TECHcon.

Network Documentation Form

4/20/23

I. Overview

PROJECT TITLE: TECHcon 2.0
PROJECT MEMBERS: Hunter De Vries-Ramires, Diego Johnson, Alexis Sloan, Sam Roethemeyer
COMPLETION DATE ETA: One Business Month

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SCOPE

To provide a comprehensive overview of various components of our network. While ensuring a safe and stable work environment. Providing specific regulations and standards that give detailed documentation of our network infrastructure and security.

The cost of our equipment, third-party sources, and office space comes out to be $68,742. The total first year cost is $382,982.

The whole project cost will be $70,000.

Actions

Our goal for this project is to document a network that meets the requirements of the National Institute of Standards and Technology (NIST) and ensure a defined and stable work environment that can be made to improve the security and resilience of the network. Our goal with this project is that we aim to enhance our knowledge and skills in network documentation, cybersecurity risk management, and NIST guidelines.

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Steps/ Risk Assessment

- Step 1: Define scope and objectives

- Step 2: Identify assets and systems

- Step 3: Identify threats (internal and external)

- Step 4: Identify vulnerabilities

- Step 5: Determine likelihood and impact of a threat exploiting a vulnerability

- Step 6: Determine level of risk

- Step 7: Identify and prioritize risk management actions

- Step 8: Implement and monitor risk management actions

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NIST Controls

Controls

- NIST SP 800-53 R5 AC-3 ACCESS ENFORCEMENT
- NIST SP 800-53 R5 AC-12 SESSION TERMINATION
- NIST SP 800-53 R5 AC-18 WIRELESS ACCESS

Auditing

- NIST SP 800-53 R5 AU-1 POLICY AND PROCEDURES
- NIST SP 800-53 R5 AU-2 EVENT LOGGING
- NIST SP 800-53 R5 AU-3 CONTENT OF AUDIT RECORDS
- NIST SP 800-53 R5 AU-9 PROTECTION OF AUDIT INFORMATION

Configuration Management

- NIST SP 800-53 R5 CM-7 LEAST FUNCTIONALITY
- NIST SP 800-53 R5 CM-8 SYSTEM COMPONENT INVENTORY

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Timeline

If we are contracting all of this, it would take one business month. Any third-party source will probably take the longest as we can't control that workflow. And since it is an in-house contract then we can also look over specific aspects to make sure they are okay if something arises.

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Cost-Benefit Analysis

Costs Notes:	Total First Year Cost: $382,982
What is the cost of the project 2 High Work PC - $2818 2 Low Work PC - $2078 5 Gaming PC - $7555 2 Routers - $1178 3 Switches - $7125 2 Firewall/IDPS - $1320 Rent/SR/Yr - $21.60/2100 SF/YR -> $45,360 Square Space - $49 Monthly -> Yearly $588 ADT Security - $60 Monthly -> Yearly $720 ————————————————— = $68,742	Reception - $37,440 per year IT Tech - $68,640 per year Computer Tech - $56,160 per year CEO - $152k per year ——————————————————————= $314,240

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Physical Items- 2 weeks from being ordered to delivered

HighWork PC

Low Work PC

Firewalls

Switches

Routers

Gaming PC

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# Security for the building, how we clock in, and payment

SquareSpace System This will take a day to order, take a week to install

ADT System This will take a day to see what we would need specifically, a week to get it installed

