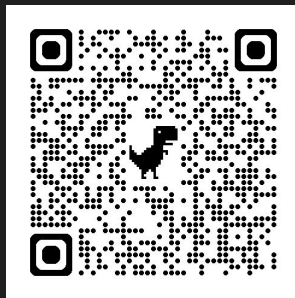


VPN Access (NON-CPP):

[link](#)



CCDC:

Let's get down to

BUSINESS

This is important (trust)



Weekly Schedule

Date	CPTC (10AM-12PM)	CCDC (1PM-4PM)
Jul 11	Cyber Bootcamp Kickoff!	
Jul 18	Intro to Pen Testing	Business Week 
Jul 25	Hacking Web Apps	Introduction to Networking
Aug 1	Hacking Linux	Securing Linux
Aug 8	Hacking Windows	Securing Windows
Aug 15	Consulting	Common Services
Aug 22-23	CPTC Tryouts (All day)	
Aug 29-Sep 12		CCDC Fall
Sep 19-20		CCDC Tryouts (1-5 PM)

whoami

Adam Cheung | @adumb

IST Sysadmin Intern @ Esri
(holy commute)

CCDC Co-Captain, Linux Lead 2026-2027
CCDC Linux Database 2025-2026

BS CS, Cyber Minor; MSIS 1st year
Sec+, Network+

 **adumb** 3/26/2026 1:21 PM Jump

I BEAT SARA HAHAAHAHAHAHA

Rank	Player	Game	WPM	Acc	Time
1ST	ElegantPurpleAntelope	"Raw Racing Recruit"	108 WPM	98.26% Acc	25.53 secs
2ND	BB-8	"Wild Type Bot"	104 WPM	94.0% Acc	(+0.90) 26.43 secs
3RD	softcars	"Raw Racing Recruit"	98 WPM	93.91% Acc	(+2.57) 28.10 secs
4TH	bluequakecar	"Original Gangster"	92 WPM	91.76% Acc	(+4.46) 29.99 secs
5TH	natalugg	"Raw Racing Recruit"	63 WPM	93.48% Acc	(+18.05) 43.56 secs

whoami

Natalie Tran | @natworking

CD&E Consulting Intern

CCDC (Co-)Captain 2025-2027

CCDC Networking 2024-2025

4th year CS

isopods <3



whoami

Daniel Lee | @dinonuggets730

IT Security and Compliance @ CPP

CCDC Linux Web 2024-2025 (retired)

4th year CIS Major



LIVE REACTION



Table of Contents

| 01

Why Business?

| 02

Injects

| 03

Inject Practice

| 04

Competition Injects

01

Business???

Da heck I thought this was a
cyber defense competition??!!!!

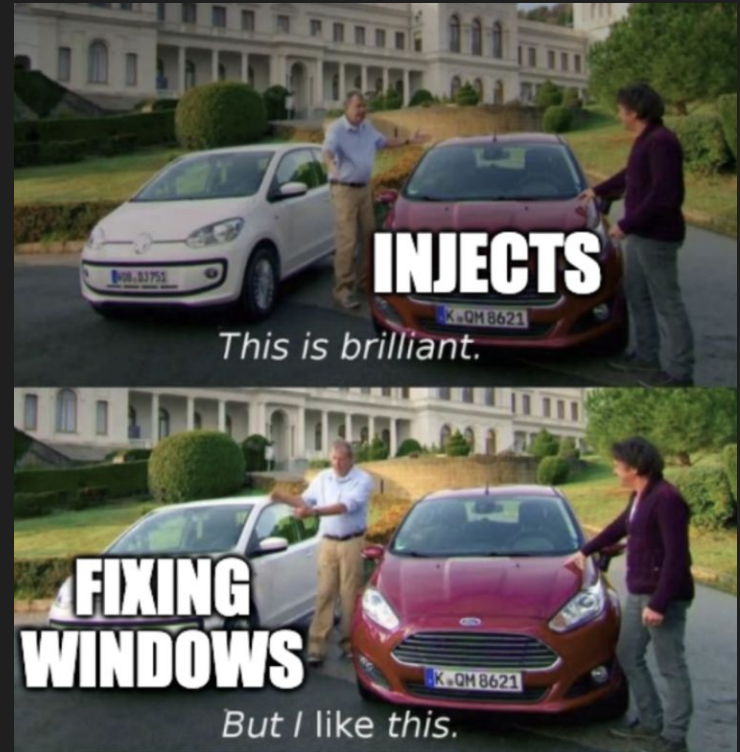


ITS NOT JUST COLORING

ITS ALSO WRITING

Whoa!

