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Candidate Name:	ISHAN BAPARDEKAR		
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Centre:	FUT004		
Word Count:	2939		

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I confirm that I have not exceeded the stipulated word limit by more than 10%.

I confirm that this is my own work and that I have not colluded or plagiarised any part of it.

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Date:	April 20, 2025

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Task 1 - Project Requirements Analysis - 10 marks

Develop a detailed analysis of the project requirements based on the scenario provided.

- a) Identify key requirements for the LAN design, including the number of employees, types of devices and specific needs of different departments. (5 marks)
- Analyse the company's growth plans and scalability requirements and expected network traffic. Identify high-bandwidth applications and services used by the company and explain how this impacts the network design. (5 marks)

Task 1 project requirement analysis

A) Key requirements for LAN design:

1. Number of employees and expected rise

- The current workforce comprises 150 employees, with projected growth to 300 employees in future.
- Each employee will likely use one or more devices, including:
 - Desktops or laptops (for development and office work)
 - Mobile devices (smartphones, tablets)
 - VoIP phones (for internal and external communication) Pearson. 2017.

2. Number of routers (wired /wireless)

- Wired connections are needed for software development work place and server connections to ensure high-speed and low-latency connectivity.
- Wireless Access Points (WAPs) will be strategically placed to provide seamless Wi-Fi coverage throughout all three floors.
- Estimated equipment:
 - Core routers (x2) for redundancy
 - Layer 3 switches for network segmentation and routing
 - Access layer switches for user device connectivity
 - Minimum 10-12 enterprise-grade WAPs per floor to maintain coverage and support device density McGraw-Hill. 2013.

3. Types of Cabling

- Cat 6A Ethernet cables for internal wired network to support up to 10 Gbps bandwidth, suitable for high-speed data transfer and future upgrades.
- Fiber optic backbone cabling between floors and the server room to ensure high-speed interconnectivity and reduce bottlenecks.

4. Special needs of department and Segmentation

- The LAN must support segmentation (VLANs) for different departments:
 - ❖ **Software Development**: High bandwidth, access to internal development servers, Git repositories, and cloud services.
 - ❖ Finance and HR: Encrypted data transmission, restricted access to sensitive financial and employee records.
 - Customer Support: VoIP connectivity and access to CRM systems.
 - ❖ Management Offices: Secure remote access, video conferencing, and executive dashboards.

Cisco Press, 2016.

5. Video Conferencing Capabilities

- Each of the four conference rooms will be equipped with:
 - High-end video conferencing systems
 - Support for 4K video quality and low-latency streaming
 - Dedicated bandwidth to ensure uninterrupted meetings
 - ❖ Integration with platforms like Zoom or Microsoft Teams Pearson. 2015.

6. CCTV Surveillance Systems

- CCTV cameras will be installed for security and monitoring:
 - Entry and exit points
 - Server room and IT storage areas
 - Common areas such as cafeteria and break rooms
- The network must provide PoE (Power over Ethernet) support for CCTV and remote monitoring capabilities.

O'Reilly Media, 2017.

B) <u>Analysis of Growth Plans, Scalability Requirements, and Network</u> Traffic:

1. Scalability for Number of Employees

- TechSavvy plans to scale from 150 to 300 employees, significantly increasing the demand on the network.
- To accommodate this:
 - The network must support high-speed connectivity, especially in open workspaces with many simultaneous users.
 - Backbone links and server room connections should be established using Fiber optics with 10 Gbps speeds, scalable to 40 Gbps as needed.
 - Access switches must support Gigabit ports per user and be stackable or modular to handle increased port requirements.
 - VLANs will be configured to reduce network congestion and ensure efficient traffic routing between departments.

2. Scalability for Number of Access Points (Wi-Fi Expansion)

- With more employees and a bring-your-own-device (BYOD) culture, the number of connected devices will increase exponentially.
- The network must:
 - Support Wi-Fi 6 access points, capable of high device density and better throughput.
 - ❖ Be designed with future expansion of APs in mind—from 10–12 per floor now, expandable to 20+ per floor as needed.
 - ❖ Ensure centralized wireless controller support to manage access points and ensure seamless coverage and handoffs between floors.
 - Use Power over Ethernet (PoE+) switches to simplify deployment and support future hardware upgrades.

Pearson, 2017.

