

The Internet

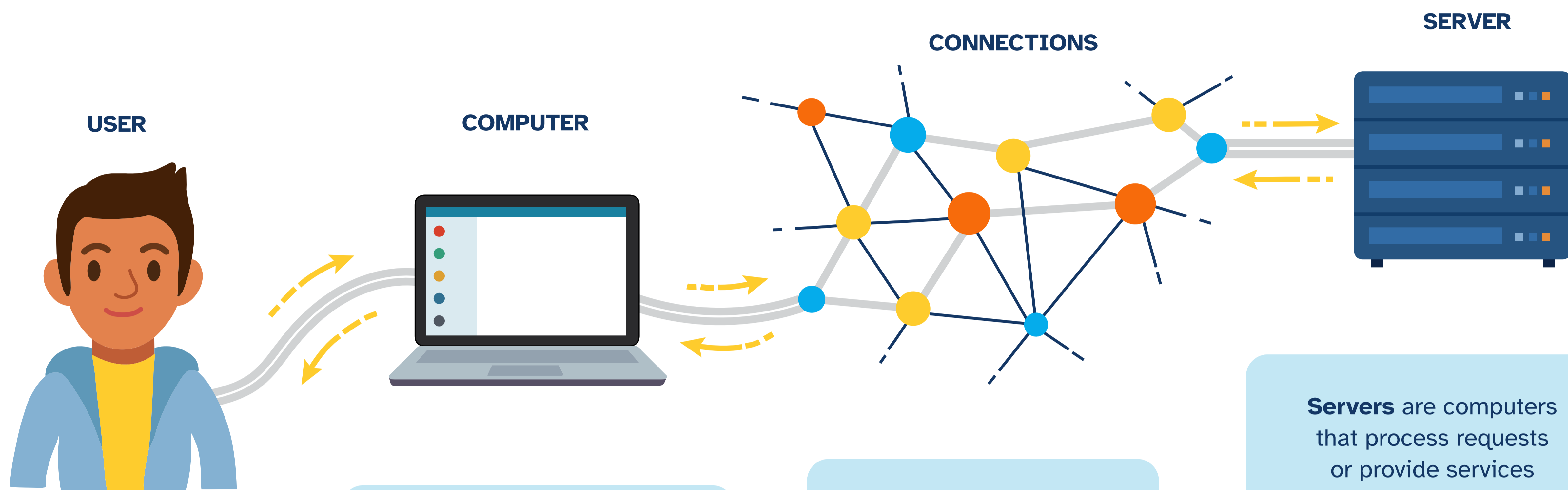
The **Internet** is a network of computer networks around the world.

Cyberattacks

A **cyberattack** happens when a person uses the Internet to steal, hurt, or cause damage.

Cybersecurity

Cybersecurity is the protection of computers, data, and identity.



Users access the Internet.

Access happens through a **computer**—a technology that receives input, stores and processes information, and gives output.

Many **network devices** link computers together.

Servers are computers that process requests or provide services to users.

Phishing is an attempt to trick a user into revealing information or installing malware.

Malware is software that steals information from a computer or lets a hacker infect it with remote-control software.

Remote-control software lets an attacker control computers over the network and use them to cause damage.

A **denial-of-service attack** happens when an attacker uses lots of remote-controlled computers to flood a server with many messages to slow it down or break it.

A user with **security awareness** is careful when using the Internet.

Encryption changes information into a form attackers can't easily understand.

Antivirus checks for suspicious programs and remote-control software and stops them from working.

A **firewall** lets only certain requests reach a server or other part of a network.

CAREERS

There are many **careers** in cybersecurity.



Defensive **Blue Team** careers focus on designing security systems and analyzing attacks.



Offensive **Red Team** careers focus on finding weaknesses in security systems so they can be fixed.