is an integral part of networking regardless of the size of the network.
- The network security that is implemented must take into account the environment while securing the data, but still allowing for quality of service that is expected of the network.
- Securing a network involves many protocols, technologies, devices, tools, and techniques in order to secure data and mitigate threats.
- Threat vectors might be external or internal.

Network Security

Security Threats (Cont.)



- External threats:
 - Viruses, worms, and Trojan horses
 - Spyware and adware
 - Zero-day attacks, also called zero-hour attacks
 - Hacker attacks
 - Denial of Service attacks
 - Data interception and theft
 - Identify Theft
- Internal threats:
 - Whether intentional or not, many studies show that the internal users of the network cause the most security breaches.
 - With BYOD strategies, corporate data is more vulnerable.



● **Ronny Creygelman**

30 januari 2019 18:11



Caution! Attack hackers to your account!

Aan: Ronny Creygelman

Hello!

I have very bad news for you.

12/10/2018 - on this day I hacked your OS and got full access to your account ronny@rocre.be

So, you can change the password, yes... But my malware intercepts it every time.

How I made it:

In the software of the router, through which you went online, was a vulnerability.

I just hacked this router and placed my malicious code on it.

When you went online, my trojan was installed on the OS of your device.

After that, I made a full dump of your disk (I have all your address book, history of viewing sites, all files, phone numbers and addresses of all your contacts).

A month ago, I wanted to lock your device and ask for a not big amount of btc to unlock.

But I looked at the sites that you regularly visit, and I was shocked by what I saw!!!

I'm talk you about sites for adults.

I want to say - you are a BIG pervert. Your fantasy is shifted far away from the normal course!

And I got an idea....

Pay ONLY in Bitcoins!

My BTC wallet: 145SmyE7DBEQExsnXZobojbQqr5UdgbCHh

You do not know how to use bitcoins?

Enter a query in any search engine: "how to replenish btc wallet".

It's extremely easy

For this payment I give you two days (48 hours).

As soon as this letter is opened, the timer will work.

After payment, my virus and dirty screenshots with your enjoys will be self-destruct automatically.

If I do not receive from you the specified amount, then your device will be locked, and all your contacts will receive a screenshots with your "enjoys".

I hope you understand your situation.

- Do not try to find and destroy my virus! (All your data, files and screenshots is already uploaded to a remote server)
- Do not try to contact me (this is not feasible, I sent you an email from your account)
- Various security services will not help you; formatting a disk or destroying a device will not help, since your data is already on a remote server.

P.S. You are not my single victim. so, I guarantee you that I will not disturb you again after payment!

This is the word of honor hacker

I also ask you to regularly update your antiviruses in the future. This way you will no longer fall into a similar situation.

Do not hold evil! I just do my job.
Have a nice day!

Weergave Postbus Bericht Opmaak Venster Help

- Toon tabbladbalk
- Berichtkenmerken ▶
- Sorteer op ▶
- Groeppeer op conversatie
- Vouw alle conversaties uit
- Vouw alle conversaties samen
- Kopie-adresveld
- Blinde kopie-adresveld ⌘ ⌘ B
- Antwoord aan-adresveld ⌘ ⌘ R
- Bericht** ▶
- Toon verwante berichten

t!

30 januari 2019 18:11 

Alle kopteksten ⌘ ⌘ H
Bronversie ⌘ ⌘ U

Return-Path: <ronny@rocre.be>
Delivered-To: ronny@rocre.be
Received: from mx2.pub.mailpod1-cph3.one.com ([10.27.24.12])
by mailstorage15.cst.mailpod1-cph3.one.com with LMTP id 0EsMCsXaUVxL0QEAKN0kwwg
for <ronny@rocre.be>; Wed, 30 Jan 2019 17:11:33 +0000
X-HalOne-ID: 17206022-24b2-11e9-92bc-248a07b43572
Received: from static-201-163-93-37.alestra.net.mx (unknown [201.163.93.37])
by mx2.pub.mailpod1-cph3.one.com (Halon) with ESMTP
id 17206022-24b2-11e9-92bc-248a07b43572;
Wed, 30 Jan 2019 17:11:32 +0000 (UTC)
Date: 30 Jan 2019 03:46:36 -0700
From: <ronny@rocre.be>
X-Priority: 3
Message-ID: <573212715.201901300411@rocre.be>
To: <ronny@rocre.be>
Subject: Caution! Attack hackers to your account!
MIME-Version: 1.0
Content-Type: text/plain; charset="cp-850"
Content-Transfer-Encoding: 8bit

