2017 Southeast Collegiate Cyber Defense Qualification Competition (SECCDQC)

Team Packet

February 25, 2017
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Southeast CCDC Mission and Objectives

The Southeast Collegiate Cyber Defense Qualifying Competition (SECCDC) provides an opportunity for qualified educational institutions in the Southeast to compete as part of the national CCDC organization (see www.nationalccdc.org) to provide a unified approach across nine regions of the country. Qualified educational institutions include those with information assurance or computer security curricula. The Southeast Collegiate Cyber Defense Competition is designed to provide a controlled competitive environment that will permit each participating institution to assess their students’ depth of understanding and operational competency in managing the challenges inherent in protecting an enterprise network infrastructure and business information systems.

Qualification Overview
The Southeast Collegiate Cyber Defence Qualification Competition (SECCDQC) is coordinated by the KSU Coles Center for Information Security Education (CISE), and operated using infrastructure and resources provided by the Center for Systems Security and Information Assurance (CSSIA) at Moraine Valley Community College. The competition is designed to test each student team’s ability to secure a networked computer system while maintaining standard business functionality. The scenario involves team members simulating a group of employees from an IT service company that will initiate administration of an IT infrastructure. The teams are expected to manage the computer network, keep it operational, and prevent unauthorized access. Each team will be expected to maintain and provide public services: a web site, a secure web site, an email server, a database server, an online curriculum server, and workstations used by simulated sales, marketing, and research staff as per company policy and mission. Each team will start the competition with a set of identically configured systems.

The objective of the competition is to measure a team’s ability to maintain secure computer network operations in a simulated business environment. This is not just a technical competition, but also one built upon the foundation of business operations, policy, and procedures. A technical success that adversely impacts the business operation will result in a lower score as will a business success which results in security weaknesses. Student teams will be scored on the basis of their ability to detect and respond to outside threats, including cyber-attack while maintaining availability of existing network services such as mail servers and web servers, respond to business requests such as the addition or removal of additional services, and balance security against varying business needs.

The top eight (8) qualifying teams from the 2017 SECCDQC will have the opportunity to participate in the 2017 Southeast Regional CCDC (SECCDC), April 6 & 7, 2017, at Kennesaw State University.

Competition Goals

1. To promote fair and equitable standards for cyber defense and technology based competitions that can be recognized by industry
2. To evaluate the defensive and responsive skills of each team under exact hardware, software application, and operating system configurations using a joint academic and industry rating scale
3. To demonstrate the effectiveness of each participating institution’s academic security program
4. To be executed by a preponderance of industry professionals
5. To have industry recognition, participation and acceptance of each competition
6. To rate the effectiveness of each competition against a predefined standard of competition rules
7. To provide a cooperative and competitive atmosphere among industry partners and academia in the area of cyber defense education
8. To provide recognition for participating teams
9. To increase public awareness of academic and industry efforts in the area of cyber defense education

**Competition Team Structure**

- **Blue Team** – A student team representing a specific academic institution or major campus competing in this competition; each team must submit a roster of up to 12 competitors to the Competition director. Each competition team may consist of up to eight (8) members chosen from the submitted roster. The remainder of the roster is for substitution in the event a member of the active competition team cannot compete. Substitution in the competition team requires approval from the Competition Director – Dr. Whitman.
  - Members and advisor sign a participation safety agreement if teams compete anywhere other than their academic institution
  - Members and advisor sign a photo release document where applicable
  - have completed a minimum of one semester in the participating institution’s networking or security curriculum
  - Students should maintain a full time status at the time the competition is conducted.
  - National and SECCDC Regional rules apply; [www.nationalccdc.org](http://www.nationalccdc.org)

- **Red Team** – Professional network penetration testers from industry selected by the competition director
  - Scan and map the network of each competition team
  - Attempt to penetrate the defensive capabilities of each Blue Team network and modify any acquired environment
  - Assess the security of each Blue Team network
  - Attempt to capture specific files on targeted devices of each Blue Team network
  - Attempt to leave specific files on targeted devices of each Blue Team network
  - Follow rules of engagement for the competition

- **White Team** – Representatives from industry who serve as competition judges, remote site judges, room monitors and security enforcement in the various competition rooms.
  - Each team competing remotely from their academic institution must have a remote site judge on site, present during most active times of the competition.
  - Judges will assess the competition team’s ability to maintain their network and service availability based upon a business inject and a scoring instrument, delivering inject scenarios, scoring of injects, creating log entries, securing log files, issuing or controlling the timing of injects, etc. White Team members
present in the competition room will assist judges by observing teams, confirming proper inject completion, report issues, and assure compliance of rules and guidelines.

- **Gold Team** – Comprised of the Competition Director, the host site Chief Administrator, as well as representatives from industry and academia who make up the administration team both in planning and during the exercises. Responsibilities include, but are not limited to,
  - Administration and staffing of the cyber defense competition
  - Works with industry partners to orchestrate the event
  - Has the authority to dismiss any team, team member, or visitor for violation of competition rules, inappropriate or unprofessional conduct
  - Makes provision for awards and recognition
  - Manages debrief to teams subsequent to the conclusion of the competition
  - Serves as the final authority on scoring decisions or issues relating to equity or fairness of events or activities
  - Cannot be from any institution that has a competing Blue team or have any interest in any team outcome
  - Ideally, should be a representative from industry or law enforcement
  - Final authority of all judging decisions, including assessment of final scores and winners of the competition

- **Black Team** – Tech support and hospitality – assists with any technical needs necessary to maintain the integrity of the competition. Assists with ancillary functions – greeters, food service, local directions.
Prelim Practice

The week before the competition teams will get the opportunity to familiarize themselves with the competition NetLab+ and competition systems from **6am-11pm**, based on the following schedule. Teams should not confuse their email account team number (team##@seccdc.org) with their myvlab1 account number (team1 to team12). These are different systems. On the myvlab1 system, as explained elsewhere in this document, the team has 8 accounts for users 1 – 8 – so team 1 has v1u1 (team 1 user 1) through v1u8 (team 1 user 8).

Teams are permitted to log into any and all systems assigned to them in their myvlab1 session. A complete list of usernames and passwords are provided elsewhere in this document. Teams may access the systems anytime from 6am to 11pm on their assigned day, and for as long as they wish to become familiarized with the systems. **Any team caught logging into another team’s session/date will be disqualified.**

If a team has issues with accessing the systems during their practice sessions, they should contact the host Director – Dr. David Durkee at 440-488-0331.

