2014 ISU Cyber Defense Competition

Scenario

IOWA STATE UNIVERSITY, INFORMATION ASSURANCE CENTER

Fall 2014

Welcome!

I am Robert Commit of Cache, Daemon, & Commit, Attorneys at Law. We are pleased to welcome you to the Information Technology division of one of the premier law firms of Iowa since 1912. You will be a valuable addition to the long line of dedicated men and women who have helped thousands of people with legal affairs over the past century.

You are joining the company in our new information technology team to provide the services that our lawyers and clients need to be productive and efficient. Your duties will include maintaining our existing servers and adding desired capabilities. We have a long tradition in providing the very best and hope you will take our value of excellence to heart.

An integral part of our company is protecting and safeguarding our clients' privacy. We have many cases that are not known publicly and we must protect client confidentiality. At the same time, we must maintain excellent records for auditing purposes. These two goals drive our need for safe, secure, and comprehensive systems.

Below I have attached a list of our servers and systems and what services they must provide. It includes your duties as a member of the Information Technology team of Cache, Daemon, & Commit. Make sure to read it carefully and understand everything that you need to provide.

We hope you enjoy your time at Cache, Daemon, & Commit!

Robert Commit
Partner, Cache, Daemon & Commit, Attorneys at Law

Users

There are six employees at Cache, Daemon, & Commit. All passwords may be found in IScorE on the Dashboard under "Team Specific Information". Their cases and roles are listed below.

First name	Last name	Username	Role	Case(s)
Robert	Commit	rcommit	Lawyer	Negligence
Henry	Cache	hcache	Lawyer	Tax Evasion

Philip	Daemon	pdaemon	Lawyer	Divorce
Jeevana	Mittal	jmittal	Paralegal	Tax Evasion
Jiawei	Sun	jsun	Paralegal	Negligence
Patrick	Van Standt	pstandt	Administrator	None

Flags

The Negligence flag needs to be accessible from multiple servers. It should be placed in its folder on the FTP server (ftp.teamN.isucdc.com). The users that need access to those case files should be able to view the files in those folders through the web interface on the file server and through the website at www.teamN.isucdc.com. The flags should also be backed up with the other files.

DNS

DNS will be provided for you and will be controlled via IScorE (https://iscore.iseage.org). You must enter in the external IP addresses of your servers into IScorE under DNS Records.

Other

- Cache Daemon Commit has funds for up to three new servers, one of which will be the new RDP server. There is a strict 6 server limit.
- The administrator, Patrick Van Standt, must have remote administrator access on all servers, either through SSH or Remote Desktop.

Corporate Webserver (www.teamN.isucdc.com) [Provided]

Default Username: root
Default Password: cdc

Our CentOS webserver hosts our corporate website. The website was created with a front-end of Angular JS and a back-end of PHP and MySQL. There are three main features of the website. The first is the company and lawyer profiles which are open to the public. Lawyers and other company employees have access to the second section which is the cases list. The last section is the information about each case including a portal to upload and download files. The files will be stored on the file server located at ftp.teamN.isucdc.com. Each lawyer should only be able to view the files relating to the cases on which he is working (listed above). Unfortunately, we do not have the resources to rebuild the server from scratch and have no desire to leave CentOS.

Required Access
- All employees should be able to upload and download files

Required Services
- Website on port 80
- SSH on port 22 for administrator

Flag Locations
- /usr/share/nginx/html
- /root/

Notes:
- You cannot migrate from this server
- You need to modify *file* to reflect your team's file server hostname

FTP Server (ftp.teamN.isucdc.com) [Provided]

Default Username: root
Default Password: cdc

We have an FTP file server that employees that can use to upload and download

case-related files. Each case will have a separate folder. Inside each case folder, there will be a folder labelled "evidence". All files on this folder must be available through the web-based interface on www.teamN.isucdc.com. Flags must be accessible through the web-based interface and FTP to the lawyers working on the case. We are very happy with our current server and do not have the resources to rebuild it from scratch.

Required Services
- FTP access over port 21 (or other port with permission)
- SSH on port 22 for administrator
- Must be available via web interface on corporate web site

Flag Locations
- /share/negligence
- /root/

RDP Server (rdp.teamN.isucdc.com)
This is a new server which you will be creating from scratch.

The engineers need a Windows remote desktop server for file storage and as a secure computer for work. They must be able to access the server remotely using WIndows and Linux Remote Desktop. The following programs must be installed and available to all employees:
- Google Chrome
- Mozilla Firefox
- PuTTY
- FileZilla
- Adobe Reader
- LibreOffice

Note: you can use the website https://ninite.com to automate the installation of these programs.

Required Services
- Remote Desktop over port 3389 for all employees
- Must be compatible with rdesktop running on Linux

Flag Locations
- C:\Users\Administrator\

Backup Server (backup.teamN.isucdc.com) [Provided]

Default Username: root
Default Password: cdc

We have an existing server that backups all our files stored in the case folders on ftp.teamN.isucdc.com. This server must backup files at least every half-hour. This is currently done using rsync.

Required Services
- Backups at least every half-hour
- SSH on port 22 for administrator

Flag Locations
- /root

Help Desk Server (help.teamN.isucdc.com) [Vendor Product]

We have hired a reputable tech company to make a chat server. This chat server will be used by Green Team for tech support with your services. This chat server is available at https://download.iseage.org/chat-bundle.tar.gz. To install, extract the chat-bundle.tar.gz and follow the directions in the README file. You are free to use this chat server or create your own but you must provide a real-time chat service for Green Team. It can be hosted on any server but must be accessible to Green Team at help.teamN.isucdc.com. If you use the provided chat bundle, nginx and Java are required. This will be your only direct form of communication with Green Team, so please submit thorough Green documentation for this service.

Required Services
- Chat over port 80