Hello!

file:///Users/Shared/Blackmail:scam/WHOIS%20IP%20Lookup... REGISTERED USERS: 49,022

neustar // UltraTools Free Domain, DNS, WHOIS and IP Tools

Email Address Login
 Remember me [Forgot your password?](#)

Home Domain Health Report WHOIS+ Monitoring UltraTools Statistics UltraTools Mobile [Create Free Account](#)

[Email](#) [Share](#)

IP Tools

- Decimal IP Calculator
- ASN Information
- CIDR/Netmask
- What's your IP
- IP Geo-location Lookup
- IPWHOIS Lookup**

WHOIS IP Lookup Tool

The IPWHOIS Lookup tool finds contact information for the owner of a specified IP address.

Enter a host name or an IP address:

[Go »](#)

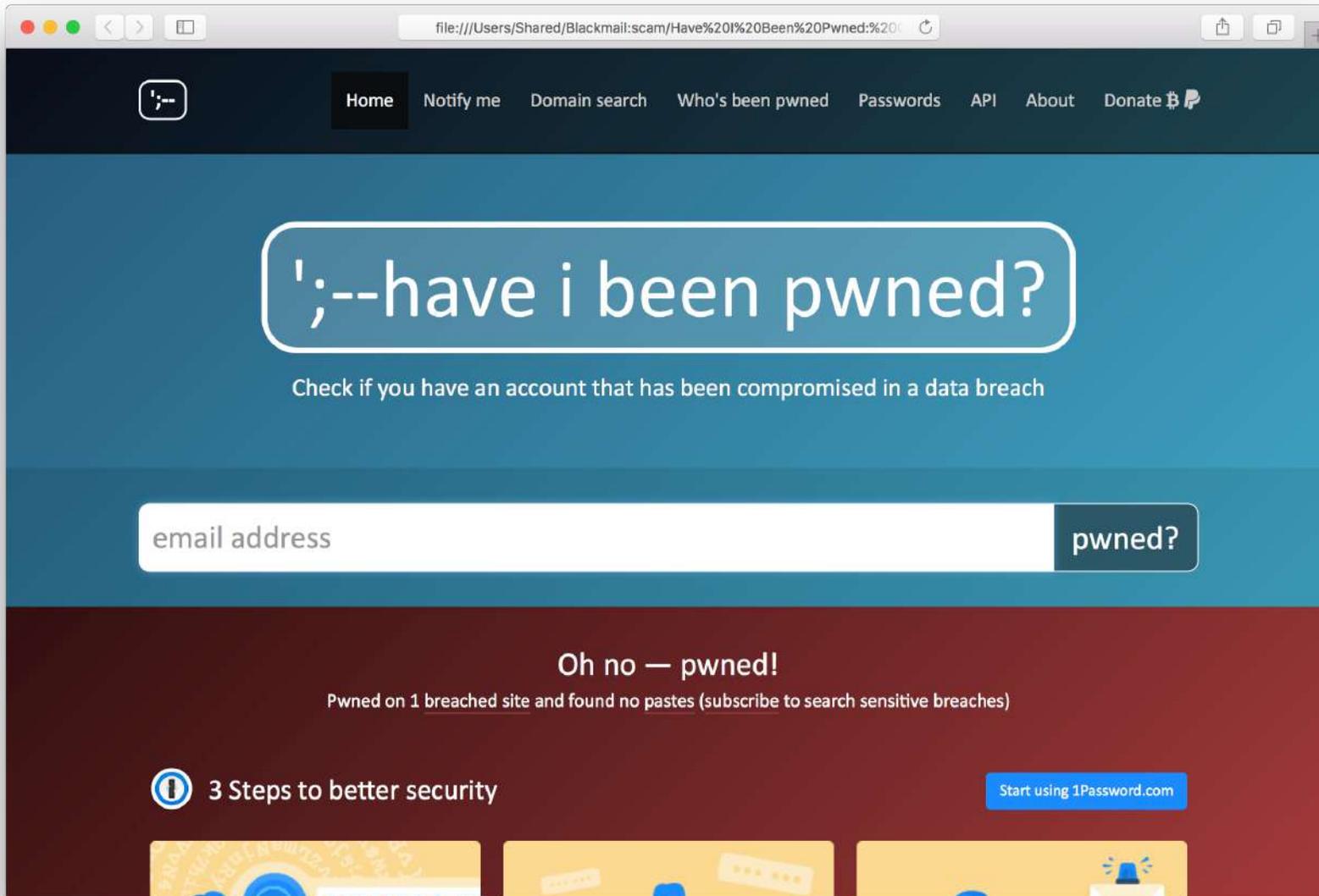
Related Tools: [DNS Traversal](#) [Traceroute](#) [Vector Trace](#) [Ping](#) [WHOIS Lookup](#)

```
Source: whois.lacnic.net
IP Address: 201.163.93.37

% Joint Whois - whois.lacnic.net
% This server accepts single ASN, IPv4 or IPv6 queries
% LACNIC resource: whois.lacnic.net

% Copyright LACNIC lacnic.net
% The data below is provided for information purposes
% and to assist persons in obtaining information about or
% related to AS and IP numbers registrations
% By submitting a whois query, you agree to use this data
% only for lawful purposes.
% 2019-01-31 07:55:34 (-02 -02:00)

inetnum:      201.163/16
status:       allocated
aut-num:      N/A
owner:        Alestra, S. de R.L. de C.V.
ownerid:      MX-ALES-LACNIC
responsible:  Pedro Armando Abdo Cant?
address:      BLVD DIAZ ORDAZ, 3.33, KM 3.33
address:      66215 - SAN PEDRO GARZA GARCIA - NL
country:      MX
phone:        +52 81 87486201 [6201]
owner-c:      INA2
tech-c:       INA2
abuse-c:      INA2
```