**Tuesday, Feb 21** – Teams scheduled for Session 1 (8am) will be able to access the myvlab1 system and all integral competition systems. Teams are assigned to the following accounts:

<table>
<thead>
<tr>
<th>Institution/Team</th>
<th>Prelim Start Time 25-Feb</th>
<th>Prelim Email username (@seccdc.org)</th>
<th>Prelim myvlab1 Team # &amp; usernames</th>
</tr>
</thead>
<tbody>
<tr>
<td>03) Charleston Southern Univ.</td>
<td>8:00 AM</td>
<td>team3</td>
<td>Team 1: v1u1…v1u8</td>
</tr>
<tr>
<td>04) Univ. of West Florida</td>
<td>8:00 AM</td>
<td>team4</td>
<td>Team 2: v2u1…v2u8</td>
</tr>
<tr>
<td>05) Valencia College</td>
<td>8:00 AM</td>
<td>team5</td>
<td>Team 3: v3u1…v3u8</td>
</tr>
<tr>
<td>07) Florida State Univ.</td>
<td>8:00 AM</td>
<td>team7</td>
<td>Team 4: v4u1…v4u8</td>
</tr>
<tr>
<td>08) Univ. of Florida</td>
<td>8:00 AM</td>
<td>team8</td>
<td>Team 5: v5u1…v5u8</td>
</tr>
<tr>
<td>09) ECPI Univ. (Charleston)</td>
<td>8:00 AM</td>
<td>team9</td>
<td>Team 6: v6u1…v6u8</td>
</tr>
<tr>
<td>10) Montreat College</td>
<td>8:00 AM</td>
<td>team10</td>
<td>Team 7: v7u1…v7u8</td>
</tr>
<tr>
<td>19) Columbus State Univ.</td>
<td>8:00 AM</td>
<td>team19</td>
<td>Team 8: v8u1…v8u8</td>
</tr>
<tr>
<td>23) Gwinnett Tech. College</td>
<td>8:00 AM</td>
<td>team23</td>
<td>Team 9: v9u1…v9u8</td>
</tr>
<tr>
<td>26) SC State Univ.</td>
<td>8:00 AM</td>
<td>team26</td>
<td>Team 10: v10u1…v10u8</td>
</tr>
<tr>
<td>32) Georgia Gwinnett College</td>
<td>8:00 AM</td>
<td>team32</td>
<td>Team 11: v11u1…v11u8</td>
</tr>
</tbody>
</table>

The myvlab1 password for Tues, Feb 21 will be **password256**.
**Wednesday, Feb 22** – Teams scheduled for Session 2 (12 pm) will be able to access the myvlab1 system and all integral competition systems. Teams are assigned to the following accounts:

<table>
<thead>
<tr>
<th>Institution/Team</th>
<th>Prelim Start Time 25-Feb</th>
<th>Prelim Email username (@seccdc.org)</th>
<th>Prelim myvlab1 Team # &amp; usernames</th>
</tr>
</thead>
<tbody>
<tr>
<td>01) Kennesaw State Univ.</td>
<td>12:00 PM</td>
<td>team1</td>
<td>Team 1: v1u1…v1u8</td>
</tr>
<tr>
<td>02) Univ. of Central Florida</td>
<td>12:00 PM</td>
<td>team2</td>
<td>Team 2: v2u1…v2u8</td>
</tr>
<tr>
<td>11) Univ. of South Florida</td>
<td>12:00 PM</td>
<td>team11</td>
<td>Team 3: v3u1…v3u8</td>
</tr>
<tr>
<td>12) UNC-Wilmington</td>
<td>12:00 PM</td>
<td>team12</td>
<td>Team 4: v4u1…v4u8</td>
</tr>
<tr>
<td>14) Univ. of South Carolina</td>
<td>12:00 PM</td>
<td>team14</td>
<td>Team 5: v5u1…v5u8</td>
</tr>
<tr>
<td>15) Univ. of Alabama</td>
<td>12:00 PM</td>
<td>team15</td>
<td>Team 6: v6u1…v6u8</td>
</tr>
<tr>
<td>16) Augusta Univ.</td>
<td>12:00 PM</td>
<td>team16</td>
<td>Team 7: v7u1…v7u8</td>
</tr>
<tr>
<td>17) Tennessee Tech. Univ.</td>
<td>12:00 PM</td>
<td>team17</td>
<td>Team 8: v8u1…v8u8</td>
</tr>
<tr>
<td>18) College of Charleston</td>
<td>12:00 PM</td>
<td>team18</td>
<td>Team 9: v9u1…v9u8</td>
</tr>
<tr>
<td>24) Univ. of South Alabama</td>
<td>12:00 PM</td>
<td>team24</td>
<td>Team 10: v10u1…v10u8</td>
</tr>
<tr>
<td>31) Lipscomb Univ.</td>
<td>12:00 PM</td>
<td>team31</td>
<td>Team 11: v11u1…v11u8</td>
</tr>
</tbody>
</table>

The myvlab1 password for Weds, Feb 22 will be **password354**.
**Thursday, Feb 23** – Teams scheduled for Session 3 (4 pm) will be able to access the myvlab1 system and all integral competition systems. Teams are assigned to the following accounts:

<table>
<thead>
<tr>
<th>Institution/Team</th>
<th>Prelim Start Time 25-Feb</th>
<th>Prelim Email username (@seccdc.org)</th>
<th>Prelim myvlab1 Team # &amp; usernames</th>
</tr>
</thead>
<tbody>
<tr>
<td>06) Mercer Univ.</td>
<td>4:00 PM</td>
<td>team6</td>
<td>Team 1: v1u1…v1u8</td>
</tr>
<tr>
<td>13) UNC-Charlotte</td>
<td>4:00 PM</td>
<td>team13</td>
<td>Team 2: v2u1…v2u8</td>
</tr>
<tr>
<td>20) Austin Peay State Univ.</td>
<td>4:00 PM</td>
<td>team20</td>
<td>Team 3: v3u1…v3u8</td>
</tr>
<tr>
<td>21) Clemson Univ.</td>
<td>4:00 PM</td>
<td>team21</td>
<td>Team 4: v4u1…v4u8</td>
</tr>
<tr>
<td>22) Albany State Univ.</td>
<td>4:00 PM</td>
<td>team22</td>
<td>Team 5: v5u1…v5u8</td>
</tr>
<tr>
<td>25) NC A&amp;T State Univ.</td>
<td>4:00 PM</td>
<td>team25</td>
<td>Team 6: v6u1…v6u8</td>
</tr>
<tr>
<td>27) Middle Georgia State Univ.</td>
<td>4:00 PM</td>
<td>team27</td>
<td>Team 7: v7u1…v7u8</td>
</tr>
<tr>
<td>28) The Citadel</td>
<td>4:00 PM</td>
<td>team28</td>
<td>Team 8: v8u1…v8u8</td>
</tr>
<tr>
<td>29) Claflin Univ.</td>
<td>4:00 PM</td>
<td>team29</td>
<td>Team 9: v9u1…v9u8</td>
</tr>
<tr>
<td>30) Univ. of North Florida</td>
<td>4:00 PM</td>
<td>team30</td>
<td>Team 10: v10u1…v10u8</td>
</tr>
<tr>
<td>33) Univ. of North Georgia</td>
<td>4:00 PM</td>
<td>team33</td>
<td>Team 11: v11u1…v11u8</td>
</tr>
</tbody>
</table>

