tripleten

Design elements for network diagrams

CS Sprint 1 | Final Project

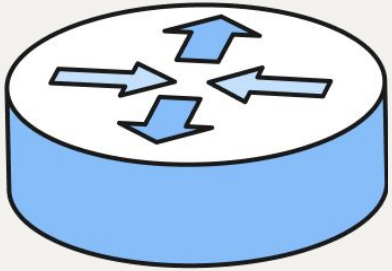
tripleten

Instructions for the template

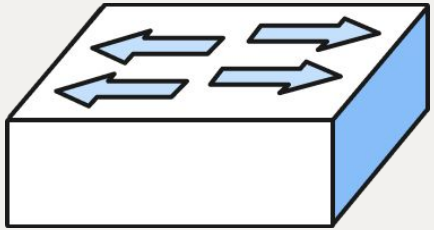
Do not change this file!

1. Create a copy of this file.
2. Use the elements from this file for your “Tempus Fugit” Project.
3. If you’ve deleted any icons or slides from your own copy, you can easily copy and paste necessary slides from here.
4. When you paste any text from another source, please use the “match destination formatting” option to keep your project’s style consistent.
5. Enjoy!

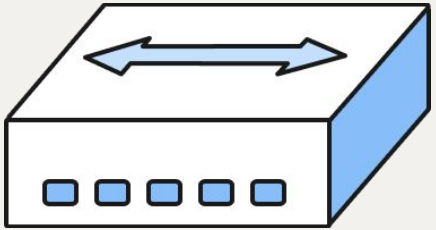
Devices



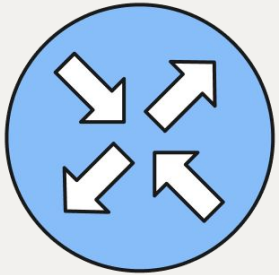
Router

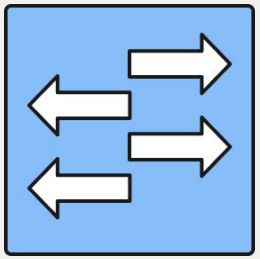


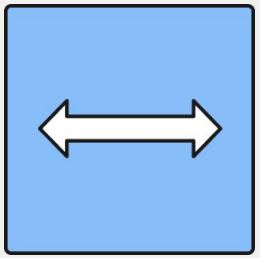
Switch



Hub

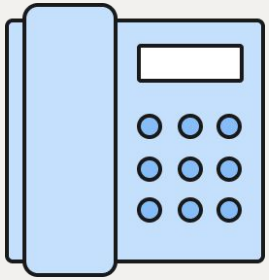




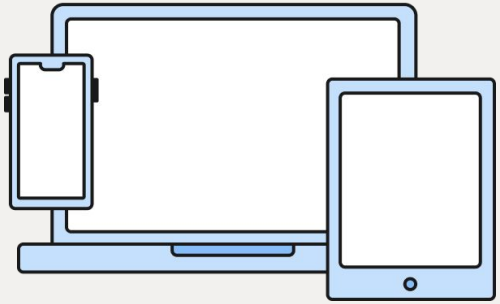


If you need to make a complicated design, use these simplified icons to keep the diagram clean and readable