Home

Notify me

Domain search

Who's been pwned

Passwords

API

About

Donate 

'!;--have i been pwned?

Check if you have an account that has been compromised in a data breach

email address

Oh no — pwned!

Pwned on 1 [breached site](#) and found no pastes ([subscribe](#) to search sensitive breaches)

 3 Steps to better security

[Start using 1Password.com](#)



file:///Users/Shared/Blackmail:scam/Have%20%20Been%20Pwned:%20



Step 1 Protect yourself using 1Password to generate and save strong passwords for each website.



Step 2 Enable 2 factor authentication and store the codes inside your 1Password account.



Step 3 Subscribe to notifications for any other breaches. Then just change that unique password.

[Why 1Password?](#)

[f](#) [t](#) [B](#) [P](#) [Donate](#)

Breaches you were pwned in

A "breach" is an incident where data has been unintentionally exposed to the public. Using the 1Password password manager helps you ensure all your passwords are strong and unique such that a breach of one service doesn't put your other services at risk.



Dropbox: In mid-2012, Dropbox suffered a data breach which exposed the stored credentials of tens of millions of their customers. In August 2016, they forced password resets for customers they believed may be at risk. A large volume of data totalling over 68 million records was subsequently traded online and included email addresses and salted hashes of passwords (half of them SHA1, half of them bcrypt).

Compromised data: Email addresses, Passwords

340	6,474,028,664	88,599	98,112,465
pwned websites	pwned accounts	pastes	paste accounts

file:///Users/Shared/Blackmail:scam/Bitcoin%20Abuse%20Dat...

Confirmed Transactions Per Day 145SmyE7DB... Adres 145SmyE7DBEQExsnXZobjbQqr5Udgb... Abuse Database: 145SmyE7DBEQExsnXZob... Balance of bitcoin address: 145SmyE7DBEQ...