The myvlab1 password for Thurs Feb 23 will be **password462**.
Schedule – all times EST

Feb 21, 2017  SECCDC Qualifier Session 1 Practice
6am-11pm  Session 1 teams allowed to log into myvlab1 to familiarize themselves with the systems.

Feb 22, 2017  SECCDC Qualifier Session 2 Practice
6am-11pm  Session 2 teams allowed to log into myvlab1 to familiarize themselves with the systems.

Feb 23, 2017  SECCDC Qualifier Session 3 Practice
6am-11pm  Session 3 teams allowed to log into myvlab1 to familiarize themselves with the systems.

Feb 24, 2017  WEBEX with Dr. Durkee on systems operations during the prelim
Times TBD  Teams invited to attend one of two WEBEX sessions to see how the competition systems will be deployed during the actual prelim. Important for teams to attend one of the two sessions. Details to be provided.

Feb 25, 2017  SECCDC Qualifier Session 1
8am  Teams arrive at their competition rooms
     Welcome Inject Released; teams login to ccdcadm1.morainevalley.edu
9am  Drop Flag – myvlab1 access inject released  (this will provide credentials to access the competition systems)
9am-12pm  Active Scoring

Feb 25, 2017  SECCDC Qualifier Session 2
12pm  Teams arrive at their competition rooms
     Welcome Inject Released; teams login to ccdcadm2.morainevalley.edu
1pm  Drop Flag – myvlab1 access inject released  (this will provide credentials to access the competition systems)
1-4pm  Active Scoring

Feb 25, 2017  SECCDC Qualifier Session 3
4pm  Teams arrive at their competition rooms
     Welcome Inject Released; teams login to ccdcadm1.morainevalley.edu, or ccdcadm3.morainevalley.edu – look for specific directions
5pm  Drop Flag – myvlab1 access inject released  (this will provide credentials to access the competition systems)
5pm-8pm  Active Scoring

For combined state events, teams should be careful to take note of time zone differences.
Initial Connection & the Start Flag

Using a NETLAB™ powered Cyber Stadium to compete is simple and straightforward. There are two separate systems that are used which interact to provide the services and communication necessary to meet the goals of the CCDC.

**System 1 - ISE (Inject Scoring System)/Team Portal** - This system is totally separate from the competition environment and is used by Blue Teams to display current services, as viewed by the indigenous scoring engine, communicate to the White Team, and receive notifications.

*NOTE: THIS SYSTEM WILL NOT BE USED FOR INJECTIONS - ONLY COMPETITION SUPPORT (TROUBLE TICKETS/SERVICE STATUS), AND ISSUING CREDENTIALS FOR THE COMPETITION SYSTEMS*

This system is accessed via a browser,

```
ccdcadmin1.morainevalley.edu
```

Note that CSSIA supports additional ISE/Team Portals,

```
ccdcadmin2.morainevalley.edu
ccdcadmin3.morainevalley.edu
ccdcadmin4.morainevalley.edu
```

Follow the instructions from your competition manager for the specific ISE/Team Portal that will be used for your CCDC Qualifier.
Students should login to the ISE first to initiate communication with the competition judges. There is one account per team that may be used to connect to the ISE where multiple logins using the same account is permissible. The accounts are, team1, team2, team3, ........

The team password required to access the ISE is distributed, along with team assignment, by a competition manager prior to the scheduled start of the competition. When first connecting to the ISE, a member of the team should check for an initial inject task, usually identified as “Welcome” or something similar. The task simply requests a response back to the competition judges, signaling that access to the ISE has been successful, and that the responding team is ready to compete.

At the same time the team must email operations@seccdc.org using the competition email system to indicate they are online and ready to compete.

Once the competition judges have verified that all teams are ready to compete, or have provided ample time to respond, the competition judges will release a second inject, providing the team password (applicable to all accounts for a particular team) required to access, System 2 - The NETLAB™ / myVLAB Competition Stadium system used to access and manage the competition network. This too is accessed via a browser, myvlab1.morainevalley.edu

Client requirements for the Blue Team workstations must conform to NDG guidelines. See, http://www.netdevgroup.com/products/requirements/

Generally, the client requirements are easily met with simple browser and java plug-in. The bandwidth requirement is 256 kb/s up and down per client minimum. Ports 80, 2201 must be allowed outbound. A 10 Mb/s minimum synchronous service is recommended.

It is the responsibility of each participating school to assure that client requirements are met, and that proper internet service is provided.
Experience has shown that access problems may persist even though nominal client requirements are met. Certain combinations of OS/browser/java work better than others. Teams should experiment during times provided ahead of the competition to "tune" their clients for optimal operation, and assure that their local network properly supports the NETLAB+™ environment.

For more guidance towards addressing connectivity issues to the myVLAB environment, see the Appendix - Addressing Access Problems to NETLAB+™ Systems, at the end of this document.

There are eight accounts per team that may be used to connect to the Cyber Competition Stadium. For team1 they are,

v1u1, v1u2, v1u3, ...., v1u8

Accounts for other teams follow the same pattern. For team2 the accounts are,

v2u1, ....

Once authenticated you will be asked to change your password and confirm a few details regarding your profile. Remember your new password! Subsequently you should see a lab reservation for your competition network, similar to the following:
Each team member can click on 'ENTER LAB' for their respective lab/pod reservation to gain access to their competition network. The competition network topology, shown later in this document, should be clearly visible. Access individual VMs simply by clicking on them.

