

# Course 3 resources and citations

## Week 1: Network architecture

### Resources

[Helpful resources to get started](#)

- [Coursera Code of Conduct](#)
- 
- [Coursera Honor Code](#)
- 
- [Coursera: Edit my profile](#)
- 
- [Coursera: Learner Help Center](#)
- 
- [Coursera's Global Online Community](#)
- 
- [Google: Common problems with labs](#)
- 
- [Google Docs help](#)

- 
- [Google Sheets help](#)
- 
- [How to use Google Slides](#)
- 
- [Microsoft Excel help and learning](#)
- 
- [PowerPoint help and learning](#)
- 
- [Word help and learning](#)
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# Citations

## [Network components, devices, and diagrams](#)

- Meyers, Mike, and Scott Jernigan. (2019) CompTIA A+ Certification All-in-One Exam Guide, (Exams 220-1001 & 220-1002).
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- GeeksforGeeks. (2022, March 21). [Devices used in each layer of TCP/IP model](#)

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## [Cloud computing and software-defined networks](#)

- Rackspace Technology Colo Data Centers. (n.d.). [What is colocation?](#)
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- Fortinet. (n.d.). [What is hybrid cloud?](#)
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## [Learn more about the TCP/IP model](#)

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- International Business Machines. (2022, Nov 15). [User datagram protocol](#)
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- . System administration guide, volume 3.
- Study CCNA. (n.d.). [OSI & TCP/IP models](#)
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## [The OSI model](#)

- Cloudflare. (n.d.). [What is the OSI model?](#)
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- FreeCodeCamp. (2020, December 21). [The OSI Model – The 7 Layers of Networking Explained in Plain English](#)
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- Imperva. (n.d.). [OSI Model](#)
- . Application security.

## [Components of network layer communication](#)

- Agnė Srėbaliūtė. (2022, Aug 2). [IPv4 packet header: Format and structure](#)
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- Gsephrioth. (2017). [The IP diagram](#)
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- Wright, Robert. (October 1998). *IP Routing Primer*. O'Reilly.

# Week 2: Network operations

## Citations

### Network protocols

- National Institute of Standards and Technology. (n.d.). [Glossary](#)
- . Accessed December 2022.

### Common network protocols

- Cloudflare. (n.d.). [What is a protocol? | Network protocol definition](#)
- .
- CompTIA. (n.d.). [What is a network protocol and how does it work?](#)
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- Oracle. (n.d.). [TCP/IP protocol architecture model](#)
- . System administration guide, volume 3.

### Additional network protocols

- IBM. (2022, Oct 17). [TCP/IP address and parameter assignment - Dynamic host configuration protocol](#)
- . IBM AIX documentation.
- Microsoft. (n.d.O). [What are IMAP and POP?](#)
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### The evolution of wireless security protocols

- Asus. (2022, January 14). [\[Wireless\] What is WPA3? What are the advantages of using WPA3?](#)
- FAQ.
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- Cisco Press. (2010, April 9). [Moving to WPA/WPA2-Enterprise wi-fi encryption](#)
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## Firewalls and network security measures

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- Cloudflare. (n.d.). [What is a subnet?](#)
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# Week 3: Secure against network intrusions

## Resources

### [Analyze network attacks](#)

- [CompTIA](#)
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## Citations

### [The case for securing networks](#)

- Vinton, Kate. (2014, September 18). [\*With 56 million cards compromised, Home Depot's breach is bigger than Target's\*](#)
- . Forbes.

### [Analyze network layer communication](#)

- Lager, Nathan. (2020, April 3). [Network Troubleshooting with Packet Captures](#)
- . Enable Sysadmin.
- Oracle. (n.d.) [How the TCP/IP Protocols Handle Data Communications \(System Administration Guide: IP Services](#)
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## [Real-life DDoS attack](#)

- Olenick, D. (2020, December 10) [Guilty plea in 2016 Dyn DDos attack](#)
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## [Overview of interception attacks](#)

- Engebretson, P. (2013). *The basics of hacking and penetration testing: ethical hacking and penetration testing made easy*. Elsevier.

# Week 4: Security hardening

## Resources

### [Course 3 glossary](#)

### [Apply OS hardening techniques](#)

- [Opensource.com](#)
- 
- [lana.org](#)
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- [Geekflare](#)
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- [Packet Pushers](#)
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# Citations

## OS hardening practices

- National Institute of Security Technology. (2018, October). [\*Guide to securing macOS 10.12 systems for IT professionals\*](#)
- . Special publication 800-179, revision 1. Accessed December 2022.

## Apply OS hardening techniques

- Doropoulos, N. (n.d.). [DNS Query Flood Attack.](#)
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## Use the NIST Cybersecurity Framework to respond to a security

- Bhardwaj, P. (2023, January 2). [How to detect an ICMP flood attack and protect your network.](#)
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Firch, J. (2023, February 28). [How to prevent a ICMP flood attack.](#)

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