BitcoinAbuse Create Report View Reports FAQ API Docs Buy Bitcoin

Search Bitcoin Address Login Register

Bitcoin Abuse Database

Report history for **145SmyE7DBEQExsnXZobjbQqr5UdgbCHh**

Address found in database:

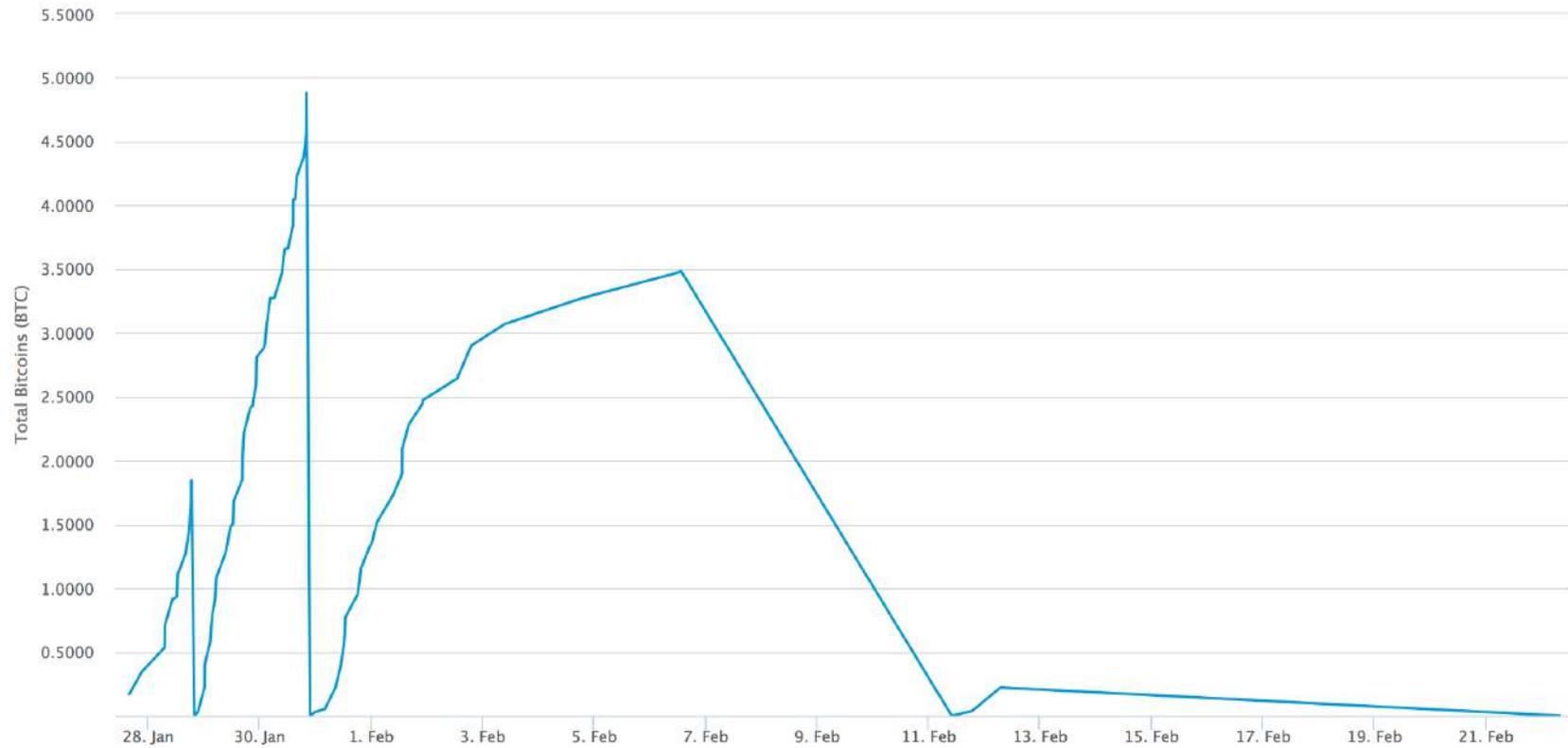
Address	145SmyE7DBEQExsnXZobjbQqr5UdgbCHh
Report Count	317
Latest Report	Thu, 31 Jan 19 09:05:34 +0000 (39 minutes ago)

[View address on blockchain.info](#)

If you have additional information about this address, please [file a report](#).