Before you roll your eyes...
Cybersecurity serves as a
function of business



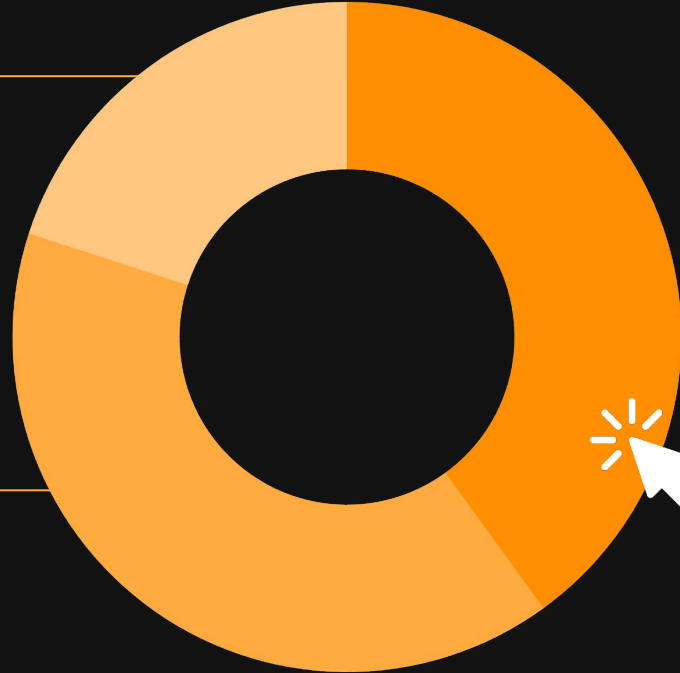
CCDC score breakdown

20%

Orange team

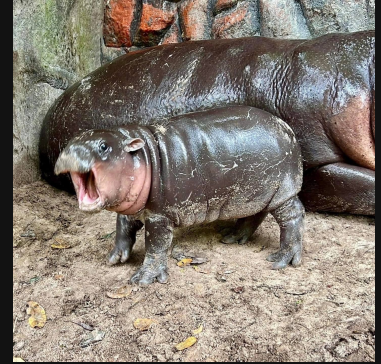
40%

Services

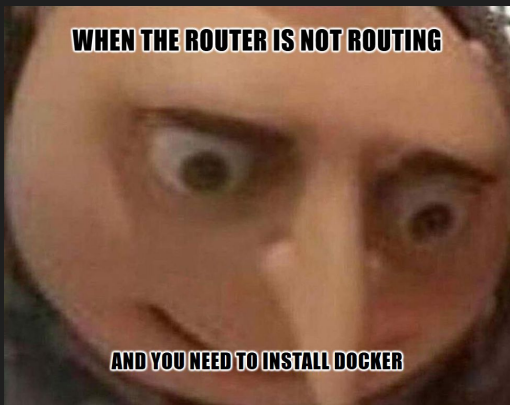


40%

Business injects



It's more
challenging
than you
think...



Technical tasks

How much ansible???

Broad understanding

Why are we setting walls on fire???

When's phishing season???

