You are ask to develop a long term information strategy to ensure that decisions made today will not impede progress in the future. Your philosophy is to approach all issues with a long term view even when decisions have to be made under short term pressure.

**Case Study 1**

"Our client relocated their manufacturing facility and administration departments to separate sites. They required new network infrastructure to enable secure access to shared information."

**Solution Components:**

Network access is a critical component of any organization’s network infrastructure. Administrators have to dynamically enable and control network access for employees, vendors, business partners, and entire branch offices that are in a variety of physical locations and that are using many different types of devices. Enabling network access, while maintaining security, is an enormous challenge for administrators. You can use the Microsoft Windows Server 2003 operating system to implement a comprehensive network access solution that can include the following variety of technologies:

* Secure access to wireless local area networks (WLANs)
* Secure remote access to intranets over the Internet
* Services that provide centralized network connection authentication, authorization, and accounting
* Tools and services that support the creation and distribution of components to manage secure client-side network access

**Network Components**

* 802.11 wireless

Provide secure wireless networking that allows you to extend your core network infrastructure to roaming wireless clients.

* Virtual private networks (VPNs)

Enables remote offices to securely connect to each other so that they can share resources and information over the Internet.

* Internet Authentication Service (IAS)

Performs centralized authentication, authorization, auditing, and accounting of users who are connecting to a wireless or wired local area network (LAN), using a remote access connection to connect to a private intranet.

* Connection Manager

To create and distribute customized remote access client connections, called service profiles.

**Servers -** **HP Proliant Servers**

Allow administrators to increase application performance, and free up resources to focus on business innovation.

**Licences (Software-Sever)**

* Microsoft Windows Server 2008 Open Licences
* Microsoft Exchange Server 2007 Open Licences
* Microsoft Forefront Threat Management Gateway Open Licences

**Backup Solution - Symantec Backup Solution**

To help business gain control of their network environments, Symantec backup solution provide consistent, reliable protection of your system and date while simplifying backup and recovery tasks.

**Case Study 2**

"You were asked to design, plan and implement an upgrade to a client’s existing IT network infrastructure. The client had a number of desktop and laptops connected in an unstructured peer to peer network."

**Solution Components:**

Replace existing server and desktop hardware which was operating to its capacity. Microsoft Small Business Server 2011 was installed on the Fileserver to provide the required functionality. New desktop hardware and software was supplied and set up to ensure the full benefits of the new server were achieved by all users.

**Server -** **HP Proliant Servers**

Allow administrators to increase application performance, and free up resources to focus on business innovation.

**Licences (Software-Sever-Client)**

Servers are the backbone of your business. To minimize downtime and to ensure peak performance of your website and services, constant monitoring of your server infrastructure and your [data center](https://www.paessler.com/data-center-monitoring) is vital.  
By tracking the uptime, [health](https://www.paessler.com/server-health-monitoring) and[performance](https://www.paessler.com/server_performance_monitoring) of your servers, you can prevent outages and identify bandwidth hogs. In addition, you are laying the foundation for delivering a great service to your customers, through a fast-loading and constantly available website.

**Backup Solution**

Before you upgrade, you need to back up all the information and applications on your original PC. Upgrading without first backing up all of your file and your system as a whole can lead to data loss. Unexpected PC crashes could damage or even delete your files, so you should back up everything before you upgrade.

**Firewall Solution**

Maintenance windows are precious. When it comes to upgrade you firewall appliance or add another inline security too, It can help you minimise the time spent configuring a resilient path for those upgrades. Using the bypass switch in tap mode, traffic can still flow in your live network while also being replicated to the IPS or other inline security tool. It can now easily placed in line with no further network disruption.

**Desktops and Laptops**

Replace existing server and desktop hardware which was operating to its capacity.

**Operating System**

Upgrading your software allows your computer to benefits from additional protection. Ensuring your system has been latest defensive solutions help limit the threat posed by malware and hackers.

Enjoy new versions, Keep the computer working, receive vendor support, and Pay nothing for upgrades.

**Application Software**

Security Vulnerabilities, Better Functionality, Squashing Bugs