Reports:

Date	Abuse Type	Abuser	Description
Jan 31, 2019	blackmail scam	Email address spoofing	Hello! I have very bad news for you. 12/10/2018 - on this day I hacked your OS and got full access to your account.... So, you can change the password, yes... But my malware intercepts it every time.
Jan 31, 2019	blackmail	Email address spoofing	Spoofing email addresses with blackmail... Content below.



Bitcoin Adres

Adressen zijn id die u gebruikt om Bitcoins te sturen naar een andere persoon.

Overzicht	
Adres	145SmyE7DBEQExsnXZobojbQqr5UdgbCHh
Hash 160	21bf8eaf6e540cfb092343696a608515a2d9b65f

Transacties		
Geen Transacties	53	
Totaal ontvangen	\$ 23,959.52	
Eindsaldo	\$ 756.89	


[Aanvraag Betaling](#)
[Donatie Knop](#)

BorgTransacties (Oudste eerst)

[Filter](#)

b6a44c8b039e3216296175f7bb1300d85c333fcd27ec6611922784be4b7f113		2019-01-31 07:31:06
13HLGmkmVuoVBWK7mAyHgmbQw7QhNxMiYf	→ 145SmyE7DBEQExsnXZobojbQqr5UdgbCHh	\$ 577.87
		14 Bevestigingen \$ 577.87
7adbc2a9b4e14418ae90bad143851b862f774d0d330b28aa6f0939fd0443078f		2019-01-31 02:57:14
397hhJ2yM6YG6FAeQZ6Mjj4twNjYoAyDh5	→ 145SmyE7DBEQExsnXZobojbQqr5UdgbCHh	\$ 82.70
		41 Bevestigingen \$ 82.70
b6681abbec4458101180dc66d5db76353bea09bcd5e0b59a253a1bf18eb9d332		2019-01-30 22:33:50
19aY9FZuBSu5jnEmny3jz57NM4vK4kr7xy	→ 145SmyE7DBEQExsnXZobojbQqr5UdgbCHh	\$ 96.33
		60 Bevestigingen \$ 96.33

b667e1b7cc2888dc17faebb25dca402a57c18ba482ce4f756fc147c9b489f1f4		2019-01-30 20:37:56
145SmyE7DBEQExsnXZobojbQqr5UdgbCHh	➔ 3NfmCwR4sC81xwJgXSAkt2C6hgpcLVFXoy	\$ 21,612.66
	73 Bevestigingen	\$ -16,837.23
a57bed250e1c4c663fbcbafece29dece48438453f75accd5cc02583867cb0d2		2019-01-30 19:05:17
3558PYfWo8GooPkKtctvqyKH3LheoRFtLh	➔ 145SmyE7DBEQExsnXZobojbQqr5UdgbCHh	\$ 407.41
	79 Bevestigingen	\$ 407.41
dd9cebfc56054c7101140c58bb60434237eb5f7344b67d62ae9301a5b8865763		2019-01-30 19:03:16
bc1q8w9399qkykgrc0aqj3r5mvpq5tqw9trt0tmy8	➔ 145SmyE7DBEQExsnXZobojbQqr5UdgbCHh	\$ 638.95
	79 Bevestigingen	\$ 638.95
efaa485d3d05e661cea0ebeec148fe0a469a87bd6e7c96c737d6d5d9e9252931		2019-01-30 19:00:44
38G3b6i6zYtNCLzmAz5TT7B6LtgwZcsARw 3FN3kjKkX9QMJoDvmzTehqoZ5XYE8ihJEN 3HUXwhsybLsTqcHrknehSLnvJT84esVRBK 34MTtEeMVZp4HAf6c3rMCeb6avy6BYwCcm 3G1nNTYrpZBwyEiG6U3bJvZdu9sW3rbUz 3NKUh18FtiYgdnZ4DX6dIDarRLRaN7dknj 3KiNn559vGdjAv1wJ1foxnEJEv12sUMtBQ 35Dnm8EezYGE1EyyCaXhTKw8tMLS39fb1V 3Nnq8QeEksHZK6WhHAI1naHWXAN7NqrolB	➔ 145SmyE7DBEQExsnXZobojbQqr5UdgbCHh	\$ 661.38
	79 Bevestigingen	\$ 661.38
8690dfc8c107e94ff3dd1fea9f8c623d7879a07fdd56615e526531acbc87231f		2019-01-30 18:03:25
32A5fbU4De8GoDT7V2XFj465DkmbxNHYgg	➔ 145SmyE7DBEQExsnXZobojbQqr5UdgbCHh	\$ 534.13
	86 Bevestigingen	\$ 534.13
1e6a04c760ec00121dfb6f621c26c8b4622d188bc9e0d2c2e155587a66f79b80		2019-01-30 15:00:17
3JdxX1e6arKHAcdjtxiEhzQkHu4AYTXd9 3NPow6dBobzLkQdKXcCD1XNXV3nzFEN1aN	➔ 145SmyE7DBEQExsnXZobojbQqr5UdgbCHh	\$ 644.16
		\$ 644.16

