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**Globex Corp Network System Upgrade**



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# Executive Summary

Our report objective is ,Globex company network that will be upgrade according to company requirement. The company main objective is to ,upgrade network that will address the reliable and secure VPN network and best suited topology is a mesh topology.

The Globex Corporation needed to upgrade the current network system , since the current network system does not meet the company current requirements therefore company decided to hired the network design company that will upgrade their network system .After the study and analysis to design a new network for them they hired our Virtucon Pty Ltd team. The objective of the project is to upgrade the network system. Our aim is to address the requirement for a secure and reliable network structure by designing a new network for Globex’s sites: Wagga Wagga , Griffith, and Albury.

The main aim of the project is to upgrade the network structure. Our aim is to address the requirement for a reliable network structure by designing an network for Globex’s offices: Griffith, Wagga Wagga and Albury. Globex Company main objective is enable easy and secure access services to the clients of the company, therefore they are going to upgrade the current system Our plan for the upgradation of the network is to host a cloud server. There are numerous companies those are providing cloud services given below

1)AWS,

2)Azure

3)Google Cloud services

# Business Requirement

**Globex System Problem**

The current network system of Globex offices are not interconnected to each other and not supported many users. The Globex network system having problems regarding the data storage as they have not enough space for data storage and have no backup plans. The security of Globex Network System not well planned hence during the transaction of data may be goes wrong hand or may be lost. The company current network pose risk to the company's data integrity, reduces ability to deliver services on time and affect the efficiency. The current network is not efficient the machine fleet monitoring. The hacker may be hack the current network system and hack the information as the current system is not interconnected to each other therefore Globex Network System increases the unavailability of services when one office site server is down . Since current system having no data recovery plan, so that increase the chances loss of data and vulnerable to attack.

# Functional and Non Functional Requirement

The company current network pose risk to the company's as given below

1) Data integrity

2) Reduces ability to deliver services on time

3)Affect the efficiency.

The current network is not efficient the machine fleet monitoring. Since the current network structure not meet the security standards, that probability of hacking the system is increase. The company would be trouble to recover after that disaster if any disaster will occur due to there is no plan for data recovery plan and system. Since company not offering any assurance or quality of services then clients would unsubscribe from the company. Our goal for project is all the existing problems will be identified.

# Technical Requirement

Our company propose the new system would be remove all the deficiencies from the existing network system therefore company network would improve security, speed, communication and availability of network system . Our proposal is for the protection from external attack Firewall will be best option. Our plan is all locations would interlink to from WAN, each site will be configure to support failover ; that is one location server will down that will not affect to services will be redirected to another location server

Cloud Services is part of solution . Cloud storage service implementation is a solution of data storage services , Cloud storage is a portable data services that will increase or decrease the services according to company requirement and reduce the endanger the network system . Since cloud data storage therefore it will be work as solution of data backup hence this will help to recover the data after a system crash or disaster. This will ensure to employees and clients accounts ensure the confidentiality and integrity of data will maintain

According to company requirement our proposal would require secure backups plan therefore we will purchase a Secured Backup Plan. The Globex specification is we would use any cloud provider from given below:

1. AWS
2. Azure
3. Google Cloud
4. A combination of any.

We ensure that permissions will grant to relevant departments or users to access relevant data and that data being stored will be safe from malware. We will reach out to our objective this by given below

1) We will set the firewalls

2) We will manage the User accounts

3)We will Install the updated antivirus protection software to all computers in Globex network

We ensure that relevant data would be access by relevant users using their login ,password.

We ensure that all data being stored will be protect from malware.

# Technology Requirement

We will reach out to our objective this by setting up firewalls, user accounts and installing updated antivirus protection software to all the computers in the network.

We will reach to our objective this by setting up firewalls, user accounts and installing updated antivirus protection software to all the computers in the network. We will use VPNs Network that will ensure data will be securely during the data transfer over the internet .

To achieve the objective or goal we will designed the network, included 9 servers and three client PCs. The main server will located at Wagga Wagga site. All the servers and client pcs would be secure and connect successfully.

We would focus on communication one of the most important aspects in Globex Company.

The effective communication following are incorporated in the network upgrade:

1) VoIP will be used for video conferences

Secured Communication will achieve with the help of following as:

i)Ensuring malware would be kept off the system, old or ghost accounts will inactive

ii) The users will be trained on security.

## **Technical Description for the Globex Company**

In this section we define about the designing of Globex company. Our proposal is we will require to design the 9 servers. The server design is most important part of any network system therefore we need a proper strategy for design the servers as per Globex company requirement.

Main file Server is Wagga Wagga site.

We will cluster two servers File1 and File2 .We willdesign servers given below

1. globex.com ,
2. wagga.globex.com
3. Griffith.globex.com
4. the Albury site
5. the Griffith site

We will design the backups servers given below

1. Wagga Wagga site
2. Albury.globex.com
3. Backup file server Albury site

This server will automatically up and running in case of a disaster and main server goes down.

We will develop a backups plan that will play a major role in disaster recovery.

The file1 server will responsible for daily backups and file2 server will responsible for weekly backup. These backups would be saved in a virtual disk and it will be access by file2 server.

We would create two node servers (file1 and file2) as a node along with domain controller(globex.com) that will be work at the time of disaster Our requirement , examine will all internet traffic for all sites and provides us alerts administrator to high or critical treats. This above requirement will be solve with the help of IDS therefore will install Cisco Catalyst 6500 Enhanced 3-Slot Chassis IDS device in each server in Wagga Wagga, Albury and Griffith. The device Costs $2,586.18

# Conclusion

In this project, Our endeavor to provide the best network plan for Globex company therefore we consider the best output that is fully equip Globex requirement. Since we have researched the Globex company network requirement we help out create a best network that would provide the best service to clients of Globex company therefore company will growth rapidly.

Since the challenge is ensure that the client expectations can met therefore we gave the importance to client request and provided an excellent network proposal between sites .This propose network provides given below facilitates that leads to efficient and secure network

1)IDs

2) File server,

3)Disaster recovery system,

4)Backup system

5) Intranet

6) VoIP

7)an virtual private network.

This proposal is designed after numerous research and the knowledge we got from the lecturer.

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