

[Information Technology](#)



Simpllicable Guide

[A-Z](#)
[Popular](#)
[Business](#)
[Design](#)
[Tech](#)
[More ...](#)

Advertisements

[top](#) » [information technology](#) » [networking](#) » [network infrastructure](#)

What is Network Infrastructure?

[John Spacey](#), March 28, 2018



Network infrastructure is a category of [information technology](#) that is used to provide network services that allow devices to connect and communicate. This includes foundational [networking](#) hardware, software, services and facilities. The following are common examples of network infrastructure.

Network Infrastructure			
Routers	Switches	Hubs	Bridges
Gateways	Proxies	Servers	Load Balancers
Reverse Proxy	Ethernet	Wireless Access Points	Optical Fiber
Repeaters	Optical Amplifier	Interconnects	Firewalls
Intrusion Detection Systems	Intrusion Prevention Systems	Identity & Access Management	Key Management
Certificate Authority	DNS	DHCP	SMTP
VoIP	VPN	Content Delivery Network	Edge Computing
Network Management System			

Routers

Routers connect devices and networks together by forwarding traffic. This is how traffic gets from one place to another on a [network](#) such as the [internet](#).

Switches

Switches connect devices to a network by forwarding traffic. For example, the computers in an office might be connected to switches as a means of creating a [local area network](#).

Hubs

A simple type of switch that forwards all traffic to every connected device.

Bridges

Network bridges create a single network from multiple networks.

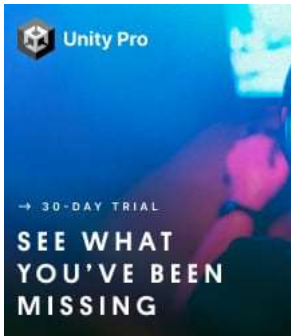
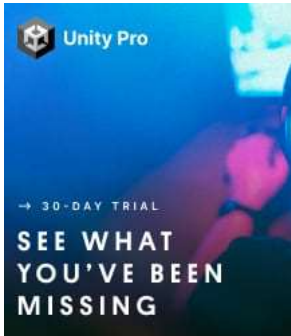
Gateways

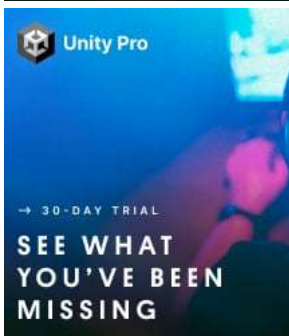
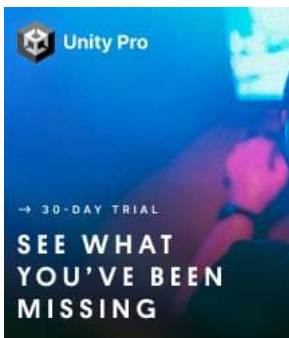
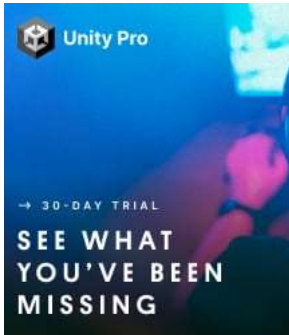
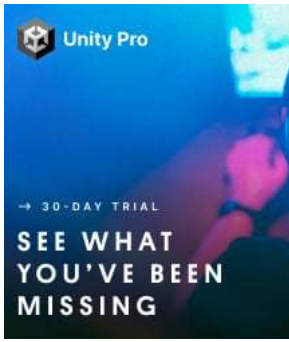
Devices that provide an interface between different types of networks. Essentially translates between different types of signal and/or protocol.

Proxies

Devices that make requests on behalf of clients. Often used to monitor, filter and log traffic on a corporate network.

Servers





A [server](#) is a computer that provides a service to other computers. For example, a web server that provides web pages to client devices.

Load Balancers

Devices that distribute work to [servers](#) to allow services to [horizontally scale](#).

Reverse Proxy

A service that appears to [clients](#) to be a [server](#) that is really forwarding requests to servers. A reverse proxy may perform services such as [load balancing](#), [encryption](#) and security.

Ethernet

A family of standards for networking that include various cable technologies and compatible computing devices, switches, hubs and routers.

Wireless Access Points

Hardware that allows wireless devices to connect to a wired network. Typically provides a wifi service.

Optical Fiber

[High capacity cables](#) that are used to create large networks including [internet backbones](#), global area networks, [wide area networks](#), metropolitan area networks and [campus area networks](#). It is also common for network endpoints to be connected with [optical fiber](#).