3. Scalability with Respect to Network Speed

- As the company adopts more cloud-based services and handles larger data loads, bandwidth demands will increase.
- The network must be capable of:
 - Providing low-latency, high-throughput connections for services such as:
 - Video conferencing (Zoom, Teams)
 - VoIP communications
 - Cloud-hosted development environments
 - Large file transfers and backups

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- Implementing Quality of Service (QoS) policies to prioritize timesensitive traffic such as VoIP and video.
- Ensuring core network devices support multi-gigabit uplinks, with redundancy protocols like HSRP/VRRP for reliability.

Cisco Press, 2016.

Task 2 - Network Topology Diagram

a) Floor plan layout

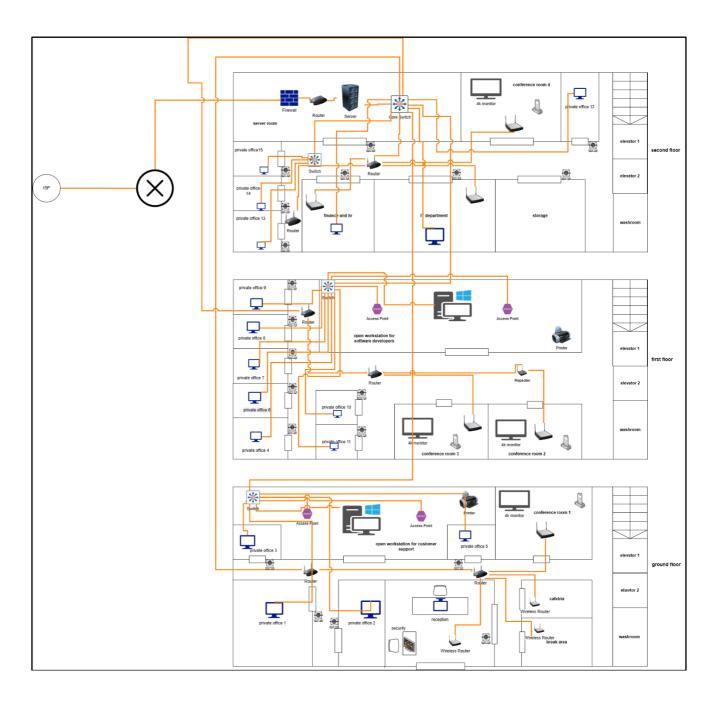


Fig 2.1 floor planning

Justification for floor plan:

Aspect	Justification		
Core	Switches are placed centrally on each floor to minimize cable		
Networking	distance and improve performance. Router and firewall are located		
Devices	near the server room for secure, high-speed internet access.		
Ground Floor	Open workspace for customer support, reception with security		
Layout	systems, cafeteria, and break room. Wireless routers ensure strong Wi-Fi coverage for flexible work.		
First Floor	Open workspace for software developers. Private offices and two		
Layout	conference rooms are wired for high-speed access. Access Points provide seamless Wi-Fi for high device density.		
Second Floor	Server room, IT support, finance, HR, and senior management		
Layout	offices located for easy management of sensitive systems and better security.		
Structured	Orange cabling for organized high-speed wired connections.		
Cabling	Redundant cabling between core switches prevents single points of failure.		
Wireless	Access Points are strategically placed across open areas and near		
Coverage	conference rooms to ensure full building Wi-Fi coverage.		
Security and	Biometric scans are present at reception, server room, private		
Surveillance	offices and storage areas for monitoring and physical security.		
High-Bandwidth	Conference rooms are wired for video conferencing and VoIP		
Support	services. Server room directly connected for low-latency		
	operations.		
Scalability	Switches and Access Points have capacity for additional users and		
	devices, supporting future growth to 300 employees without major redesign.		