The rooms will be locked, with only a set amount of keys that would be made (specific people will only be allowed to have the keys. The building itself would be the same. Pay a locksmith to put in locks, this might take a day or two.
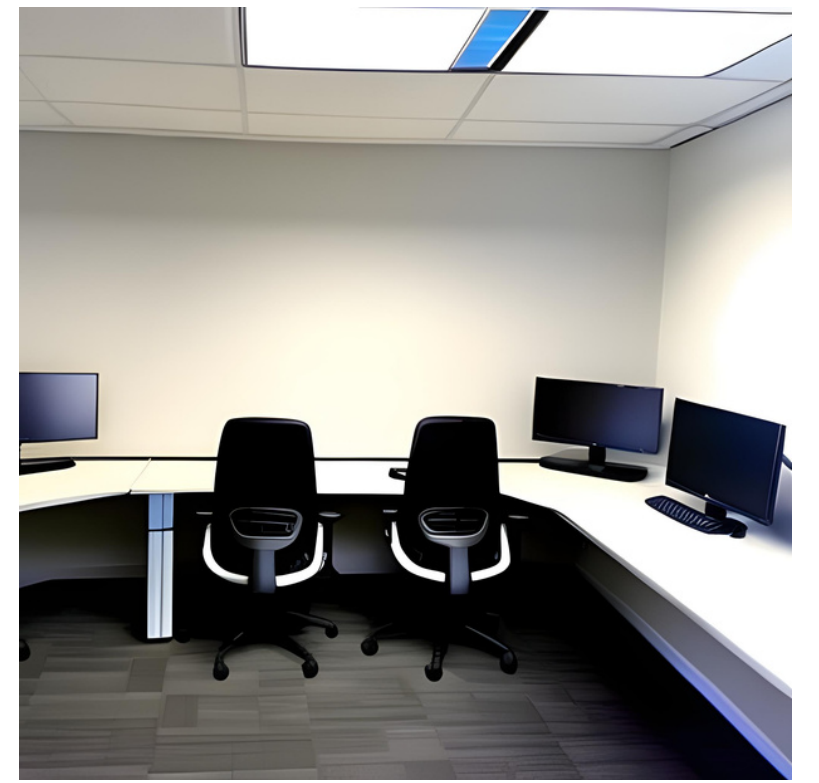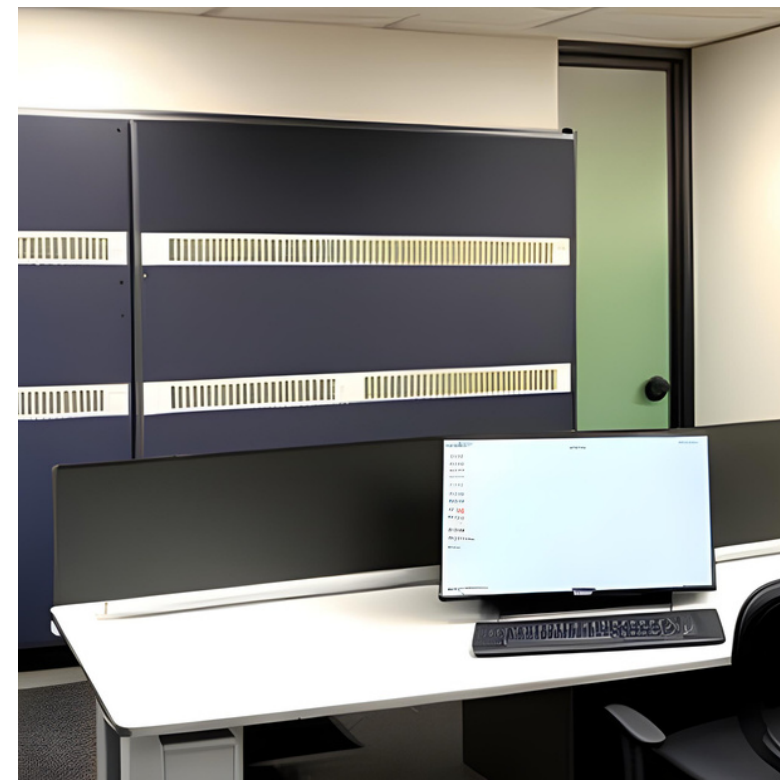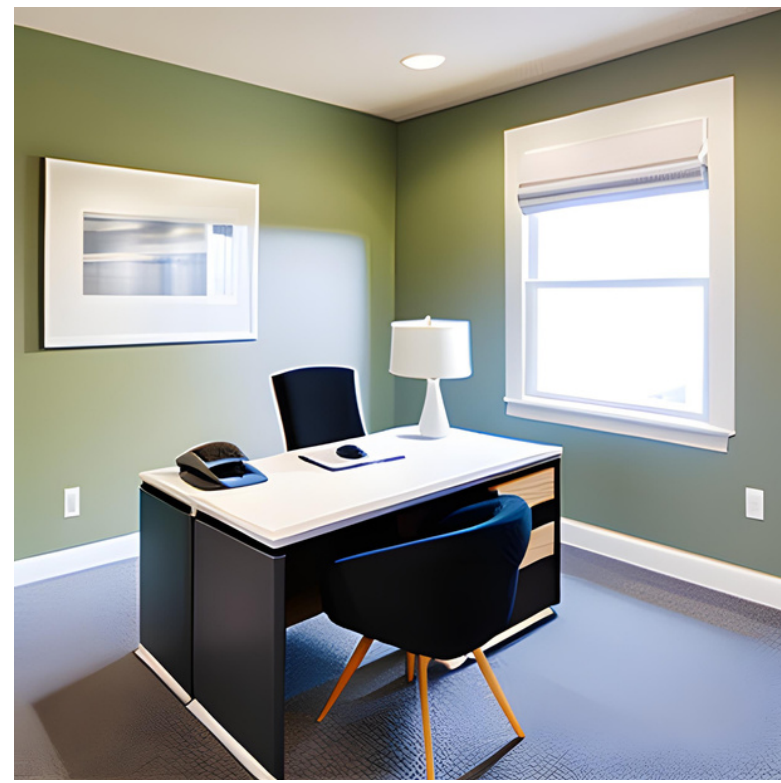
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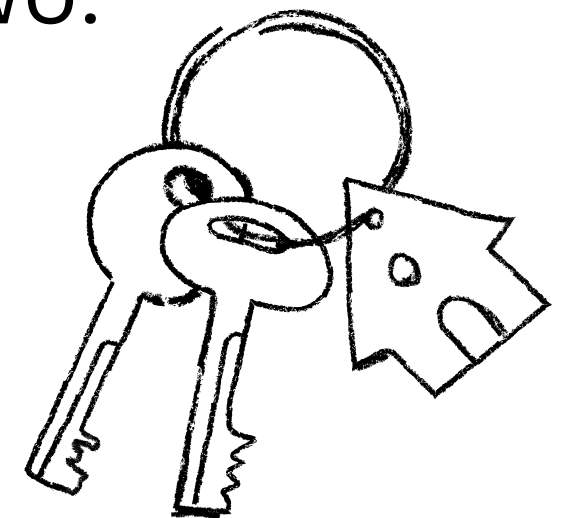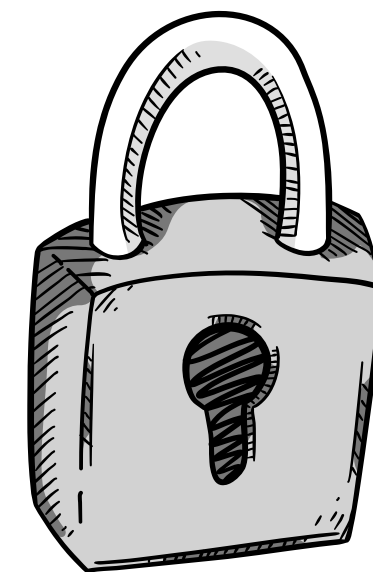