**Network & Team Site Description**

- Each competition network will be located remotely from the competition site and will be logically isolated from all other competing Blue Teams. All Teams will access the competition network via a browser connection.
- Each competition network will therefore be physically and logically isolated from the hosting organization’s network.
- Each competing Blue Team will be provided a set of workstations at a host site that are logically and physically isolated from other Blue Teams in order to access respective remote competition networks via the internet. Alternatively, Blue Teams may compete from their own institution, in which case their institution must provide workstations in conformance with aforementioned requirements. Blue Teams competing from their own institution must do so from a dedicated, secure location where all team members are collocated together with the local site judge. Classrooms or conference rooms are considered ideal locations. The secure location is to have restricted access to only Blue Team members, remote site judges, local administrators and technical support. Competition workstations and servers are able to access the internet.
- The White Team and each respective Blue Team will communicate with each other via a trouble ticket and response application, the ISE/Team Portal, residing at Moraine Valley Community College.
- Red Team activity may be either externally or internally sourced with respect to the remote competition network. At no time will the Red Team have access outside the remote NETLAB+™ environment.
- Each Blue Team network will be monitored by a scoring system operating within the remote network. An indication of services, as viewed by the indigenous scoring engine, will be made available to each Blue Team via the ISE/Team Portal.
- A logical diagram of the team logical network is contained within this Team Packet. However, it is subject to change and/or modification as decided by the Competition Manager.
**Competition Systems**

1. Each team will start the competition with identically configured systems.
2. Teams may not add or remove any computer, printer, or networking device from the designated competition area.
3. This document provides the overall system architecture, network configuration, and initial set-up of the competition.
4. Teams should not assume any competition system is properly functioning or secure.
5. Throughout the competition, Green Team and White Team members will occasionally need access to a team’s systems for scoring, troubleshooting, etc. Teams must allow Green Team and White Team member access when requested.
6. Network traffic generators may be used throughout the competition to generate traffic on each team’s network. Traffic generators may generate typical user traffic as well as suspicious or potentially malicious traffic from random source IP addresses throughout the competition.
7. Teams must maintain specific services on the “public” IP addresses assigned to their team and stipulated by this document. Moving services from one public IP to another is not permitted unless directed to do so by an inject. Likewise, teams are not permitted to change the internal addressing or VLAN scheme of the competition network unless directed to do so by an inject.
8. Teams may re-task servers, moving a service from one server to another as long as the outside “public” IP address of the service remains the same. It is the responsibility of the team to understand all the particulars of scoring a service when doing so.
9. Teams are not permitted to alter the system names or IP address of their assigned systems unless directed by an inject; this may affect the results of the scoring mechanism.
10. In the event of system lock or failure, teams will be able to perform a complete restoration from within the administration console of the remote system. This will reset any system to its initial starting configuration. The number of system restorations will be tracked and negatively impact scores at the discretion of the White Team. Teams should also consider that system restoration will take time.
11. Systems designated as user workstations within the competition network are to be treated as user workstations and may not be re-tasked for any other purpose by teams.
12. Teams may not modify the hardware configurations of workstations used to access the competition network.
13. Servers and networking equipment may be re-tasked or reconfigured as needed.
Teams have access to 8 VMs – 6 serves, 1 workstation, and the Palo Alto firewall.

All servers, workstations, and Palo Alto firewall, except IOT, are virtual machines under the management of NETLAB™.

IOT, Internet of Things, is a Raspberry Pi hardware appliance loaded with Asterix/Linux FreePBX, and is not directly accessible via NETLAB™.

Teams may access IOT/Raspberry Pi via ssh or Web login.

Teams do not have access to the underlying layer 2 switch.

The firewall shown in the topology is a Palo Alto VM, version 6.0.7, which is licensed by Palo Alto.

You can access the Palo Alto VM either directly, which yields a command window, or via a browser 172.20.241.100 from any of the LAN VMs.
admin/changeme

Note that this is different from the default username/password that you may have used in an MSEC+ pod.

- Each team has the following Palo Alto internal addresses:

  LAN, e1/1  172.20.241.254/24
  DMZ, e1/2  172.20.240.254/24

- Core IP addresses are the following:

<table>
<thead>
<tr>
<th>Team</th>
<th>Palo Alto e1/3 Outbound to Core</th>
<th>Core connection to Palo Alto</th>
<th>&quot;Public&quot; IP pool</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>172.31.21.2/29</td>
<td>172.31.21.1</td>
<td>172.25.21.0/24</td>
</tr>
<tr>
<td>2</td>
<td>172.31.22.2/29</td>
<td>172.31.22.1</td>
<td>172.25.22.0/24</td>
</tr>
<tr>
<td>3</td>
<td>172.31.23.2/29</td>
<td>172.31.23.1</td>
<td>172.25.23.0/24</td>
</tr>
<tr>
<td>4</td>
<td>172.31.24.2/29</td>
<td>172.31.24.1</td>
<td>172.25.24.0/24</td>
</tr>
<tr>
<td>5</td>
<td>172.31.25.2/29</td>
<td>172.31.25.1</td>
<td>172.25.25.0/24</td>
</tr>
<tr>
<td>6</td>
<td>172.31.26.2/29</td>
<td>172.31.26.1</td>
<td>172.25.26.0/24</td>
</tr>
<tr>
<td>7</td>
<td>172.31.27.2/29</td>
<td>172.31.27.1</td>
<td>172.25.27.0/24</td>
</tr>
<tr>
<td>8</td>
<td>172.31.28.2/29</td>
<td>172.31.28.1</td>
<td>172.25.28.0/24</td>
</tr>
<tr>
<td>9</td>
<td>172.31.29.2/29</td>
<td>172.31.29.1</td>
<td>172.25.29.0/24</td>
</tr>
<tr>
<td>10</td>
<td>172.31.30.2/29</td>
<td>172.31.30.1</td>
<td>172.25.30.0/24</td>
</tr>
<tr>
<td>11</td>
<td>172.31.31.2/29</td>
<td>172.31.31.1</td>
<td>172.25.31.0/24</td>
</tr>
<tr>
<td>12</td>
<td>172.31.32.2/29</td>
<td>172.31.32.1</td>
<td>172.25.32.0/24</td>
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</table>

- Services provided by the servers in the topology are expected to have the same last octet of the IP address for internal and external “Public”.

<table>
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<tr>
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<th>172.25.20+team#.23</th>
<th>root</th>
<th>changeme</th>
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<td>Email</td>
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<td>Web Apps</td>
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<td>172.25.team#.3</td>
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<td>AD/DNS</td>
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<tr>
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<td></td>
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<td>PBX</td>
<td>DHCP</td>
<td>NA</td>
<td>admin (FreePBX)</td>
<td>root (ssh)</td>
</tr>
<tr>
<td></td>
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<td></td>
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<td>admin</td>
<td>raspberry</td>
</tr>
</tbody>
</table>

This table, minus the ‘public’ translations is accessible on the topology tab of NETLAB+™, via the “Show Lab Content” on the lower right.
Competition Rules

Notes:
- These rules reflect the National CCDC Rules committee review of all rules, and are effective as of the date of this packet.
- SECCDC Specific rules are clearly marked and prefaced with SECCDC.
- SECCDQC (Qualification) competition rules are clearly marked and prefaced with SECCDQC.