Table 2.1 aspects

b) Network topology

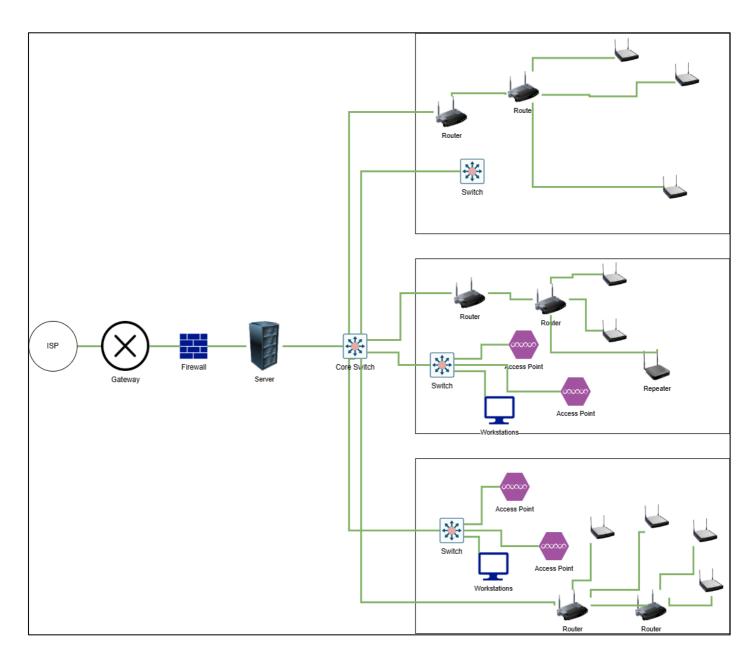


Fig 2.2: network topology diagram

Network Topology Discussion

Star Topology (Based on Layout)

In the above network diagram, a star topology is used. In a star topology, all devices are connected to a central device (like a switch or hub). In this case:

• The main switch acts as the central point.

- Routers, access points, servers, and workstations are all linked back to this main switch.
- The switch connects upstream to the gateway and server for internet access and data services.

Advantages of Star Topology:

- Easy to manage and troubleshoot: If one device fails, it does not affect the rest of the network.
- Scalability: New devices can be easily added without disrupting the network.
- Performance: Centralized management improves overall performance.

Disadvantages of Star Topology:

- Single point of failure: If the main switch or central node fails, the entire network is disrupted.
- Cable intensive: Requires more cabling compared to simpler topologies like bus networks.

Mesh Topology (An Alternative)

An alternative to star topology is the mesh topology.

In a mesh network, each device connects directly to multiple other devices, creating multiple paths for data transmission.

Advantages of Mesh Topology:

- High reliability and redundancy: If one connection fails, data can be rerouted through another path.
- High performance: Mesh networks handle heavy traffic well because multiple paths reduce congestion.
- Fault tolerance: Mesh design minimizes downtime.

Disadvantages of Mesh Topology:

- Complex setup: Installing and configuring a mesh network is complicated.
- High cost: Requires more cabling, more network interfaces, and more complex routing.
- Maintenance difficulty: Managing many connections becomes difficult as the network grows.

McGraw-Hill, 2013.

Final Thoughts:

While a mesh topology would offer better reliability and fault tolerance, it would significantly increase the cost and complexity of the network.

Given the size and structure of the current design, a star topology is more cost-effective, easier to manage, and suitable for the current needs. However, for future critical upgrades, especially where zero downtime is required, implementing elements of a partial mesh topology could be considered.

Task 3 - Equipment Selection and Specification - 20 marks

Select the necessary network equipment and provide detailed specifications.

- a) List all required networking equipment, including switches, routers, access points, cables and connectors. (10 marks)
- b) Justify your equipment choices based on performance, reliability and scalability. (10 marks)

Task 3 selection and specification

a) List of Required Networking Equipment and Specifications

Equipment	Model Example	Specification/Configuration Details	Purpose
Core Switch	Cisco Catalyst 9300 Series	 - 48 Gigabit Ethernet ports - 4 x 10G SFP+ uplink ports - Layer 3 capable - Support for VLANs, QoS, redundancy protocols (like HSRP) 	Acts as the main switch distributing traffic to floor switches and servers
Floor Switches (per floor)	Cisco Catalyst 9200 Series	- 24 Gigabit Ethernet ports- 2 x 10G uplink ports- Layer 2 managed switch- VLAN and trunking support	Connects workstations, routers, and access points per floor
Routers (Floor level)	Cisco ISR 1000 Series	Dual WAN ports1 Gbps throughputVPN supportIntegrated security features (firewall, IPS)	Manage traffic routing between different floors and provide secure internet access
Access Points	Cisco Aironet 2800 Series	 - Dual-band (2.4GHz and 5GHz) support - 802.11ac Wave 2 (Wi-Fi 5) - MU-MIMO for multiple device connections - 5.2 Gbps maximum throughput 	Provide wireless connectivity to mobile users and devices
Repeaters	TP-Link AC1750 Wi- Fi Range Extender	Dual-band Wi-Fi supportGigabit Ethernet port1750 Mbps wireless speed	Extend wireless coverage in large open areas or blind spots
Firewall/Gateway	Fortinet FortiGate 100F	10 Gbps firewall throughputIntrusion prevention system (IPS)Application control, anti-	Protect network from external threats and