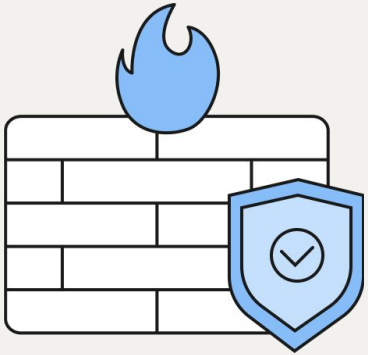
Devices



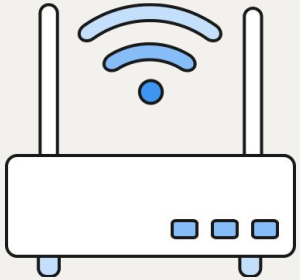
Phone



User Devices



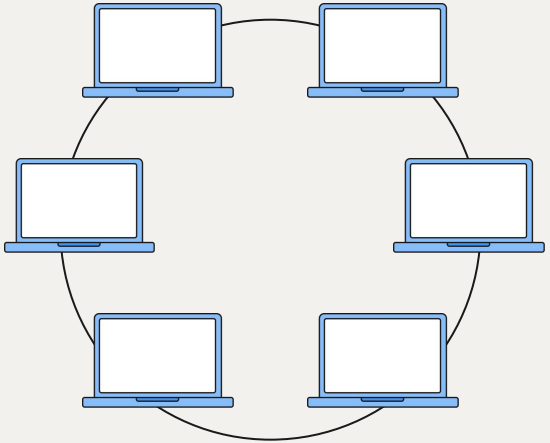
Firewall



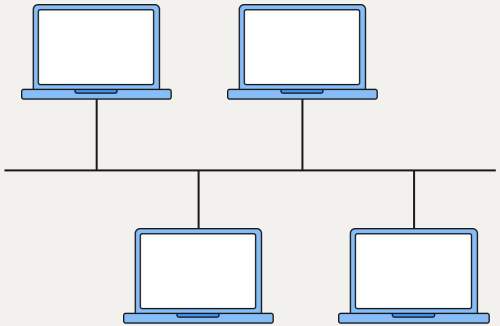
Wi-Fi access point

Printer

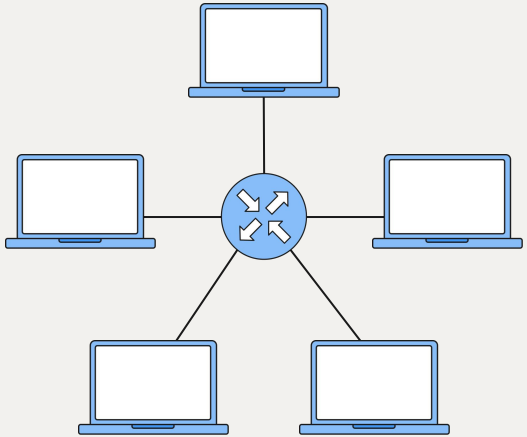
Topologies



Ring topology

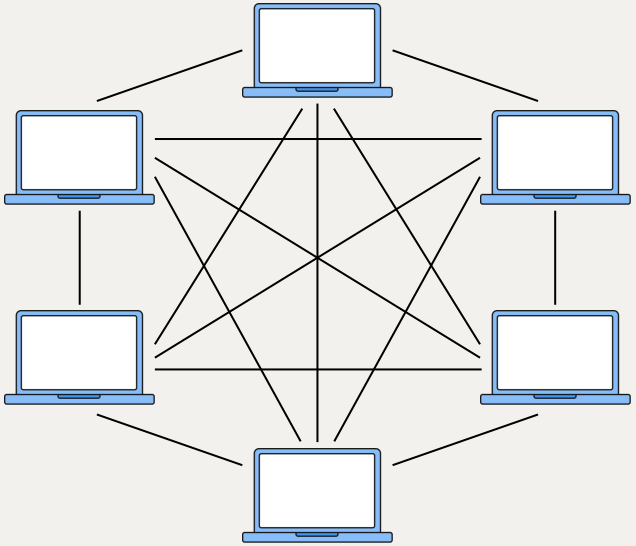


Bus topology

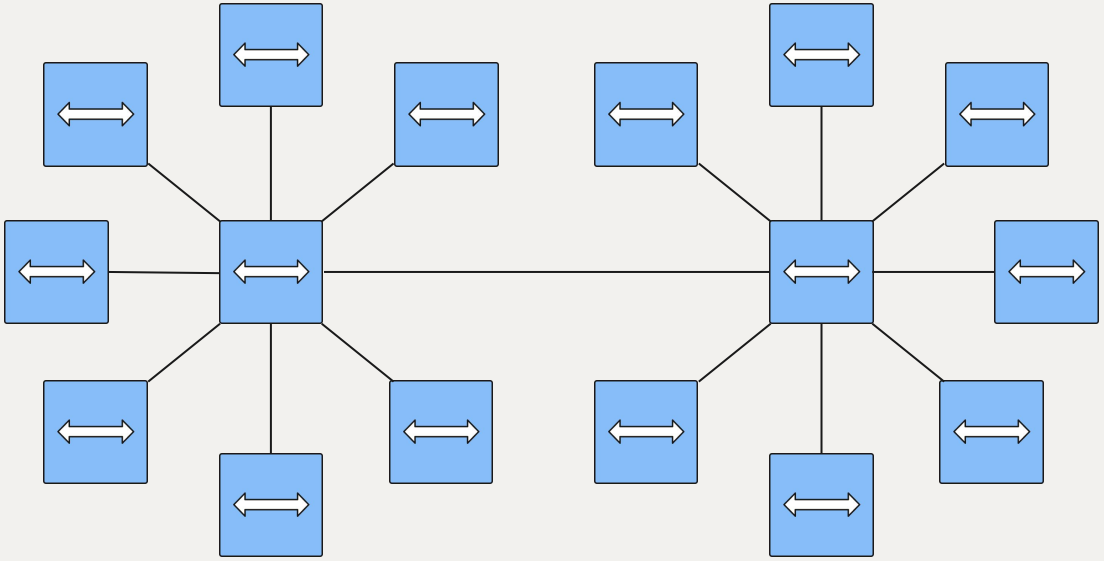


Star topology

Topologies

