

PREPARATION





OUR MISSION

- Ensure that all Canadian students have the appropriate knowledge and skills required to make empowered decisions regarding the safe use of technology and this challenge is a key component of our strategy in realizing that vision.

- Technical Challenge
- Business Challenge
- Presentation

OVERVIEW

YOUR GOAL



- Throughout the day you will be bombarded with clues and facts by way of the narrated story teller. Your job, as cyber security analysts is to try and pull these facts together to solve the business challenge.

CLUES

- Will come to you in three ways:
 - Solving cyber problems on your computer
 - Unlocking boxes in another part of the room
 - Listening to insights from a stage character
- The facts of the narrative will not necessarily come to you in the right order
 - Keep track of all your discoveries
 - Forensic Business Analysis sheet on your table'



SCORING



Dakota Beta

75

Dakota Collegiate

Sponsor: (ISC)2



- Scoring will be awarded based on four areas of challenge:
 - Solving cyber problems on your computer
 - Unlocking boxes in another part of the room
 - Listening to insights from a stage character
 - Presenting to an executive panel.

AVANT



Broncos

71

J.H. Bruns Collegiate

Sponsor: Avant

AVANT



QinetiQ

Cyber Knights

67

Louis Riel Arts & Tech Center

Sponsor: QinetiQ

QinetiQ

2016 CCDC Scoring Results

AWARDING POINTS

- Technical points and lock box points will be automatically scored and posted to the website
 - Scores will be shown at the competition event (See TECHNICAL CHALLENGE)
- Technical points and lock box points that are tallied throughout the day account for only a third of the total points awarded
- The other points are awarded through:
 - Solving the business challenge (See BUSINESS CHALLENGE)
 - Presentation to an executive panel (See PRESENTATION).

TECHNICAL CHALLENGE



- Windows, Linux, Cisco hardening
- Password cracking
- Cryptography
- System administration
- File system forensics
- Network forensics

TECHNICAL FORENSICS

- Close as many security holes as you can in the assets under your control
- If you encounter any flags hidden in puzzles or challenges (identified by “FLAG: sometext”)
 - Enter that text string in the flag submission
- Physical challenges including lock boxes which may contain various clues may contain useful information or flags.
- Public-facing services hosted on your assets (such as public web sites) must remain available to the public so that your business can keep running
 - Outages may result in negative points

