

CPSC 4360 Computer Security Project

1 PROJECT DESCRIPTION

In this project, you will design, specify and implement a security plan to protect a fictitious organization. The organization is described in the block below, and then a more detailed description of the system you need to protect is provided. Use the Cyber System Security Plan Template (available on Blackboard) to document your policy and implementation. You will later be given access to the company system to implement your policy.

2 DESCRIPTION OF TROJAN BRICKS, INC.

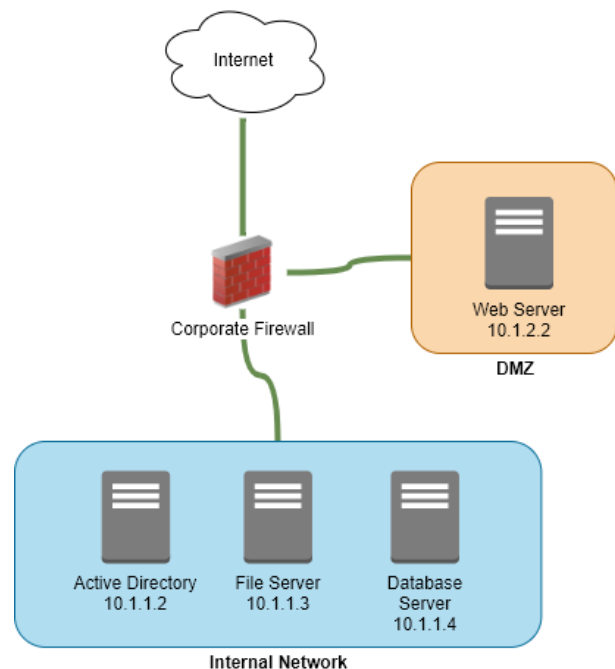
Trojan Bricks, Inc. was formed in 1990 to provide cheap, interlocking building block toys for children and adults of all ages. They are a publicly traded company headquartered in Little Rock, Arkansas and employ approximately 100 employees. Their primary product is the Trojan Bricks toy line sold in multiple theme-based packages. They are looking to expand into robotics and plan to launch their first Netflix series this Fall.

3 SYSTEM DESCRIPTION

The system comprises of a single Internet facing web server from which all marketing and purchases take place. The web server has a back end mysql database (i.e. Database Server). An Active Directory server is used to manage all employee and contractor accounts, and a file server exists for sharing documents throughout the company. A network diagram is shown below.

There are 5 departments at Trojan Bricks:

1. **Executive staff** - Overall responsibility for leading the company
 - a. Lola Wolfe is President and CEO
 - b. Johnnie Lewis is the Executive Assistant
2. **Engineering** - Design and Engineering for the Toy Brick line
 - a. Jon Brown is the Chief Operating Officer
 - b. Jenny Mcdaniel is the Senior Engineer
3. **Accounting** - Responsible for all financials within the company



- a. Marcus Sherman is the CFO
 - b. Kim Curry is an Accountant
- 4. **Marketing** -
 - a. Harold Blair is Chief Marketing Officer
 - b. Frankie Casey is the VP of Design
- 5. **Human Resources**
 - a. Jim Turn is VP of Human Resources
 - b. Chris Vargas is a Recruiter

The Senior Staff includes the CEO, CFO, COO and CMO.

There are several consultants as well:

- **ITWorks!** - A local IT Consulting Firm on contract to manage all of their IT needs
- **Evolution** - An International product design and marketing firm to assist with new products and marketing strategies
- **Tom's Heating and Cooling** - A local HVAC repair monitoring company

The backend database contains the following tables:

- **Products** - A listing of products and the price for each product
- **Customers** - A list of registered customers
- **Orders** - Orders per customer and product

The file share contains the following department folders:

- **Accounting** - Shared folder for accounting documents and other financials. The Accounting department should have full privileges and it needs to be read accessible to Senior Staff.
- **Board Documents** - Used for preparing and recording board level documents. Only the Executive Staff should have full privileges. Senior Staff needs read privileges.
- **Engineering and Design** - Product design documents. Engineering needs to have full privileges
- **Human Resources** - Employment related documents. Only HR needs to have full privileges. This may contain privacy related data about employees, contractors and job applicants.
- **Marketing** - Product marketing design files and promotional materials. Marketing should have full privileges and Senior Staff may have read only permissions.
- **User Shares** - Each employee has their own file share for which only they should have full privileges.

4 THREAT PROFILE

The cybersecurity threat profile for Trojan Bricks is the same as any other small to mid-sized company, which includes a high probability of generic phishing attempts, business email compromise and ransomware attacks. Recent downsizing and employee turnover have created a higher risk for insider threat, and the company has started hiring more local outside contractors.

Trojan Bricks has a very large overseas competitor trying to shut down their operation and gain a competitive edge in the local market. In particular, the new Netflix series launch could receive unfavorable attention from their competitors