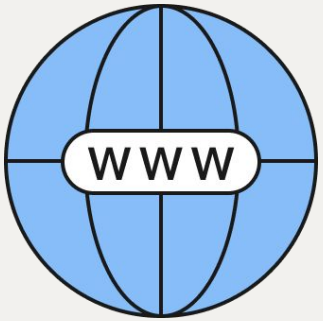


Mesh topology

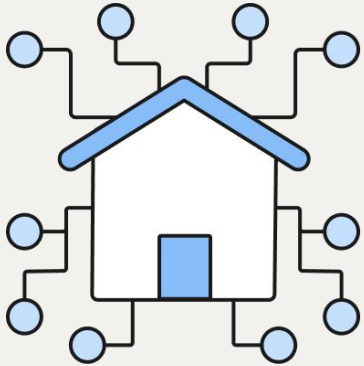


Hub-and-Spoke topology

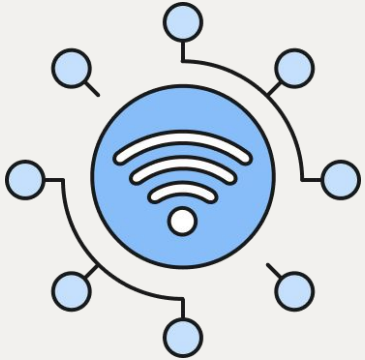
Area Networks



Internet
(WAN)



Local Network
(LAN)

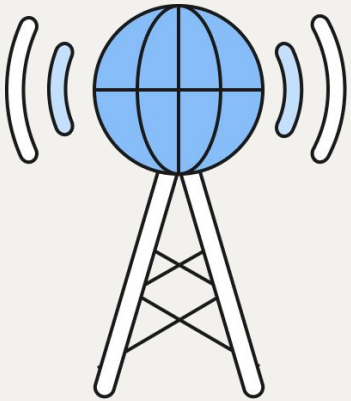


Wireless Network
(WLAN)

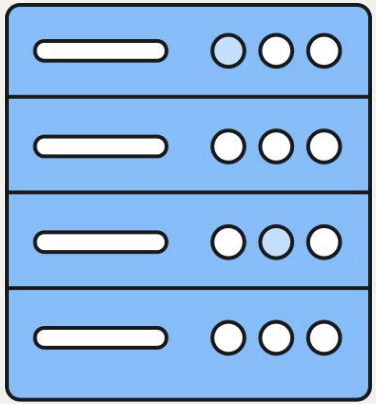
When you need to create connections between the networks, please use the following types of lines:

- Wired network for WAN
- Wired network for LAN
- Wireless network for WLAN

Service Providers



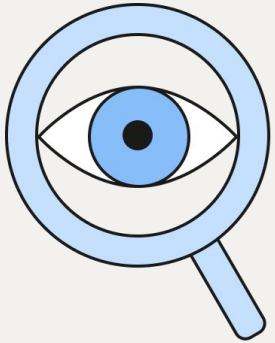
ISP



Data Center

Cloud Service Provider

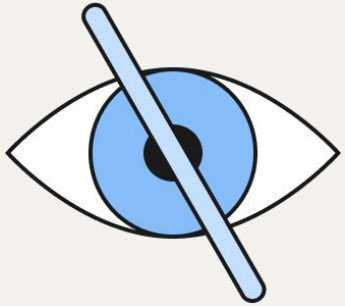
Continuous Monitoring



Network Observability

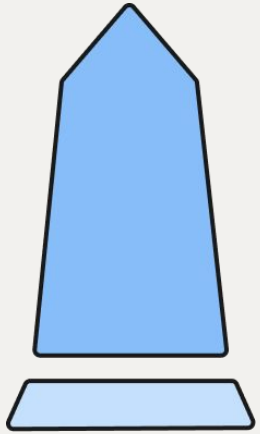
Endpoint Detection & Response (EDR)

Vulnerability Scan

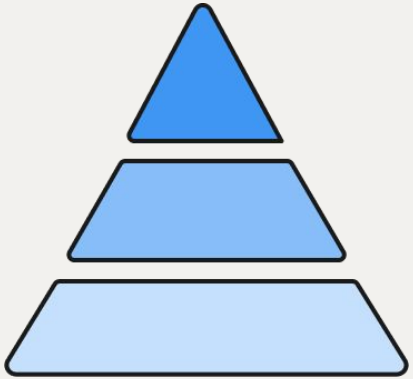


No visibility into network

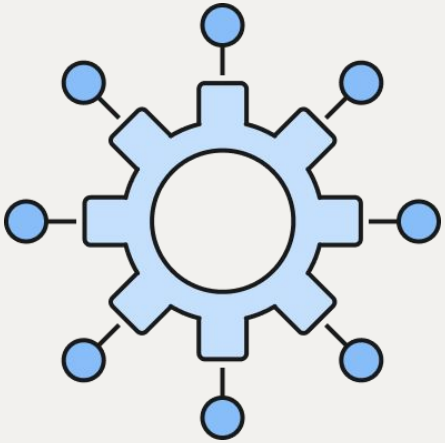
Architectures



Monolithic ERP
(Architecture)



Three-tier
(Architecture)

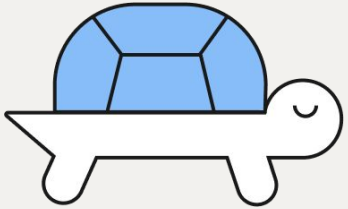


Cloud
microservices
(Architecture)