BUSINESS CHALLENGE

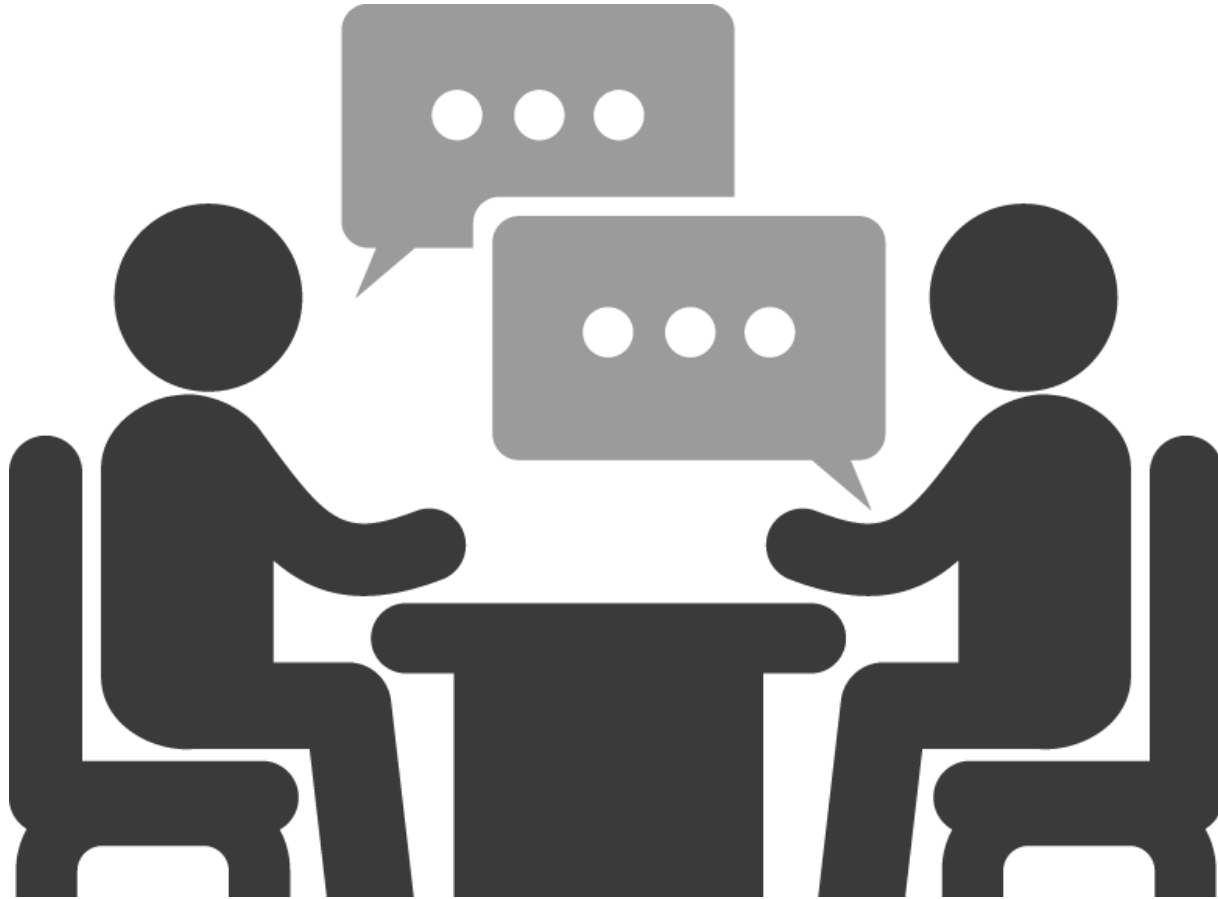


- Business forensics analysis
- You will also learn **about the human side** of cyber defence and security
- Never forget that people are the ones who are ultimately responsible for the dysfunctions, flaws, errors, hacks, problems and insecurities we encounter each day.

BUSINESS FORENSICS

- While you are working through lock boxes and technical cyber exercises, you will be guided by a human narrative that helps to explain motives and conspirators as part of the business challenge
- Your job is to figure out this narrative as you receive clues and insights from your digital discoveries:
 - The facts of the narrative will not necessarily come to you in the right order.
 - You will need to keep track of all your discoveries. For this purpose we have a **Forensic Business Analysis work sheet on your table. Keep track of your discoveries using this sheet.** Someone should be in charge of jotting down what the team learns.
 - Be careful not to share your discoveries with other tables. All information is worth points. No sense in giving away your discoveries to others, especially since you're in a competition.
 - You will be called upon to present your discoveries/findings about the narrative in the afternoon (see PRESENTATION).
 - Your TABLE SUPERVISOR will be with you throughout the day to offer guidance (but not direct answers) if you need an extra hand (see Help and Aid - COACHES)

HELP AND AID



- Full access to internet throughout the competition
 - Google is your friend
- Game or environment specific questions, please call upon the coaches or volunteers
 - We're here to help
 - We choose to be here – because we take tremendous satisfaction in giving back to the future of our industry (i.e. YOU).

COACHES

- Each team will be assigned a senior consulting technical supervisor
- Take the opportunity to spend the time to get to know your technical supervisor.
- They provide a wealth of knowledge and industry expertise that they're willing to share with you
 - Assist you and your team in working through the business and technical challenges – by challenging each of you and the way think and approach problems
 - They serve as an invaluable resource in helping you appreciate the cyber security industry and may even assist you in deciding your career path.

PRESENTATION



- You will be scored on your ability to:
 - Present the information
 - Identify the facts and analysis
 - Plan for your next steps.

BRIEFING EXECUTIVES

- 7-minute oral presentation/briefing that you will provide to a panel of executives
 - 15 minutes to prepare your findings and to organize your facts → Status update
 - Teams will be presented with an outline at the competition to help organize their facts and present their findings
- The presentations will begin @ 1:15pm.
- You will be in the middle of solving your challenges
 - You are not expected to have solved all of the challenges
 - You are expected to provide a status update of your work to that point in time – just like in the industry!
 - You will continue to work through your challenges after your presentation.

RULES OF ENGAGEMENT



- Do not hinder progress of other teams
- Do not attack CCDC infrastructure
 - Excess CPU, memory, bandwidth, etc
- Please follow the warnings
 - “Do not enter” & “Welcome”
- Any system you’re to analyze, explore freely
 - Please no DDoS attacks
- Abusing resources outside your network are forbidden
- Internet access should be used in accordance with your home school’s Acceptable Use Policy.
- This network environment is monitored. Conduct yourselves accordingly.

COMPLIANCE

- Violation of any rules of conduct as stated above or action in violation of ethical standards may result in disqualification.