		manage secure
		traffic flow
Dell	- Dual Intel Xeon processors	Hosts internal
PowerEdge	- 256GB RAM	services,
R740	- 10Gb Ethernet NIC	databases, and
	- Redundant power supply	applications
OM4	- 10 Gbps up to 550 meters	High-speed
Multimode	- LC/LC connectors	backbone from
Fiber	- Armored option for better	ISP to building
	protection	gateway and
		server room
Cat 6A	- Supports 10Gbps over 100	Connect
Ethernet	meters	desktops,
Cable	- Shielded Twisted Pair (STP)	printers, access
	for minimal interference	points, and other
	- RJ45 connectors	devices
		internally
48-Port Cat6	- Organized cable	Termination
Patch Panel		point for network
	- Labeling for easier	cables in server
	troubleshooting	and floor rooms
42U	- Cooling fans and cable	Houses core
Enclosed	management trays	switches,
Server Rack	, ,	servers,
		firewalls, patch
		panels neatly
	PowerEdge R740 OM4 Multimode Fiber Cat 6A Ethernet Cable 48-Port Cat6 Patch Panel	PowerEdge R740 - 256GB RAM - 10Gb Ethernet NIC - Redundant power supply OM4 - 10 Gbps up to 550 meters - LC/LC connectors - Armored option for better protection Cat 6A Ethernet Cable - Supports 10Gbps over 100 meters - Shielded Twisted Pair (STP) for minimal interference - RJ45 connectors 48-Port Cat6 Patch Panel - Organized cable management - Labeling for easier troubleshooting 42U - Cooling fans and cable management trays

Table 3.1: networking equipment

Cable Choices Justification:

Connection	Cable Type	Reason
ISP to Gateway and Gateway to Server Room	Fiber Optic (OM4)	Fiber optics support extremely high speeds (10 Gbps+), low latency, and long-distance transmissions without signal loss, critical for external and backbone connections.
Internal Networking (Workstations, Access Points, Printers)	Cat 6A Ethernet Cable	Cat 6A supports 10 Gbps over standard office distances (up to 100 meters), is shielded for interference protection, and is cost-effective for internal cabling compared to fiber.

Table 3.2: cable type

b) Create a table which justifies your items based on RSP

[Device	Performance	Reliability	Scalability

networks	1	1	1
Core Switch (Cisco Catalyst 9300)	High-speed switching with 10G uplinks, low latency	Enterprise-grade hardware with redundancy features (stacking, dual power)	Supports future expansion with additional switches and 10G backbones
Floor Switch (Cisco Catalyst 9200)	Gigabit speeds, VLAN and QoS capabilities	Stable operation with professional support and long MTBF (Mean Time Between Failures)	Can add more ports or stack switches as employee count grows
Router (Cisco ISR 1000)	Secure high-speed routing, optimized for WAN and VPN traffic	Integrated firewall, software updates for consistent protection	Supports modular upgrades and increased branch connections
Access Points (Cisco Aironet 2800)	High throughput (up to 5.2Gbps), excellent device handling with MU-MIMO	Business-grade wireless hardware with strong security and lifetime support options	Easy to add more APs as user/device density increases
Repeater (TP-Link AC1750)	Boosts Wi-Fi coverage without major cabling	Stable consumer- grade extender, suitable for low- traffic areas	Can add additional repeaters if blind spots appear
Firewall/Gateway (Fortinet FortiGate 100F)	10Gbps throughput, advanced threat protection, IPS, VPN support	High-availability (HA) options, regular firmware updates for security	Scales with network needs through licensing and clustering options
Server (Dell PowerEdge R740)	Dual processors, high memory and storage bandwidth	Enterprise reliability, RAID storage, redundant power for uptime	Modular upgrades for RAM, CPU, storage expansion
Fiber Optic Cables (OM4)	10Gbps+ speeds, immune to EMI (electromagnetic interference)	Very low signal loss, highly durable	Future-ready for even 40Gbps or 100Gbps upgrades if needed
Ethernet Cables (Cat 6A)	10Gbps speeds over 100m distance	Shielded cabling reduces cross-talk and network errors	Future-proof for 10G networking, beyond standard gigabit needs
Patch Panel	Keeps data center cabling organized and neat	Reduces wear on ports and simplifies maintenance	Easy to expand by adding more panels if needed
Network Racks	Efficient airflow and cooling improves performance	Physical security against unauthorized	Racks allow modular addition of more hardware

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		access, protects equipment	(servers, switches)

Table 3.3: items based on RSP

Task 4 - IP Addressing and Subnetting - 15 marks

Develop an IPv4 addressing scheme for the network.