Repeaters

A device that receives a signal and retransmits it. Often required to transmit data great distances.

Optical Amplifier

A device that is similar to a repeater for [fiber optics](#). Increases the strength of an optical signal directly without converting to an electrical signal.

Interconnects

[Facilities](#) where [networks](#) connect to each other to exchange traffic.

Firewalls

A firewall controls network traffic based on a set of rules. A basic tool for [network security](#).

Intrusion Detection Systems

Services that monitor network traffic for malicious activity or policy violations.

Intrusion Prevention Systems

Services that monitor network traffic to detect and prevent vulnerability exploits.

Identity & Access Management

Platforms for managing [authorization](#) and [authentication](#).

Key Management

Tools for managing [encryption keys](#).

Certificate Authority

Services that publish certificates that describe organizations and their [public encryption keys](#). Basic infrastructure for encryption on the internet such as SSL and TLS.

DNS

The domain name system, or DNS, is a global distributed system for translating domain names to IP addresses.

DHCP

Dynamic host configuration protocol, or DHCP, is a service that automatically assigns IP addresses to devices.



De Prati El Recreo

Es De Peques Amar L

Cómprale, Los Mejores O

Tiendas Y Deprati.Com

Store info

Di

De Prati El Recreo

Consiente A Papá Y A T

Dale A Papá El Smartphon

Tanto Quiere

Store info

Di



Los ecuatorianos reci
formación gratuita pa
aprender a invertir e

www.clasesdeconomia.com



Los ecuatorianos reci
formación gratuita pa
aprender a invertir e

www.clasesdeconomia.com

Related Guides

- [AI](#)
- [Automation](#)
- [Economics](#)
- [Ethics](#)
- [Gamification](#)
- [IT](#)
- [Networks](#)
- [Content Delivery Network](#)
- [Internet Of Things](#)
- [Intranet](#)
- [Key Concepts](#)
- [Last Mile](#)
- [Overlay Network](#)
- [Peer-to-peer](#)

SMTP

Simple mail transfer protocol, or SMTP, is a type of service that delivers email.

VoIP

Technologies for voice communications over internet protocol. For example, software that allows you to make long distance phone calls using an internet connection.

VPN

Virtual private network, or VPN, are services for securely connecting to a [private network](#) over an untrusted network such as the [internet](#). For example, VPN software that allows an employee to connect to an office [local area network](#) from home.

Content Delivery Network

Services that allow publishers to serve content such as images and videos [from a data center that is close to each user](#) to reduce [latency](#).

Edge Computing

Services that allow you to compute in different geographical locations to achieve scale and to compute more efficiently by processing data geographically close to clients and/or data sources.

Network Management System

Tools for operating, managing and deploying network devices.

Overview:	Network Infrastructure
Type	Networking
Definition	A category of information technology that is used to provide network services that allow devices to connect and communicate.
	Networking »
	Information Technology »
Related	Networking »
Concepts	Internet »
	Local Area Network »
	Proxies »

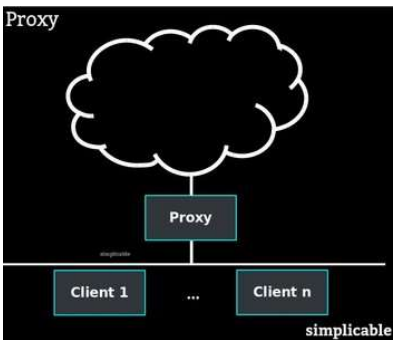
Networking

This is the complete list of articles we have written about networking.
[Architecture](#)[Campus Network](#)[CDN](#)[Client-Server](#)[Endpoints](#)[Internet Backbone](#)[Internet Of Things](#)[Intranet](#)If you [enjoyed this](#) [Point Of Presence](#)[Private Network](#)[Proxy Server](#)[Public Network](#)[Reverse Proxy](#)[Space Network](#)[Tarpit](#)[Telecom](#) [More ...](#)page, please consider bookmarking Simpllicable.

[Cite »](#)

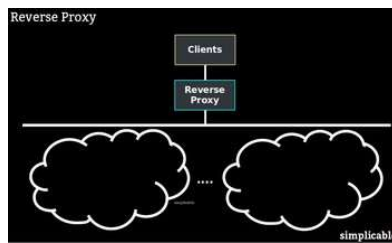


[What are Endpoints?](#)
[The three common types of computing endpoint.](#)



[Proxy vs Reverse Proxy](#)
[The difference between proxies and reverse proxies with examples.](#)

[6 Examples of a Reverse Proxy](#)
[An overview of reverse proxies with examples.](#)

[Technology](#)[Information Security](#)[Technology Management](#)[Networks](#)[Technology Culture](#)[Artificial Intelligence](#)[Low Technology](#)[Networking](#)

A list of networking techniques and concepts.