Bitcoin Adres

Adressen zijn id die u gebruikt om Bitcoins te sturen naar een andere persoon.

Overzicht	Transacties
Adres 3C36MxdMqBDechTimRG4bgAG62r9zA53F6	Geen Transacties 2
Hash 717d482ae002825babbb3a62b543795fd5e3cf32160	Totaal ontvangen 12.07465734 BTC
	Eindsaldo 0 BTC
	Aanvraag Betaling Donatie Knop



Transacties (Oudste eerst)

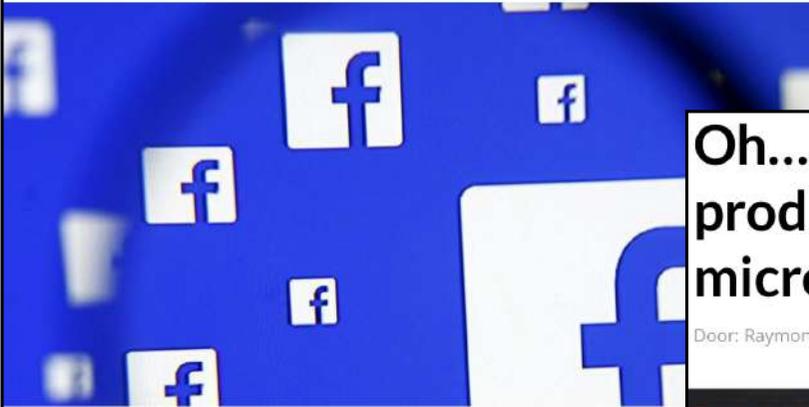
[Filter-](#)

934b4122670558fc8aee5b94023636069a45aecf7dc8d7e7b880d85fd2b2093b	2019-01-29 08:24:04
3C36MxdMqBDechTimRG4bgAG62r9zA53F6 → 32Cr6ou1me5BGAtWsF8YcKxx7ZVuye2waW3QsbXZoBRzT4rnMJGSw1XSkb1u8JYqa1kv	10.68809991 BTC 1.38652684 BTC
	-12.07465734 BTC
<hr/>	
b14fc4b8db738c50d9ae7014e38f35066e73ae73127ef478b431ec52bfdb6a7c	2019-01-28 18:49:16
1JgjcCi7sWmr3L7YXKaTAW2qoQdKztcSeu1GjZSJnpU4AFTS8vmre6rx7eQgeMUq8VYr1AuXbXYsB6HQLplEhFr2EYp3DDioJDv46H1JLcgizRh2o6jk53wZNJ4mmgxHrPdJuW3L1Jh1miFmhTmGQvn6Zejaqg85viD4k1vVjG1PjxMdF22GCcTKS Taky7ema3F5V4kjRxxam145SmyE7DBEQExsnXZobojbQqr5UdgbCHh17YKd1iJBxu616JEVo15PsXvk1mnQyEFvt1G1qFoadiDxa7zTvppSMJhJl63tNUL3cy71V4WS8j3ZduMi24TfmMXcLsrHJPYmsMbG1PH5CYMeD4ZLTZ2ZYnGLFmQRjnptyLNqcf → 3C36MxdMqBDechTimRG4bgAG62r9zA53F6	12.07465734 BTC
	12.07465734 BTC