Introduction
The following Rules apply to institutions competing in the Southeast Collegiate Cyber Defense Competition and are based on, and reflect changes made to, the National Collegiate Cyber Defense Competition as of December 1, 2016. Updates will be provided as available.
All institution teams, including student competitors and university representatives, must comply with these rules. Failure to do so can result in penalties ranging from points against the team, individual or team disqualification, individual or team expulsion, individual or team suspension or banishment from future competitions, to law enforcement involvement.
All individuals associated with the competition must sign a compliance agreement and disclosure waiver prior to being allowed to attend the competition.
Areas where the SECCDC rules differ from the National CCDC rules are highlighted in italics. Some rules are duplicated for emphasis.

The following are the approved national rules for the 2017 CCDC season, in use for the 2017 season. Please refer to the official rules for your specific CCDC event for any local variations.
Throughout these rules, the following terms are used:
- Gold Team/Operations Team - competition officials that organize, run, and manage the competition.
- White Team - competition officials that observe team performance in their competition area and evaluate team performance and rule compliance. (SECCDC: a.k.a. Room Judges)
- Red Team - penetration testing professionals simulating external hackers attempting to gain unauthorized access to competition teams’ systems.
- Black Team - competition support members that provide technical support, pick-up and deliver communications, and provide overall administrative support to the competition.
- Blue Team/Competition Team - the institution competitive teams consisting of students competing in a CCDC event.
- Team Captain - a student member of the Blue Team identified as the primary liaison between the Blue Team and the White Team.
- Team Co-Captain - a student member of the Blue Team identified as the secondary or backup liaison between the Blue Team and the White Team, should the Team Captain be unavailable (i.e. not in the competition room).
- Team representatives - a faculty or staff representative of the Blue Team’s host institution responsible for serving as a liaison between competition officials and the Blue Team’s institution.
1. Competitor Eligibility
   a. Competitors in CCDC events must be full-time students of the institution they are representing.
      i. Team members must qualify as full-time students as defined by the institution they are attending.
      ii. Individual competitors may participate in CCDC events for a maximum of five seasons. A CCDC season is defined as the period of time between the start of the first state event and the completion of the National CCDC event. Participation on a team in any CCDC event during a given season counts as participation for that entire season.
      iii. A competitor in their final semester prior to graduation is exempt from the full-time student requirement and may compete in CCDC events as a part-time student provided the competitor has a demonstrated record of full-time attendance for the previous semester or quarter.
      iv. If a team member competes in a qualifying, state, or regional CCDC event and graduates before the next CCDC event in the same season, that team member will be allowed to continue to compete at CCDC events during the same season should their team win and advance to the next round of competition.
   b. Competitors may only be a member of one team per CCDC season.
   c. A team member may not participate in any role at CCDC events held outside the region in which their team competes during the same CCDC season.
   d. Individuals who have participated in previous CCDC events in any role other than as a competitor must obtain eligibility approval from the director of the region in which their team competes prior to being added to the team roster. Once a candidate’s eligibility has been approved they will remain eligible for all CCDC events during the same season.

2. Composition
   a. Each team must submit a roster of up to 12 competitors to the competition director of the first CCDC event they participate in during a given CCDC competition season. Rosters must be submitted at least two weeks prior to the start of that event. All competitors on the roster must meet all stated eligibility requirements. No changes to the team roster will be permitted after the team competes in their first CCDC event. The competition team must be chosen from the submitted roster. A competition team is defined as the group of individuals competing in a CCDC event.
      i. **SECCDQC/SECCDC Supplemental Rule:** Final team rosters are due to the SECCDC Competition organizers at least 72 hours prior to the start of the SECCDQC (the Virtual Prequalification Competition), however changes may be WITHIN the roster up through the start of the competition, and between events as needed. Local Room Judges information must be provided by the date specified in the Call for Teams.
   b. Each competition team may consist of up to eight (8) members chosen from the submitted roster.
   c. Each competition team may have no more than two (2) graduate students as team members.
   d. If the member of a competition team advancing to a qualifying, state, regional,
or national competition is unable to attend that competition, that team may substitute another student from the roster in their place prior to the start of that competition.

e. Once a CCDC event has begun, a team must complete the competition with the team that started the competition. Substitutions, additions, or removals of team members are prohibited except for extreme circumstances.
   1. Team Representatives must petition the Competition Director in writing for the right to perform a change to the competition team.
   2. The Competition Director must approve any substitutions or additions prior to those actions occurring.

f. Teams or team members arriving after an event’s official start time, for reasons beyond their control, may be allowed to join the competition provided a substitution has not already been made. Event coordinators will review the reason for tardiness and make the final determination.

g. Each team will designate a Team Captain for the duration of the competition to act as the team liaison between the competition staff and the teams before and during the competition. In the event of the Team Captain’s absence, teams must have an identified team liaison serving as the captain in the competition space at all times during competition hours.
   1. SECCDQC/SECCDC Supplemental Rule: During a competition, only the Team Captain, or in the Captain’s absence the Co-Captain, may interact with the White Team, unless a team member has specifically been approached by the White Team. All correspondence, questions or issues must follow this chain of command Team Captain (or Co-Captain) to White Team to Gold Team/Operations. Violation of this chain of command MAY result in a points penalty against the competition team.
   2. SECCDQC/SECCDC Supplemental Rule: All questions regarding the competition organization, its systems and operations, including responses to competition injections, should be addressed to the competition organization’s chief information officer. Questions regarding the competition or its rules should be addressed to competition officials. Violation of this separation of duties MAY result in a points penalty against the competition team.

h. An institution is only allowed to compete one team in any CCDC event or season.

3. **Team Representatives**
   a. Each team must have at least one representative present at every CCDC event. The representative must be a faculty or staff member of the institution the team is representing.
   b. Once a CCDC event has started, representatives may not coach, assist, or advise their team until the completion of that event (including overnight hours for multi-day competitions).
   c. Representatives may not enter their team’s competition space during any CCDC event.
   d. Representatives must not interfere with any other competing team.
   e. The representative, or any non-team member, must not discuss any aspect of the competition event, specifically event injections, configurations, operations,
team performance or red team functions, with their team during CCDC competition hours and must not attempt to influence their team’s performance in any way.
i. **SECCDC Supplemental Rule:** The institutional representative must remain in the area designated during competition hours. Should the institutional representative need to leave the competition area, they must ensure that they notify the operations center and leave a contact number in case of emergencies.

