Figure 1: Example CCDC Network

Note: Every CCDC event has a different network structure, the above is merely an example of what a CCDC network might look like.

Appendix A: Sample Injects

Injects are essentially business tasks ranging from the very simple to the very complex. Though you may see some similarities, each CCDC event uses a different set of injects and they may be delivered to your team in a slightly different way between competitions – some events may hand you a piece of paper, some events may email them to you, others post them on a website. Regardless of delivery method every inject will have tasks and objectives and the more complex an inject is, the more points it is probably worth. In this appendix we've provided two sample injects from past CCDC events.

Sample Inject #1

From: Philip Carson

To: IT Staff

CC: Stephen Gearheart, Milburn Lauffer, Jannine Paul

Subject: New Printer

We just received an HP 2300 network capable printer and we need it setup and working on the LAN in the next 45 minutes. Please set it up so that anyone in the company can print to it (all servers and workstations). You should have the printer in your area already.

Thanks,

Philip

Discussion of Sample Inject #1
This inject is asking you to take an HP2300 laser printer, set it up as your network printer, and then make sure that EVERY system in your team network can print to it in the next 45 minutes. To accomplish this task, your team would need connect the printer to your internal network, assign it an IP address, and then setup each server and workstation to print to that HP2300. When injects say things like "all servers and

workstations" they mean every single server and workstation regardless of operating system – don't assume if a server is Solaris or Linux based it won't need to print and neglect to set up printing capability on those systems. To get full points for this inject you need to make sure every system can print. When an inject like this is scored, White Team members will attempt to print from one of more systems in your team network – you may get partial points if 2 of 3 systems that were tested print or you may get no points at all as the inject required you to setup ALL systems. This type of inject is testing your team's ability to move quickly (you only have 45 minutes) and solve a technical issue.

Sample Inject #2

From: Philip Carson

To: IT Staff

CC: Stephen Gearhart, Adam Waverly, Jannine Paul

Subject: Public FTP Site Launch

Folks,

As part of our continuing mission to provide better IT services for our customers and our employees, Grand Chasm is launching a public/private FTP site. I need you to stand up an FTP service on Stingray with a public side (that allows anonymous access) and a private side (that only allows Grand Chasm employees to access it). Please place the files on the accompanying CD on the FTP site (there's a folder called public and one called private). Put the public files right at the top level of the FTP service so visitors can see them immediately when they login. Please create a DNS entry as well so users can access ftp.grandchasm.com as well as 10.X.X.10 and get to our FTP site. We will be placing some Grand Chasm files out there, so make sure all the employees can access the private side. I suspect most users will be using standard FTP clients to get to this site. Anyway, we need this up by start of business tomorrow and then it needs to remain up indefinitely (or until you hear otherwise).

Thanks,

Philip

Discussion of Sample Inject #2

This inject is asking you to setup an FTP site with a public side and a private side and indicates there is a CD containing files for both side of the FTP site. You are also being asked to create a DNS entry called ftp.grandchasm.com linked to a specific IP address in your team network. You should notice a few things about this inject:

1. The FTP service should be installed on a server called "Stingray". In some cases injects will specify what platforms you need to update/change/modify and in others you will be free to choose. When an inject specifies a server, as it does in this case, that's where you should be installing the new FTP service. If you've made changes to your network that make it difficult to complete the inject, it's your responsibility as a team to let the White Team know as soon as you get an inject like this – they may allow you to install the FTP service on a different system or may tell you to do the best you can given your current circumstances. But you need to speak up as soon as you get the inject! Don't wait until the inject is being scored or time is up.

2. It does not specify what FTP server application you should use. In this case you are free to choose a product that you are familiar with and will work on the operating system of the system where you install the FTP service.

3. There are files that need to be placed in specific locations – some on the top level of the public side and some on the private side.

4. The inject tells you that employees will be accessing the private side – they'll need userids and passwords to do this. If you have a single sign-on solution in place, you're all set – otherwise you'll need to make sure all the employees in your "company" have access to the FTP site.

5. Once established, the FTP service needs to stay up and running for the rest of the competition. This can indicate that the FTP service will become a critical service in the near future (scored by the scoring engine) or could indicate this inject will be scored more than once to ensure the service remains active.

When an inject like this is scored, it is typically done both internally and externally. In other words, White Team members inside your team room will score part of it (the employee access portion for example) and White Team members outside your room will score part of it (remote, public access).