Connection Types

Wired connections

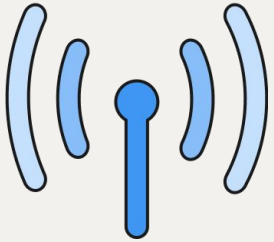
High-speed Connection



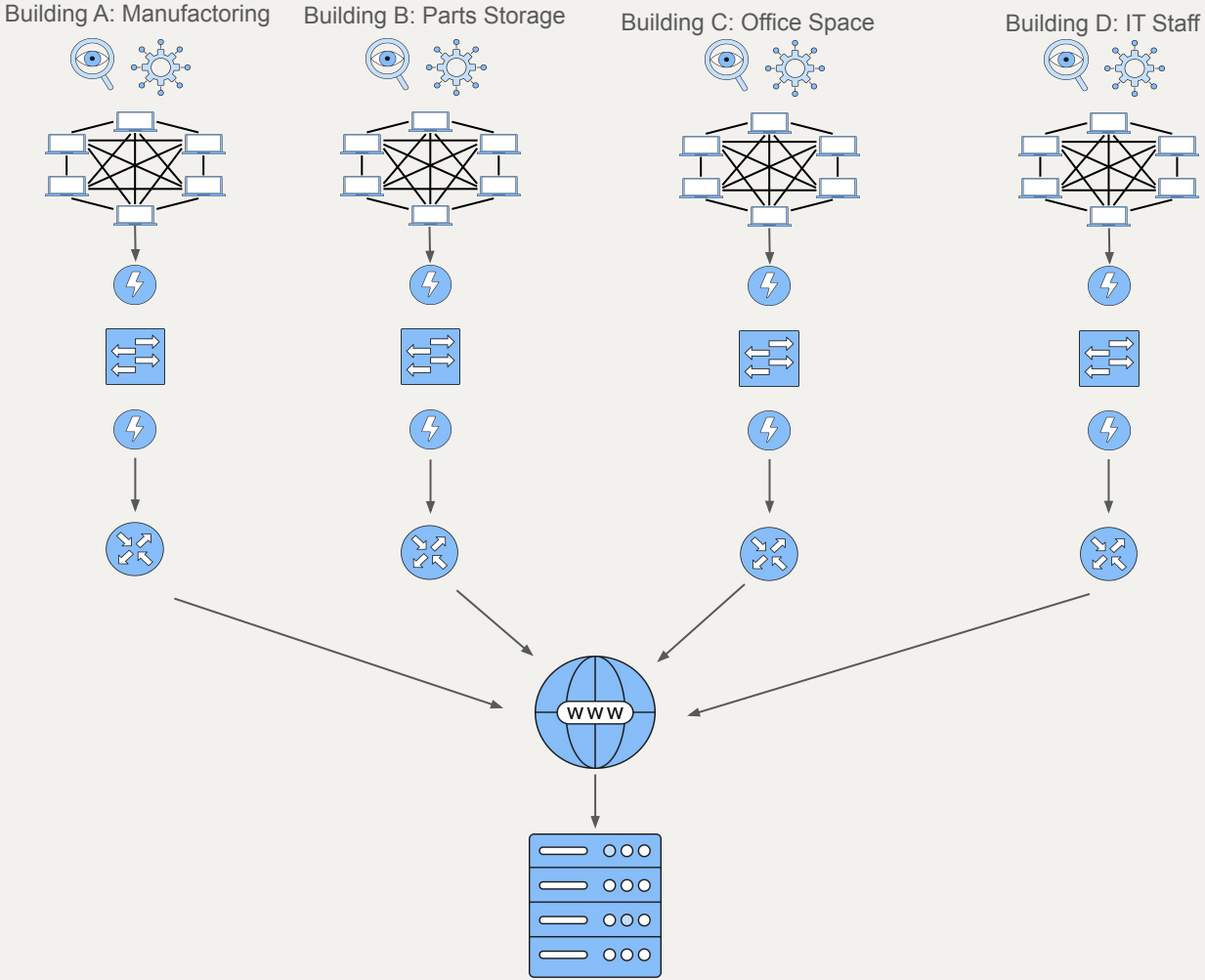
Low-speed Connection

Wireless connections

Wi-Fi Connection



Cellular Connection


Building A: Manufactoring
Building B: Parts Storage
Building C: Office Space
Building D: IT Staff
WWW

First, I would create a cloud backup of all of their files for their current system. This will help with there transition to newer systems. It is also the beginning step in creating an appropriate ERP with an solid DRP for maintain their BCP.

Next I would begin implementing a Three Tier Architecture while using the concept of Zero Trust.

I would likely create a hybrid model for their network design. In certain areas I would most likely be implementing a Star network while in other parts of the building I may implement a Hub & Spoke network design.

I would suggest giving employees access to company cell phones or laptops so they can reach their employee email while at home, on vacation or even the public transit.

Likely it seems to be a relatively simple upgrade depending on a number of factors which aren't given. It would take some hardware upgrades along with new network configurations. Company devices should create a pretty solid base level mesh. As long as the new routers & servers are installed correctly, it would be about teaching their IT people how to navigate their new systems. This is assuming we aren't stepping in as their new IT people. Some of this will depend on how much they're willing to spend.

I might suggest that they upgrade their servers so that they're essentially their own data storage center. This might not make financial sense for them as we don't know their budget.

Maybe simply suggest a baseline minimal upgrade with the proposal that they buy ransomware insurance?