- a) Create an IP addressing plan that supports efficient routing and management. (7 marks)
- b) Subnet the network to accommodate different departments and functions. (6 marks)
- c) Ensure the addressing scheme allows for future growth and scalability. (2 marks)

Task 4 – IP Addressing and Subnetting

a) IP Addressing Plan

Department/Function	Subnet	IP Range	Purpose
Management	192.168.130.0/25	192.168.130.1 –	Reserved for
		192.168.130.126	directors,
			managers, and
			admin team
IT Department	192.168.130.128/25	192.168.130.129 –	IT team, network
		192.168.130.254	admins, servers
Sales Department	192.168.131.0/25	192.168.131.1 –	Sales reps, CRM
		192.168.131.126	tools
HR Department	192.168.131.128/26	192.168.131.129 –	HR users and
		192.168.131.190	employee portal
Finance Department	192.168.131.192/26	192.168.131.193 –	Payroll servers
		192.168.131.254	and finance
			users
Guest WiFi / Visitors	192.168.132.0/24	192.168.132.1 –	Visitors and
		192.168.132.254	guest devices
Backup and Storage	192.168.133.0/25	192.168.133.1 –	Backup servers
		192.168.133.126	and storage
			systems
Future Expansion	192.168.133.128/25	192.168.133.129 –	Reserved for
		192.168.133.254	future
			departments

Table 4.1: IP address plans

b) **Subnetting Details**

Subnet	CIDR	Subnet Mask	Hosts per Subnet	Department/Use
192.168.130.0/25	/25	255.255.255.128	126 hosts	Management
192.168.130.128/25	/25	255.255.255.128	126 hosts	IT Department

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HOUVOING				
192.168.131.0/25	/25	255.255.255.128	126 hosts	Sales Department
192.168.131.128/26	/26	255.255.255.192	62 hosts	HR Department
192.168.131.192/26	/26	255.255.255.192	62 hosts	Finance Department
192.168.132.0/24	/24	255.255.255.0	254 hosts	Guest WiFi
192.168.133.0/25	/25	255.255.255.128	126 hosts	Backup and Storage
192.168.133.128/25	/25	255.255.255.128	126 hosts	Reserved for future
				growth

Table 4.2 subnetting

c) Future Growth and Scalability

- **Reserved Subnet**: 192.168.133.128/25 is kept fully free for adding new departments, servers, or additional users.
- Large Guest WiFi Subnet: 192.168.132.0/24 can accommodate many visitors without exhausting the IP pool.
- **Flexible Subnetting**: Departments with fewer users (like HR and Finance) use /26 subnets (smaller subnets) to avoid wastage of IP addresses.

Task 5 - Network Security Design - 15 marks

Design the security infrastructure for the network.

- a) Identify potential security threats and vulnerabilities. (7 marks)
- b) Design a security plan that includes security features, tools and controls as appropriate. Provide a justification for your controls. (8 marks)

Task 5 security design

a) Identify Potential Security Threats and Vulnerabilities

I. . What is a Threat?

A **threat** is any **potential danger** that can exploit a weakness (vulnerability) in a system to cause harm — such as **data theft**, **disruption**, **or unauthorized access**.

II. What is a Vulnerability?

A **vulnerability** is a **weakness** or **gap** in a system's defenses that could be exploited by a threat to gain unauthorized access or cause damage.

Example: Weak passwords, outdated firewalls, unsecured WiFi.

III. Goals of Network Security

The three main goals of network security are:

Goal	Purpose
Confidentiality	Keep data private and accessible only to authorized users.
Integrity	Ensure data is not altered or tampered with.
Availability	Keep network and resources available to legitimate users when
	needed.

Table 5.1: network security goals

IV. Types of threats

Туре	Example	Explanation
Unauthorized	Employees accessing	Insider threats or weak access
Access	confidential files without	control measures.
	permission	
Malware and	Virus infections via email or	Malware can corrupt files, steal
Viruses	USB	data, or crash systems.
Denial of Service	Server flooding with fake	Causes services to be
(DoS)	traffic	unavailable for real users.
Data Breaches	Data packets intercepted or	Due to weak network encryption
	leaked	or firewall misconfigurations.
Phishing and	Fake emails to steal	Exploits human error rather than
Social Engineering	passwords	system flaws.

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Unsecured	BYOD (Bring Your Own	Devices without security
Endpoints	Device)	measures can introduce
	· ·	vulnerabilities.
Weak Network	Lack of logging/alerts	Leads to delayed detection of
Monitoring		attacks.