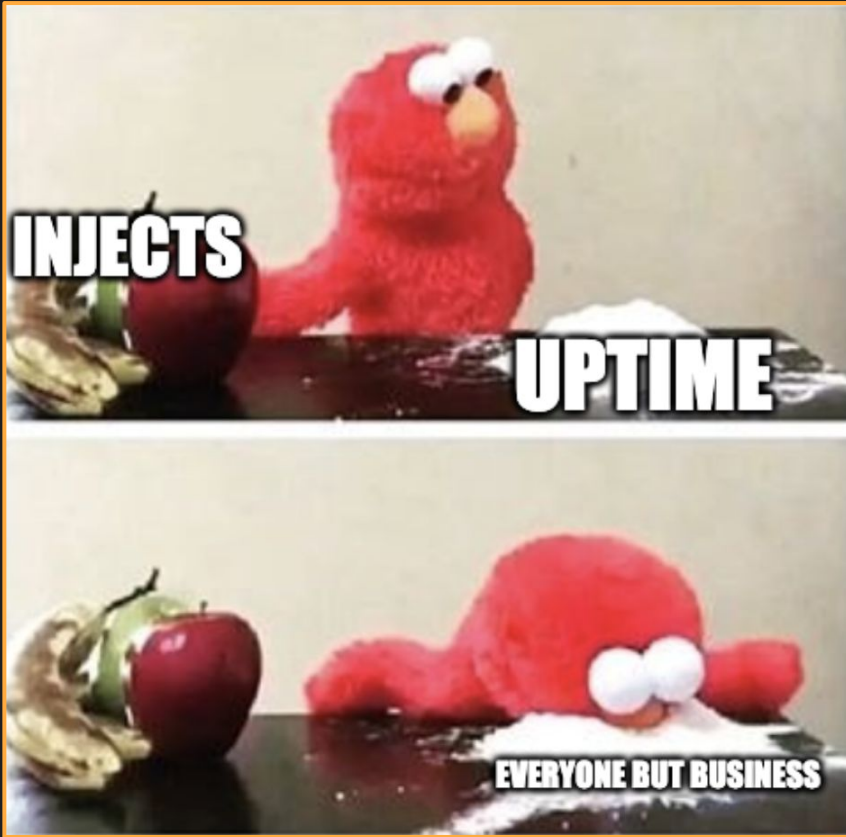
What are we putting in containers???

02

Injects

No doctors were involved in the making of these slides





Da heck is an inject?

- Tasks from business execs
- Complete within some short timeframe
- Write-ups, infographics, *presentations*
- Examples
 - Conduct a security assessment
 - Recommend a cloud solution
 - Write a Disaster Recovery Policy
 - Set up and configure a company VPN
 - Create an infographic to promote security awareness

Secret sauce to good injects



be thorough



use clear
and concise
language



provide
supporting
evidence

Secret secret sauce to good injects



be
consistent



submit
something!



Being thorough



Swiss Bank XChange

Hello Team!

I hope that as you were taking inventory of our assets, that you were making notes of what software were being removed and what ports were closed.

If you have not done so already, I would like your team to perform an audit of any unnecessary software and services that are running on our systems. If you have already done this, good! Please double check again!

The report your team shall provide as part of this audit will be a list of unnecessary software and services that were found as well as what ports were closed. These should be broken down by the hosts that they were discovered to be running on. No doubt that you will find plenty. This is to aid in our investigation of a prior team who was running these systems.

- Sebastian Herzig Gartmann



Being thorough



Swiss Bank XChange

Hello Team!

I hope that as you were taking inventory of our assets, that you were making notes of what software were being removed and what ports were closed.

If you have not done so already, I would like your team to perform an audit of any unnecessary software and services that are running on our systems. If you have already done this, good! Please double check again!

The report your team shall provide as part of this audit will be a list of unnecessary software and services that were found as well as what ports were closed. These should be broken down by the hosts that they were discovered to be running on. No doubt that you will find plenty. This is to aid in our investigation of a prior team who was running these systems.

- Sebastian Herzig Gartmann

Requirements:

1. Perform an **audit of unnecessary software and services**
 - a. Including **everything** removed prior to this inject
2. List the software and services removed
 - a. Make note of **ports that were closed**
3. **Organize findings by host**

Tips:

- **ALWAYS** take notes on what you are doing
- Anticipate inject prompts



Using professional language



Address the recipient



**Take into account who
your audience is**



**Write with intention, get to
the point**



**DON'T use colloquial
language**



DON'T neglect formatting



**DON'T guess about
information – always
check with the team**



Provide supporting evidence

**YOU ARE TRYING TO
CONVINCE YOUR “BOSS”
THAT **YOUR SOLUTION IS
THE BEST SOLUTION****





Provide supporting evidence

- Give **background** about the issue.
 - Would there be fines if we fail to fix it? Potential loss?
- **WHY** did you choose that solution?
 - What other solutions were there?
- **HOW MUCH** does your solution cost?
 - How does that compare to other solutions?
- **WHO** is going to implement your solution?
 - Who is going to maintain it?

!!! Provide supporting evidence – MUST DOs

SHOW YOUR WORK!!

- Screenshots
- Logs
- Examples of config
- Scripts that were run

NEATLY

- Categorize your evidence
 - Host
 - OS





Be consistent

- **Make and use an Inject Template**
 - aka "prefiring" the angle or crosshair placement
 - Have a template you'll copy & paste for every inject





Be consistent

Do's:

- **Always have a header**
 - Company name/logo with colors
- **Use a basic email format**
 - Salutation, Closing, Team #

Don'ts:

- **Address the wrong person...**
- **Obscure the letters**
 - Weird font (comic sans 😭)
 - Logo in background
 - Cover words with screenshots

Be sure to change your placeholders during competition!



