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OXFORD CAMBRIDGE AND RSA EXAMINATIONS

Monday 18 January 2021 – Morning

Level 3 Cambridge Technical in IT

05839/05840/05841/05842/05877

Unit 3: Cyber security

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INSTRUCTIONS

Do not send this Insert for marking. Keep it in the centre or recycle it.

INFORMATION

This Insert contains the pre-release material that you have already seen.

STEVENSON RESEARCH

Introduction

Stevenson Research is a research company, who specialise in the areas of artificial intelligence and robotics. They work on both private and government contracts.

Network Setup

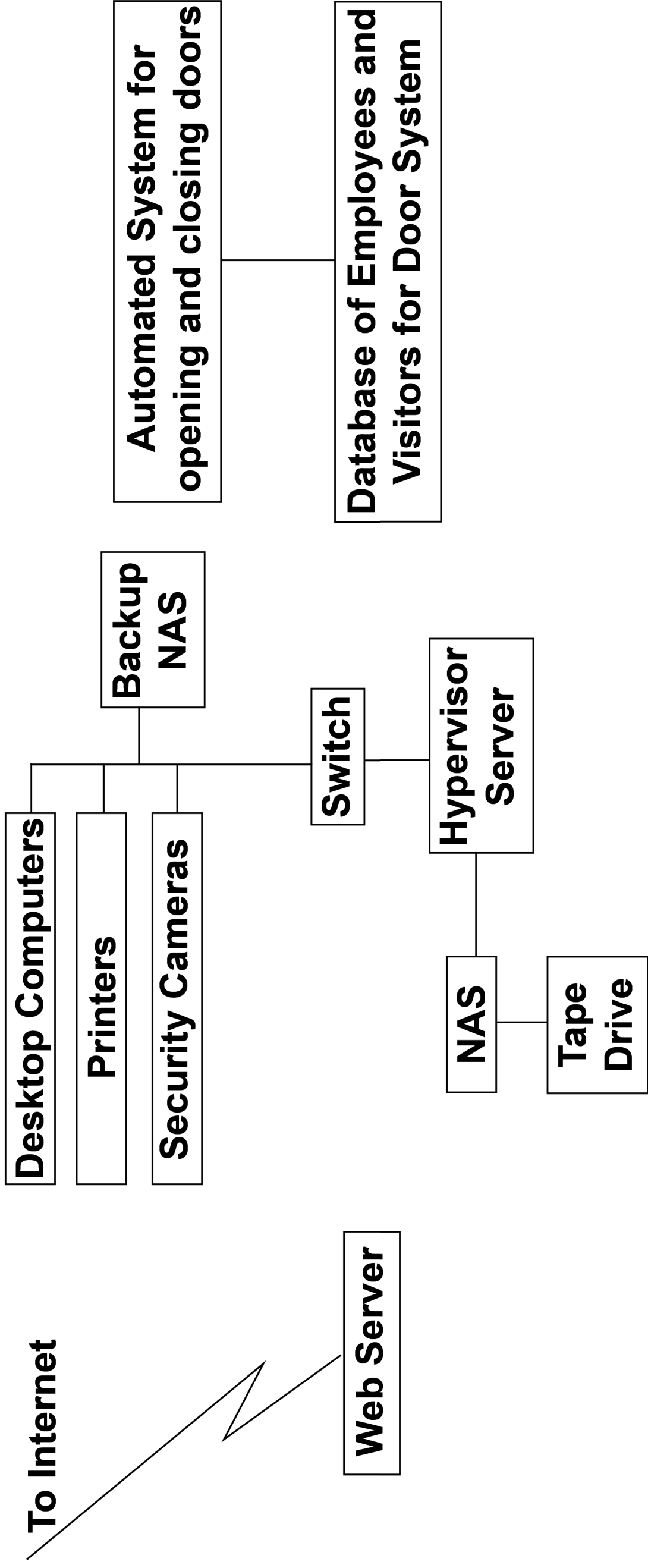
The network contains three different components:

Main network

The company website

Door management system.

The end users have access to desktop computers and printers – all of which are hard wired. There are security cameras throughout the building.



Notes:

The web server has connections to the internal network.

The door management system is a standalone system with employee and visitor details manually entered into the database.

Employees and visitors are given ID cards which will automatically open the doors to the areas they have authorised access to.

The hypervisor server contains file server, mail server, print server and applications server.

An incremental tape backup is completed every week and stored in an off-site fireproof safe.

Mobile phones and laptops are not allowed in the building and there are no Wi-Fi connections available.

DIRECTOR OF CYBER SECURITY

Stevenson Research has recently appointed a Director of Cyber Security.

The responsibilities of the Director of Cyber Security include:

Production of policies and procedures

Day-to-day management of cyber security

Risk management

Identification of different threats to the network and how to mitigate these threats

Implementation of different measures to identify vulnerabilities in the network.

FURTHER RESEARCH

To prepare for the examination, you should research the following themes:

The different types of data stored by Stevenson Research and their importance.

Different types of cyber security threats that Stevenson Research may be subjected to.

Different types of attacker, their characteristics and motivations for attacking Stevenson Research.

The impact of a cyber security incident on Stevenson Research.

Justification for the different methods of mitigating risk.

The use of different types of detection systems.

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