Table 5.2: types of threats

b) <u>Design a Security Plan that includes Security Features, Tools, and Controls</u>

Here's a strong, realistic plan you can use:

Security Feature / Tool	Description	Justification
Firewall	Blocks unauthorized traffic	Protects against external
	between internal network	attacks by filtering
	and external networks.	network traffic.
Intrusion Detection and	Monitors traffic for suspicious	Early detection and
Prevention System	activities and blocks them.	stopping of potential
(IDPS)		breaches.
Antivirus and	Protects devices from	Ensures all endpoints are
Antimalware Software	viruses, trojans,	secure from malicious
	ransomware, and spyware.	software.
Virtual Private Network	Secure, encrypted	Protects data
(VPN)	connection for remote users.	transmission over
		untrusted networks.
Multi-Factor	Requires two or more	Stronger access control,
Authentication (MFA)	verification steps (password	reduces risk of account
	+ OTP, fingerprint).	compromise.
Network Segmentation	Divides network into sections	Limits spread of an attack;
	(e.g., Admin, HR, Guest	better traffic control and
	WiFi).	monitoring.
Regular Security	Systematic updating of OS,	Fixes known
Updates and Patches	software, and firmware.	vulnerabilities quickly,
		reducing attack surface.
Security Policies and	Guidelines for safe password	Reduces human errors,
Employee Training	use, email handling, etc.	the most common cause
		of breaches.

Table 5.3: security tools

Task 6 - Network Management and Monitoring - 10 marks

Outline the management and monitoring strategies for the network.

- a) Identify tools and software for network monitoring and performance analysis. (6 marks)
- b) Explain how you will ensure network reliability and uptime. (4 marks)

Task 6 – Network Management and Monitoring

a) <u>Identify Tools and Software for Network Monitoring and Performance Analysis</u>

Here's a list of important tools you can mention:

Tool / Software	Purpose	Why it's Important
SolarWinds Network	Monitors network devices,	Provides real-time visibility
Performance Monitor	bandwidth usage, and alerts	and quick issue detection.
(NPM)	for issues.	
Paessler PRTG Network	Monitors uptime, traffic, and	Easy to set up and gives
Monitor	network health with sensors.	detailed monitoring of all
		devices.
Wireshark	Analyzes network packets to	Useful for deep packet
	detect problems and security	analysis to troubleshoot
	issues.	faults.
Nagios	Monitors servers, switches,	Highly customizable and
	applications, and services.	scalable monitoring
		system.
ManageEngine	Monitors server health,	Good for medium-large
OpManager	network bandwidth, and	networks needing visual
	traffic patterns.	insights.
Zabbix	Open-source tool for	Cost-effective solution with
	monitoring networks,	strong alerting capabilities.
	systems, and apps.	

Table 6.1: software and its purpose

b) Explain How You Will Ensure Network Reliability and Uptime

Here's how you can answer this clearly:

Strategy	Description	Justification
Fault Tolerance	Use of redundant network paths,	Ensures the network keeps
Features	redundant switches/routers	running even if one device
	(failover systems).	fails.

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Regular Backups of	Configuration backups for	Enables quick recovery in
Networking Devices	routers, switches, firewalls saved	case of device failure or
	periodically.	corruption.
Safeguarding	Implement strong authentication,	Protects the network from
Against	firewalls, access control lists	internal and external attacks
Unauthorized	(ACLs), encryption (SSL/TLS).	that could cause downtime.
Access		
Monitoring and	Regular health checks using	Detects issues early to
Proactive	monitoring tools and predictive	prevent unexpected network
Maintenance	maintenance schedules.	outages.

Table 6.2 strategy

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- 1. Kurose, James F., and Keith W. Ross. Computer Networking: A Top-Down Approach. 7th ed., Pearson, 2017.
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- 8. Forouzan, Behrouz A. Data Communications and Networking. 5th ed., McGraw-Hill, 2013.

Candidate checklist

Please use the following checklist to ensure that yo	our work is ready for submission.
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Have you read the NCC Education document <i>Academic Misconduct Policy</i> and ensured that you have acknowledged all the sources that you have used in your work?	
Have you completed the <i>Statement and Confirmation of Own Work</i> form and attached it to your assignment? You must do this.	
Have you ensured that your work has not gone over or under the recommended word count by more than 10%?	
Have you ensured that your work does not contain viruses and can be run directly?	