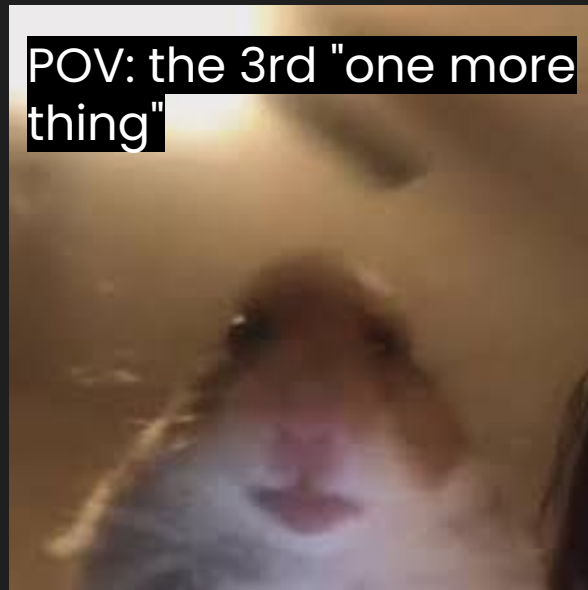
Submit something!

- **Even if you don't have much...**
 - Submit whatever you have before the deadline
- **Getting **some points** is better than nothing!!!**
 - You'll always get points for organization and format

03

Inject Practice

Congrats! You're hired :D



Background

The Company

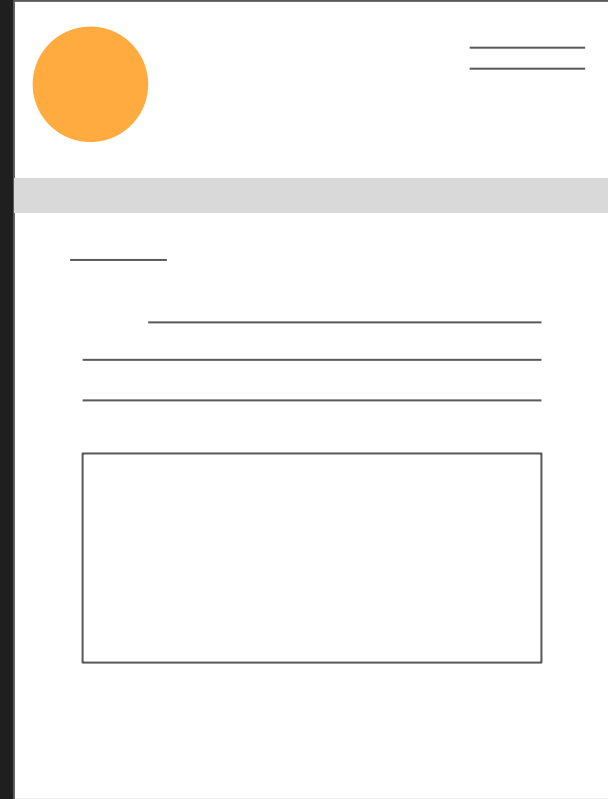
- Name: Pulsar Palace & Casino
- About: Hotel + Casino company that rivals "The Wormhole"
 - Provides online check-in service for guests as well as slot machines!
- You have recently joined the IT Security team to maintain service uptime and patch vulnerabilities



Prepare a Template!!

Objective

- 15 minutes
- Create a neat inject template to use for the upcoming injects
- Does not need to be super fancy
- Consistency is key!



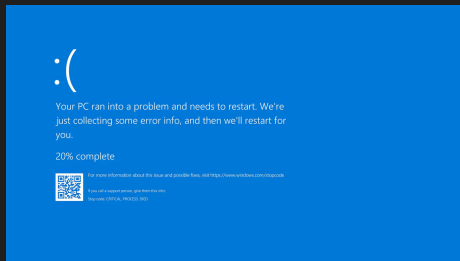
Practice 1: Audit some Computers

Prompt

- Your manager, Venus Saur (she/her), asks you to audit 3 VMs from a datacenter located on a different planet, as the database team recently submitted a ticket reporting downtime
- Computer names:
 - a11-columbia
 - a14-kittyhawk
 - a15-endeavour

Objective

- 1-2 page report
- 30 minutes
- Technical, detailed report on what caused downtime for **your manager**
- Utilize tables!
- Be creative and use your imagination!