[Local Loopback](#)

[An overview of local loopback networking.](#)



[Networking Guide »](#)

[What is Asynchronous Communication? »](#)

[15 Components of a Data Center »](#)

[7 Types of Deep Web »](#)

[A Really Quick Guide to Local Loopback »](#)

[Networking Basics](#)

A list of basic computer networking concepts.



[62 Examples of Networking Basics »](#)

[What is a Host \(computing\)? »](#)

[7 Examples of a Node »](#)

[Latency](#)

The definition of latency with examples.



[What is Latency? »](#)

[11 Types of High Latency »](#)

[Network Throughput](#)

[A complete overview of network throughput.](#)

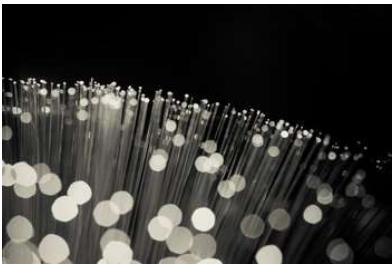
[What is Network Throughput? »](#)



[Computing](#)



[Coding](#)



[Network Performance](#)

The common types of network performance.



- [7 Types of Network Performance »](#)
- [6 Examples of a Keep Alive »](#)
- [What is Network Throughput? »](#)

[Synchronous](#)

The definition of synchronous with examples.



- [7 Examples of Synchronous Communications and Processes »](#)

[IT Infrastructure](#)

A definition of IT infrastructure with several examples.



- [11 Examples of IT Infrastructure »](#)
- [17 Examples of an API Gateway »](#)
- [21 Examples of Load Balancing »](#)
- [12 Examples of Infrastructure As Code »](#)

[API Gateway](#)

The definition of API gateway with examples.



- [17 Examples of an API Gateway »](#)

[Load Balancing](#)

An overview of load balancing with examples.



- [21 Examples of Load Balancing »](#)

[Infrastructure Examples](#)

[An overview of infrastructure with examples.](#)



[50 Examples of Infrastructure](#) »

[Trending](#)

The most popular articles on Simplicable in the past day.



[7 Examples of Social Constructionism](#)

[The definition of social constructionism with examples.](#)



[Motivation: Intrinsic vs Extrinsic](#)

[The difference explained with a few examples.](#)



[44 Examples of Performance Goals](#)

[An overview of performance goals with concrete examples.](#)



[16 Types of Employee Motivation](#)

[The definition of employee motivation with examples.](#)

[New Articles](#)

Recent posts or updates on Simplicable.



[54 Examples of Personal Brand](#)

[An overview of personal brand with examples.](#)

[120 Examples of Personal Interests](#)

[A list of common personal interests.](#)



[9 Examples of Consequences](#)
[An overview of different types of consequences with examples.](#)



[81 Examples of Student Goals](#)
[A list of common student goals.](#)

- [Site Map](#)
- [Farming](#)
- [Finance](#)
- [Governance](#)
- [Government](#)
- [Humans](#)
- [Industries](#)
- [Influencing](#)
- [Information](#)
- [Information Security](#)
- [Information Technology](#)
- [Infrastructure](#)
- [Innovation](#)
- [Investing](#)
- [Knowledge](#)
- [Leadership](#)
- [Life](#)
- [Management](#)
- [Management Accounting](#)
- [More...](#)

© 2010-2020 Simplicable. All Rights Reserved. Reproduction of materials found on this site, in any form, without explicit permission is prohibited.

View [credits & copyrights](#) or [citation information](#) for this page.

- [About](#)
- [Privacy Policy](#)
- [Cookies](#)
- [Terms of Use](#)
- [Contact Us](#)
- [Sitemap](#)

Cookies help us deliver our site. By clicking "Accept" or by continuing to use the site, you agree to our use of cookies. Visit our [privacy policy](#), [cookie policy](#) and [consent tool](#) to learn more.

Copyright 2002-2022 Simplicable. All rights reserved. This material may not be published, broadcast, rewritten, redistributed or translated. Report violations [here](#).

PAGE PROTECTED BY **COPYSCAPE** DO NOT COPY