4. **Competition Conduct**
a. Throughout the competition, Operations and White Team members will occasionally need access to a team’s system(s) for scoring, troubleshooting, etc. Teams must immediately allow Operations and White Team members’ access when requested.
   i. **SECCDC Supplemental Rule:** For technical support, such as a system reset, Black team members will require access to systems. These individuals will only be allowed access if accompanied or specifically authorized by a Gold Team/Operations or White Team member.
   ii. **SECCDQC Supplemental Rule:** For the qualification competition, the local judge may inspect all systems for rules compliance at any time before, during or after the competition.

b. Teams must not connect any devices or peripherals to the competition network unless specifically authorized to do so by Operations or White Team members.
   i. **SECCDC Supplemental Rule:** If a competition team is provided with supplemental equipment in the competition room, and that equipment is specifically designated as support for the team’s competition efforts, it is preauthorized for connection to the competition network and systems (e.g. USB hard drive, flash drive, printer).
   ii. **SECCDQC Supplemental Rule:** For the qualification competition, the host institution may stage replacement equipment in the competition rooms. This equipment cannot be used until authorized by SECCDC competition officials, after the team reports a systems failure and has made every effort to recover the initial equipment. Once authorized, the local judge will supervise the installation of replacement equipment, and inspect it for unauthorized materials prior to allowing it to be used by the local team.

   c. Teams may not modify the hardware configurations of competition systems. Teams must not open the case of any server, printer, PC, monitor, KVM, router, switch, firewall, or any other piece of equipment used during the competition. All hardware related questions and issues should be referred to the White Team.

   d. Teams may not remove any item from the competition area unless specifically authorized to do so by Operations or White Team members including items brought into the team areas at the start of the competition.
   i. **SECCDC Supplemental Rule:** This includes items brought into the competition rooms by the Blue teams at the start of the competition.

   e. Team members are forbidden from entering or attempting to enter another team’s competition workspace or room during CCDC events.
f. Teams must compete without “outside assistance” from non-team members including team representatives from the start of the competition to the end of the competition (including overnight hours for multi-day events). All private communications (calls, emails, chat, texting, directed emails, forum postings, conversations, requests for assistance, etc) with non-team members including team representatives that would help the team gain an unfair advantage are not allowed and are grounds for disqualification and/or a penalty assigned to the appropriate team.

g. Printed reference materials (books, magazines, checklists) are permitted in competition areas and teams may bring printed reference materials to the competition.
   i. SECCDQC/SECCDC Supplemental Rule: Each team is restricted to two (2) standard business file boxes (approx. 12 x 12 x 18) of hard copy/printed material. Refer also to rule 4.d. and 4.d.i.

h. Team representatives, sponsors, and observers are not competitors and are prohibited from directly assisting any competitor through direct advice, “suggestions”, or hands-on assistance. Any team sponsor or observers found assisting a team will be asked to leave the competition area for the duration of the competition and/or a penalty will be assigned to the appropriate team.
   i. SECCDQC/SECCDC Supplemental Rule: Team representatives, sponsors, and observers are prohibited from entering team areas without direct supervision of the Competition officials (Gold Team). Institutions wishing to photograph students during the competition must be escorted by a Gold Team representative, and must photograph the team from outside the competition area. For the qualification competitions Institutions may “stage” competition photographs before or after the competition hours. For the onsite competition, an official event photographer (a White team member) will take pictures of all teams and make them available after the competition.

i. Team members will not initiate any contact with members of the Red Team during the hours of live competition. Team members are free to talk to Red Team members during official competition events such as breakfasts, dinners, mixers, and receptions that occur outside of live competition hours.

j. Teams are free to examine their own systems but no offensive activity against any system outside the team’s assigned network(s), including those of other CCDC teams, will be tolerated. Any team performing offensive activity against any system outside the team’s assigned network(s) will be immediately disqualified from the competition. If there are any questions or concerns during the competition about whether or not specific actions can be considered offensive in nature contact the Operations Team before performing those actions.

k. Teams are allowed to use active response mechanisms such as TCP resets when responding to suspicious/malicious activity. Any active mechanisms that interfere with the functionality of the scoring engine or manual scoring checks are exclusively the responsibility of the teams. Any firewall rule, IDS, IPS, or defensive action that interferes with the functionality of the scoring engine or manual scoring checks are exclusively the responsibility of the teams.

l. All team members will wear badges identifying team affiliation at all times.
during competition hours.
m. Only Operations Team/White Team members will be allowed in competition
areas outside of competition hours.

5. Internet Usage
   a. Internet resources such as FAQs, how-to's, existing forums and responses, and
      company websites, are completely valid for competition use provided there is
      no fee required to access those resources and access to those resources has not
      been granted based on a previous membership, purchase, or fee. Only
      resources that could reasonably be available to all teams are permitted. For
      example, accessing Cisco resources through a CCO account would not be
      permitted but searching a public Cisco support forum would be permitted.
      Public sites such as Security Focus or Packetstorm are acceptable. Only public
      resources that every team could access if they chose to are permitted.
      i. SECCDC Supplemental Rule: For the SECCDC on-site regional
         competition, all Internet access is by proxy server. In order to access any
         external Web site, Blue Teams must submit a candidate proxy list at
         least 2 weeks prior to the competition. This list will be reviewed, and
         only authorized sites added to the proxy list.
      ii. SECCDC Supplemental Rule: Once the competition has started, additions
         to the proxy list may be requested via a properly formatted request to
         the CIO.
      iii. SECCDC Supplemental Rule: The proxy list will not be shared with any
           competition team. If a team wishes to access a particular site, they must
           request it in advance. Support sites for operating systems used during
           the competition will be pre-configured in the Proxy Server. Teams will be
           notified of these sites.
      iv. SECCDQC Supplemental Rule: For the Qualification competition, Internet
          access will be monitored and enforced by local judges.
   b. Teams may not use any external, private electronic staging area or FTP site for
      patches, software, etc. during the competition. Teams are not allowed to access
      private Internet-accessible libraries, FTP sites, web sites, network storage, email
      accounts, or shared drives during the competition. All Internet resources used
      during the competition must be freely available to all other teams. The use of
      external collaboration and storage environments such as Google Docs/Drive is
      prohibited unless the environment was provided by and is administered by
      competition officials. Accessing private staging areas or email accounts is
      grounds for disqualification and/or a penalty assigned to the appropriate team.
   c. No peer to peer or distributed file sharing clients or servers are permitted on
      competition networks unless specifically authorized by the competition officials.
   d. Internet activity, where allowed, will be monitored and any team member
      caught viewing inappropriate or unauthorized content will be subject to
      disqualification and/or a penalty assigned to the appropriate team. This includes
      direct contact with outside sources through AIM/chat/email or any other public
      or non-public services including sites such as Facebook. For the purposes of this
      competition inappropriate content includes pornography or explicit materials,
      pirated media files, sites containing key generators and pirated software, etc. If
      there are any questions or concerns during the competition about whether or
not specific materials are unauthorized contact the White Team immediately.
e. All network activity that takes place on the competition network may be logged
and subject to release. Competition officials are not responsible for the security
of any information, including login credentials, which competitors place on the
competition network.
  i.  **SECCDC Supplemental Rule:** For the onsite regional, all event logs are
subject to public review and release subsequent to the following
conditions: Should a competition team desire to view their own logs, the
Team Representative may submit a request to competition officials after
the competition has ended. Teams desiring to review the logs from other
teams must submit a valid, legitimate reason in order to gain access.
  ii.  **SECCDC Supplemental Rule:** Competition logs may be provided to
external entities for non-profit research and investigation, if a legitimate
request is received within 60 days of the competition.
  iii.  **SECCDC Supplemental Rule:** All logs will be destroyed 60 days after the
competition.