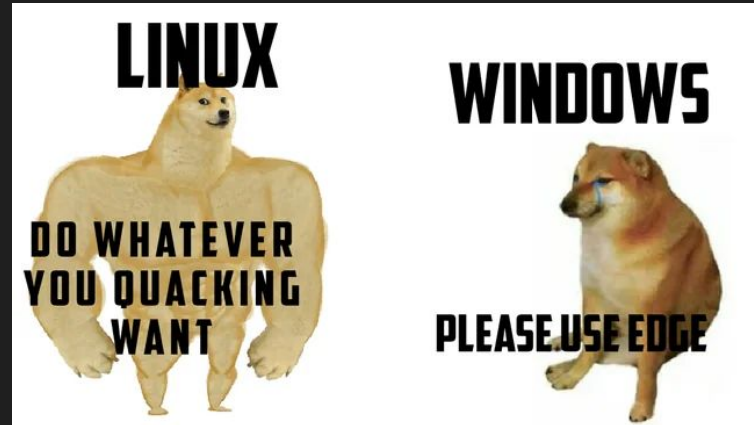
Practice 2: Comparing Operating Systems

Prompt

- The CEO of PPC, Gamma P. Ray (he/him), has asked you to compile a summary of the similarities and differences between Windows and Linux operating systems
- "Your summary will be sent over to the sales and marketing team to design an educational graphic, so keep it neat!" – G. P. Ray

Objective

- 1-2 page report to **The CEO**
- 30 minutes
- The CEO says neat... I wonder what he means



Manager

- Technical rundown
 - More tech terms
- More details = better
- Screenshots
- Usually involve guides, audits, etc.



C-Suite

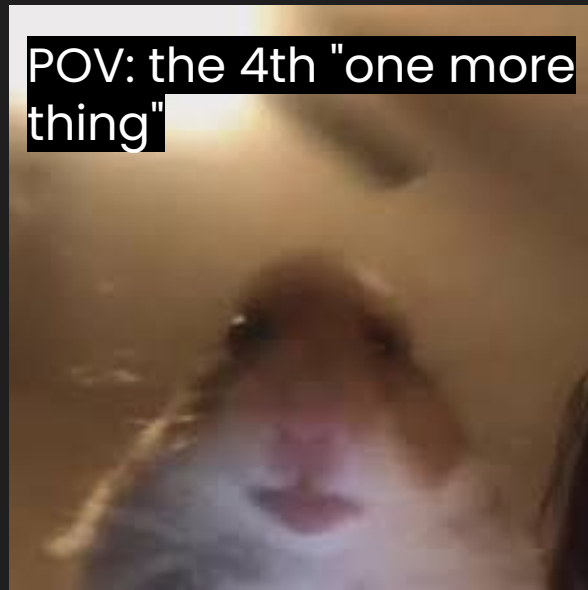
- Dumb it down
 - Simpler words that anyone can understand
- Concise, straight to the point
- Neat? Use a table!
- Strange requests



04!!!?

Injects in Practice

in comp



What do real injects look like?

Overview

- Usually around 45 min - 1.5 hr to complete each
- 12-15 injects throughout the comp
- Examples
 - Take inventory of the environment
 - Install Ansible and run a playbook to gather OS info
 - Draw a new company logo
 - What's your favorite dinosaur?



Re: Inject 03 - PowerShell on Linux

Good Evening,

One of our engineers was given a Linux system to work with, but we found out that he was cursed to only know PowerShell syntax.

Please download PowerShell on one of the Linux machines, and once it's up and running, write a ps1 script that outputs the OS that it is running on and the version. Detail the steps you took to do so, and send me a report with pictures.

Sincerely,

Alison Maher

MindMend_{AI} IT Manager

How do we do injects in real comps?

Inject Lead

- In charge of looking out for and **assigning** injects
- Manage a **whiteboard**
 - Write down deadlines and who is assigned to what
- Make **template** before competition
 - After given briefing packet
- **Submit most (if not all) injects**
 - Take screenshot of completion after comp

Pair up System

- You'll never be alone!
- One person does technical
- Another does writing



Homework!

Due July 25th @ 5 AM PST
<https://jessh.zip/2026ccdchw-2>

Live Demo

- For HW