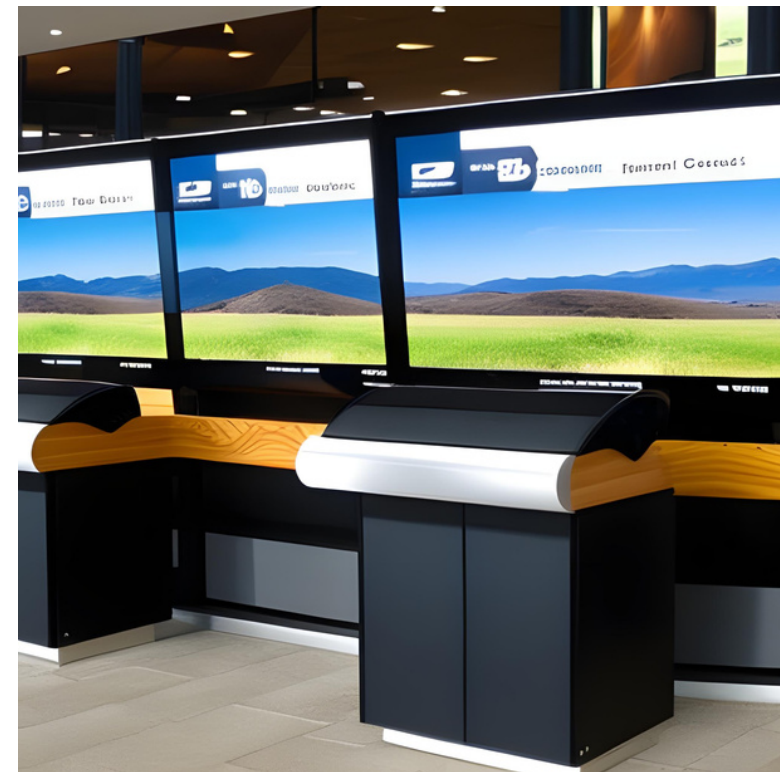| Network Security	Physical Security
Segmented Vlans Port Security Auto port shut off Auto log off	Rfid access Cameras Locks Rfid Puck System Security Systems Fire alarm

