COIT13236 – Cyber Security Project

**KN University Network Design**

1. **Network Management Plan**

Group 02

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# Network Management Plan

**Network Management Plan:**

A Network Management Plan is an essential report intended to guarantee the effective management and maintenance of an association's network framework. For a university, this plan expects to ensure smooth network activity, upgrade execution, and resolve issues promptly to support academic and administrative functions.

A screenshot of a computer

Description automatically generated

**Fig: Network Management Plan**

The network management organisation for KN University is depicted in the diagram, along with the methods for network upkeep and monitoring. This organisation aids KN University in maintaining a dependable and secure network by making sure that modifications are carefully handled and that problems are promptly resolved.

**Components:**

**Network Configuration Management:**

Documentation: Keep up with up-to-date network diagrams and configuration files.

Version Control: Use version control frameworks for managing configuration changes.

**Network Monitoring and Alerts:**

Tools: Utilize network management tools to screen network wellbeing and performance i.e., Cisco, Wireshark etc.

Cautions: Set up computerized alarms for network issues or failures.

**Incident Management:**

Incident Response: Develop methodology or process for responding to network incidents and blackouts.

Troubleshooting: Implement standard troubleshooting processes to rapidly determine issues.

**Change Management:**

Approval Process: Lay out a conventional cycle for approving and recording network changes.

Testing: Test changes in a staging environment prior to conveying them to creation.

**Performance Reporting:**

Reports: Produce standard reports on network performance, usage, and incidents.

Review: Direct intermittent reviews to evaluate network performance and recognize areas for development.

# References

Cisco (2024) Network Management Best Practices. Available at: https://www.cisco.com/c/en/us/solutions/enterprise-networks/network-management.html (Accessed: 2 August 2024).