6. **Permitted Materials**
a. No memory sticks, flash drives, removable drives, CDROMs, electronic media, or
other similar electronic devices are allowed in the room during the competition
unless specifically authorized by the Operations or White Team in advance. Any
violation of these rules will result in disqualification of the team member and/or
a penalty assigned to the appropriate team.
  i.  **Supplemental SECCDC Rule:** All cellular calls, texts, smart phone usage,
and so on must be made and received/viewed outside of the team’s
competition space and must not be used to receive outside assistance.
  ii.  **Supplemental SECCDQC Rule:** For the qualification competition, should the
team representative desire to provide USB flash drives for the team’s use
they must notify the Competition Director in advance, and attest that the
devices were wiped clean prior to the completion, and only issued after the
start of the competition.

b. Teams may not bring any type of computer, laptop, tablet, PDA, cell phone,
smart phone, or wireless device into the competition area unless specifically
authorized by the Operations or White Team in advance. Any violation of these
rules will result in disqualification of the team member and/or a penalty
assigned to the appropriate team.
  i.  **SECCDQC Supplemental Rule:** For the qualification competition, all
equipment to be used for the competition must be the property of the host
institution. No student owned or supplied equipment may be connected to
local systems or the competition networks. The team representative and
local judge will inspect the local systems and attest to their status.

c. Printed reference materials (books, magazines, checklists) are permitted in
competition areas and teams may bring printed reference materials to the
competition as specified by the competition officials.
  i.  **SECCDC Supplemental Rule:** (See Rule 4.g. for restrictions on the quantity
of printed materials which may be brought into the competition area).

   d.  **SECCDC Supplemental Rule:** If a competition team member with a documented
disability requires special equipment to compete, the Team Representative must
notify competition officials at least 30 days prior to the competition to facilitate the evaluation and authorization of needed equipment. Failure to do so MAY result in the student team member not being able to use the needed equipment during the competition.

7. Professional Conduct
   a. All participants, including competitors, coaches, White Team, Red Team, Ops Team, and Gold Team members, are expected to behave professionally at all times during all CCDC events including preparation meetings, receptions, mixers, banquets, competitions and so on.
   b. In addition to published CCDC rules, Host Site policies and rules apply throughout the competition and must be respected by all CCDC participants.
   c. All CCDC events are alcohol free events. No drinking is permitted at any time during competition hours.
   d. Activities such as swearing, consumption of alcohol or illegal drugs, disrespectful or unruly behavior, sexual harassment, improper physical contact, becoming argumentative, willful violence, or willful physical damage have no place at the competition and will not be tolerated.
   e. Violations of the rules can be deemed unprofessional conduct if determined to be intentional or malicious by competition officials.
   f. Competitors behaving in an unprofessional manner may receive a warning from the White Team, Gold Team, or Operations Team for their first offense. For egregious actions or for subsequent violations following a warning, competitors may have a penalty assessed against their team, be disqualified, and/or expelled from the competition site. Competitors expelled for unprofessional conduct will be banned from future CCDC competitions for a period of no less than 12 months from the date of their expulsion.
   g. Individual(s), other than competitors, behaving in an unprofessional manner may be warned against such behavior by the White Team or asked to leave the competition entirely by the Competition Director, the Operations Team, or Gold Team.

8. Questions, Disputes, and Disclosures
   a. PRIOR TO THE COMPETITION: Team captains are encouraged to work with the Competition Director and their staff to resolve any questions regarding the rules of the competition or scoring methods before the competition begins.
   b. DURING THE COMPETITION: Protests by any team must be presented in writing by the Team Captain to the White Team as soon as possible. The competition officials will be the final arbitrators for any protests or questions arising before, during, or after the competition. **Rulings by the competition officials are final.**
      All competition results are official and final as of the Closing Ceremony.
      i. **SECCDC Supplemental Rule:** White team members will notify the Gold Team of a protest immediately and forward ALL formally submitted protests from the Team Captain for review and arbitration.
      ii. **SECCDC Supplemental Rule:** Any team representative that approaches a competition official during the competition to register a complaint or protest on behalf of their competition team may be asked to leave the competition area.
iii. **SECCDQC Supplemental Rule:** The competition director reserves the right to correct an error of fact after the prelim qualification event, in order to ensure that the most deserving teams are invited to the on-site SECCDC regional event. All reasonable and prudent care will be taken to ensure such corrections are made quickly and with the utmost respect for the institutions affected.

c. In the event of an individual disqualification, that team member must leave the competition area immediately upon notification of disqualification and must not re-enter the competition area at any time. Disqualified individuals are also ineligible for individual or team awards.

d. In the event of a team disqualification, the entire team must leave the competition area immediately upon notice of disqualification and is ineligible for any individual or team award.

e. All competition materials including injects, scoring sheets, and team-generated reports and documents must remain in the competition area. Only materials brought into the competition area by the student teams may be removed after the competition concludes.

f. **SECCDC Supplemental Rule:** AFTER THE COMPETITION: any team member that behaves unprofessionally in their public comments about the event may be prohibited from competing in future CCDC events and/or referred to their host institutions for student misconduct.