Nieuws vandaag 08:50

Nog meer Facebook ellende

Door: Night - 19 reacties



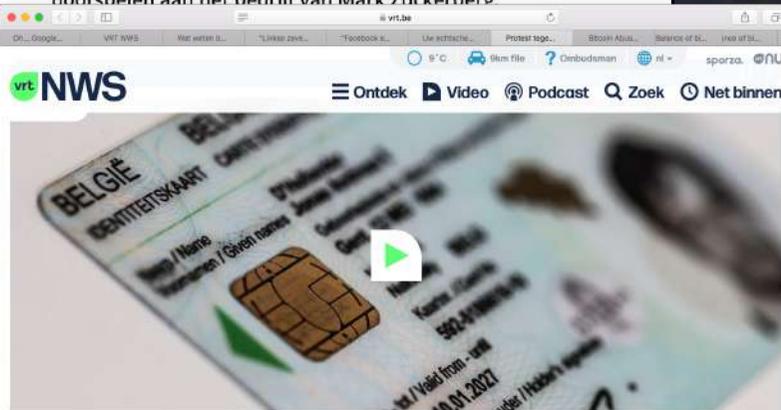
Nadat steeds duidelijker wordt hoe [schandelijk](#) Facebook met de gebruikers omspringt, staat het volgende schandaal alweer voor de deur. Het blijkt nu dat ook apps, die niets met Facebook te maken hebben, gegevens doorsnelen aan het bedrijf van Mark Zuckerberg.

Oh... Google verzweeg in Nest-producten geïntegreerde microfoon

Door: Raymon Mens - 11 reacties



...voelige blunder van Google. Het bedrijf kondigde onlangs met veel enthousiasme aan dat zijn Nest-producten zoals alarmsysteem Nest Secure nu compatibel zijn met Google Assistant. Dat wil zeggen dat je er tegen kunt praten en er dus een microfoon aanwezig is. Dat werd echter nergens



Protest tegen vingerafdrukken op identiteitskaart: #ikweiger



Network Security

Security Solutions



- Security must be implemented in multiple layers using more than one security solution.
- Network security components for home or small office network:
 - Antivirus and antispyware software should be installed on end devices.
 - Firewall filtering used to block unauthorized access to the network.

Network Security

Security Solutions (Cont.)



- Larger networks have additional security requirements:
 - Dedicated firewall system to provide more advanced firewall capabilities.
 - Access control lists (ACL) – used to further filter access and traffic forwarding.
 - Intrusion prevention systems (IPS) – used to identify fast-spreading threats such as zero-day attacks.
 - Virtual private networks (VPN) – used to provide secure access for remote workers.

Hands-on

Activity - Network Security Terminology

Activity - Identify Network Security Terminology

Terminology	Definition
<input type="text"/>	An attack which slows down network performance.
<input type="text"/>	Creates a secure connection for data transmission.
<input type="text"/>	Blocks unauthorized access to your network.
<input type="text"/>	Network attack that occurs on the day before the vendor is aware of the vulnerability.
<input type="text"/>	Arbitrary code running on a system.

definition.