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Receptionist / What you walk into

CEO office

Computer Tech Department

IT Tech department

What the outside looks like

The Kiosks

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Network Diagram

Firewalls 1 & 2
Two for redundency

IDPS 1 & 2
Two for redundency

Management PC

Sales PC

I.T. PC

Switch 1

VM Server

Router 1

Router 2

Switch 2

Cahier PC

Switch 3

Kiosk PC1

Kiosk PC2

Kiosk PC3

Kiosk PC4

KioskPC5

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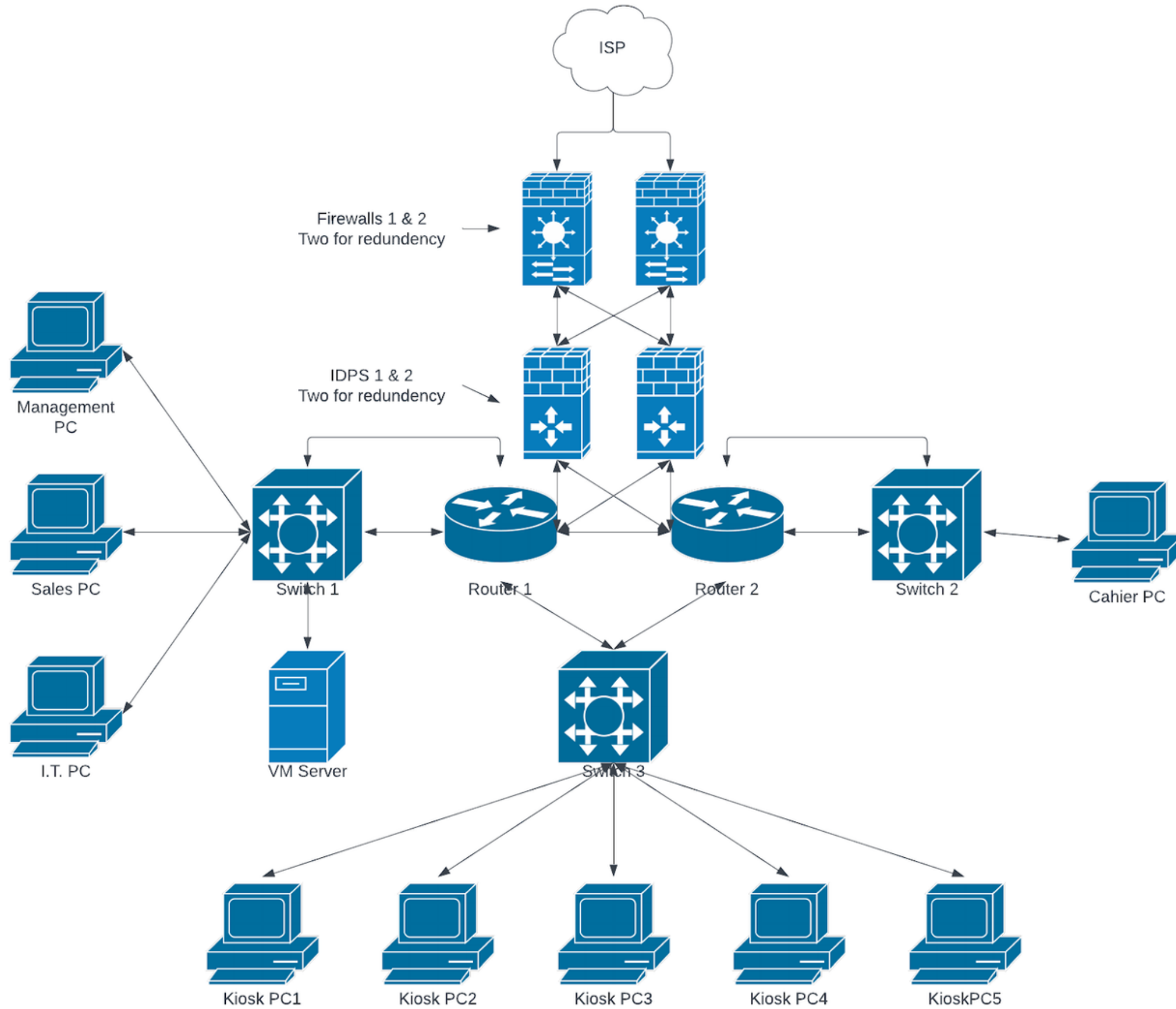
Life Cycle

Since we are using (NIST) and they have developed a standard framework known as the "NIST Cybersecurity Framework" which outlines a set of guidelines, this is most likely what we will be using. It uses the best practices, and standards for organizations to manage and improve their cybersecurity posture. The framework is organized into five functions, one of which is the "Lifecycle" function, which is intended to provide guidance on how to manage cybersecurity risk throughout the entire lifecycle of an organization's systems and assets.

The Lifecycle function is comprised of Five subcategories:

Identify: This subcategory involves identifying and managing cybersecurity risk to systems, assets, data, and capabilities.

Protect: This subcategory involves implementing appropriate safeguards to ensure the delivery of critical infrastructure services.

Detect: This subcategory involves continuous monitoring and detection to identify cybersecurity events.

Respond: This subcategory involves developing and implementing appropriate activities to take action regarding detected cybersecurity events.

Recover: This subcategory involves restoring any capabilities or services that were impaired due to a cybersecurity event.

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Contact Information

CEO	Computer Tech	IT Specialist	Supervisor/ Receptionist
Sam Roethemeyer Office: (###)-###-#### Mobile: (###)-###-#### Email: thisismyemail@email.com	Diego Johnson Office: (###)-###-#### Mobile: (###)-###-#### Email: thisismyemail@email.com	Hunter De Vries-Ramirez Office: (###)-###-#### Mobile: (###)-###-#### Email: thisismyemail@email.com	Alexis Sloan Office: (###)-###-#### Mobile: (###)-###-#### Email: thisismyemail@email.com

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Final Notes w/cites:

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