9. **Scoring**

a. Scoring will be based on keeping required services up, controlling/preventing un-authorized access, and completing business tasks that will be provided throughout the competition. Teams accumulate points by successfully completing injects and maintaining services. Teams lose points by violating service level agreements, usage of recovery services, and successful penetrations by the Red Team.

b. Scores will be maintained by the competition officials and may be shared at the end of the competition. There will be no running totals provided during the competition. Team rankings may be provided at the beginning of each competition day.

c. Any team action that interrupts the scoring system is exclusively the responsibility of that team and will result in a lower score. Any team member that modifies a competition system or system component, with or without intention, in order to mislead the scoring engine into assessing a system or service as operational, when in fact it is not, may be disqualified and/or the team assessed penalties. Should any question arise about scoring, the scoring engine, or how scoring functions, the Team Captain should immediately contact the competition officials to address the issue.

d. Teams are strongly encouraged to provide **properly formatted** incident reports for each Red Team incident they detect. Incident reports can be completed as needed throughout the competition and presented to the White Team for collection. Incident reports must contain a description of what occurred (including source and destination IP addresses, timelines of activity, passwords cracked, access obtained, damage done, etc), a discussion of what was affected, and a remediation plan. A thorough incident report that correctly identifies and
addresses a successful Red Team attack may reduce the Red Team penalty for that event – no partial points will be given for incomplete or vague incident reports.

i. SECCDC Supplemental Rule: incident reports must use the specified format, and must be submitted within 2 hours of the incident in order to receive any reduction in Red Team penalty.

ii. SECCDC Supplemental Rule: Some incidents are “seeded” throughout SECCDC equipment, such as planted malware or inappropriate material. Since these Incident reports are not directly affiliated with a Red Team action, these incident reports are scored and points earned added to the team’s total, UNLESS they correspond to a graded injection, in which case any modification of scoring will be made to that injection.

10. Remote/Team Site Judging and Compliance

With the advent of viable remote access technologies and virtualization, teams will have the ability to participate in CCDC events from their respective institutions. This section addresses policy for proper engagement in CCDC events for remote teams.

a. Remote teams are required to compete from a location with controlled access, i.e., a separate room or a portion of a room that is dedicated for use during the CCDC event. Workstations and internet access must comply with published requirements.

b. One or more Remote Site Judge(s) must be assigned to the team site. At least one Remote Site Judge must be present at the remote site for the duration of the event in order to facilitate the execution of the CCDC. The qualifications of Remote Site Judge are the same as Event Judge. Subject to the specifications of the remote competition, the responsibilities of the Remote Site Judge may include the following:

i. Be present with the participating team to assure compliance with all event rules

ii. Provide direction and clarification to the team as to rules and requirements

iii. Establish communication with all Event Judges and provide status when requested

iv. Provide technical assistance to remote teams regarding use of the remote system

v. Review all equipment to be used (SECCDC: before and) during the remote competition for compliance with all event rules

vi. Assure that the Team Captain has communicated to the Event Judges approval of initial system integrity and remote system functionality

vii. Assist Event Judges in the resolution of grievances and disciplinary action, including possible disqualification, where needed

viii. Report excessive misconduct to local security or police

ix. Assess completion of various injects based on timeliness and quality when requested by Event Judges

x. Act as a liaison to site personnel responsible for core networking and internet connectivity

xi. Provide direct technical assistance to teams when requested by Event Judges
xii. Provide feedback to students subsequent to the completion of the CCDC event
c. A recommendation for Remote Site Judge(s) is expected to be given from a Team representative of the participating institution to the CCDC Event Manager. Remote Site Judge(s) must not be currently employed, a student of, or otherwise affiliated with the participating institution, other than membership on an advisory board. CCDC Event Managers should also be apprised of a contact from the participating institution responsible for core networking and internet connectivity that will be available during the CCDC event.

11. Local Competition Rules
The local competition rules section is unique to each specific CCDC competition. Please refer to the official rules for your CCDC event for more information.

Competition Operations

Functional Services
Certain services are expected to be operational at all times or as specified throughout the competition. In addition to being up and accepting connections, the services must be functional and serve the intended business purpose. At random intervals, certain services will be tested for function and content where appropriate.

HTTP
A request for a specific web page will be made. Once the request is made, the result will be stored in a file and compared to the expected result. The returned page must match the expected content for points to be awarded.

HTTPS
A request for a page over SSL will be made. Again, the request will be made, the result stored in a file, and the result compared to the expected result. The returned page needs to match the expected file for points to be awarded.

SMTP
Email will be sent and received through a valid email account via SMTP. This will simulate an employee in the field using their email. Each successful test of email functionality will be awarded points.

FTP
Successful access to a database will be tested via the FTP protocol. Some indication of database integrity will also be examined.

DNS
DNS lookups will be performed against the DNS server. Each successfully served request will be awarded points.

**Business Tasks**

Throughout the competition, each team will be presented with identical business tasks. Points will be awarded based upon successful completion of each business task. Tasks will vary in nature and points will be weighted based upon the difficulty and time sensitivity of the assignment. Tasks may contain multiple parts with point values assigned to each specific part of the tasking. Each business task may have an indication of relative importance or value assigned and a specific time period in which the assignment must be completed. Business tasks may involve modification or addition of services.

**Questions and Disputes**

1. Team captains are encouraged to work with the local site judge and contest staff to resolve any questions or disputes regarding the rules of the competition or scoring methods before the competition begins. Protests by any team will be presented by the Team Captain to the competition officials as soon as possible. Competition Gold Team officials will be the final arbitrators for any protests or questions arising before, during, or after the competition and rulings by the competition officials are final.

2. In the event of an individual disqualification, that team member must leave the competition area immediately upon notification of disqualification and must not re-enter the competition area at any time. Disqualified individuals are also ineligible for individual awards or team trophies.

3. In the event of a team disqualification, the entire team must leave the competition area immediately upon notice of disqualification and is ineligible for any individual or team award.

**Aftermath**

Members of CSSIA, Gold, White, Red, and Black Teams strive to make the SECCDQC an enriching experiences. All management and administrative teams are open to feedback and suggestions for improvement after the completion of the competition. This may include areas of concern or dissatisfaction.

Whether feedback is positive or negative, participants are forbidden from publishing, posting on the internet, or publicly communicating details of the competition other than what is available at www.cssia.org. They are also forbidden from publishing, posting on the internet, or publicly communicating assessments of the Qualification CCDC, nor assessments of the performance of any team, nor speculations concerning different possible outcomes. Institutions that fail to adhere to this rule may be refused participation in future competitions.

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