Zero-day (-hour)

of Service

Network Architecture

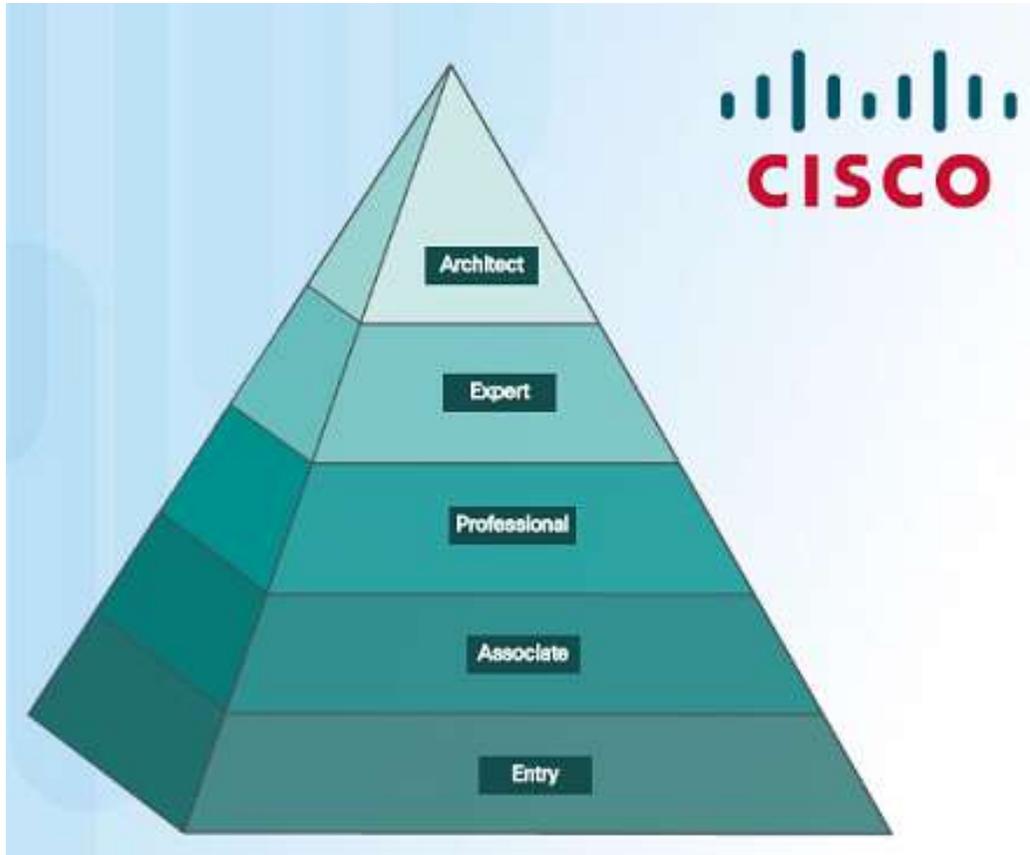
Cisco Network Architecture



- In order for networks to function while efficiently supporting connections of people, devices, and information in a media rich converged environment, the network must be built upon a standard network architecture.
- Network architecture refers to the devices, connections, and products that are integrated to support the necessary technologies and applications.
- The foundation of all network architectures including the Internet are routers and switches.

Network Architecture

CCENT and CCNA Certification



- Cisco Certified Network Associate (CCNA)
 - Routing and Switching Certification
 - Requires you to pass two exams:
 - First exam: Cisco Certified Entry Network Technician (CCENT)
 - Second exam focuses on IPv4 and IPv6 routing and WAN technologies as well as LAN switching and infrastructure services/maintenance



1.5 Summary

Conclusion

Warriors of the Net

The animated video below will help you visualize networking concepts.

<http://www.warriorsofthe.net/>



Exploring the Network

- Networks and the Internet have dramatic impact on our lives.
- A network can consist of two devices, or can be as large as the Internet, consisting of millions of devices.
- The network infrastructure is the platform that supports the network.
- Networks must be:
 - Fault tolerant
 - Scalable
 - Support Quality of Service
 - Secure



Targets

- Explain how multiple networks are used in every day life.
- Explain how topologies and devices are connected in a small to medium-sized business network.
- Explain the basic characteristics of a network that support communication in a small to medium-sized business.
- Explain trends in networking that will affect the use of networks in small to medium-sized businesses.