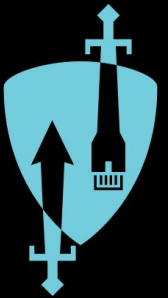# Welcome to Systems Security! (SysSec)
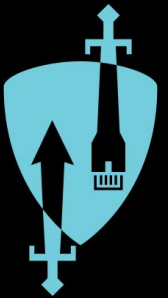
Systems Security - Fall 2019

SecDev Introduction
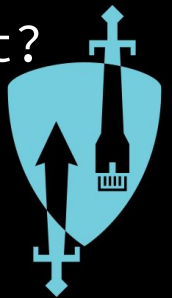
Icebreaker

# Icebreaker: 10-15 min to prep + 2 to present

———

- **Healthcare company (25 employees) developed an app that allows you to manage your own patient file, doctors appointments, prescriptions, insurance, etc.**
- Do we need a security team? (either internal/external)
- Why is security important to us?
- What do we need to secure? Why?
- What is our biggest threat? How do we mitigate it?

What is security?
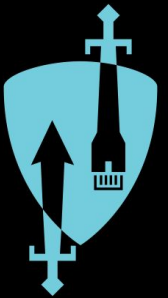
Why do we need security?
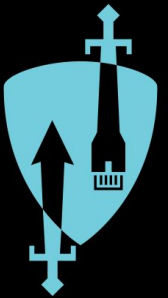
# What if we don't pay attention to security?

UBNetDef at a Glance

- Systems Security (SysSec)
- Network Security (NetSec)
- Security Development (SecDev)
- Everyone participates in Lockdown!

Lockdown

- Competition that we hold once a semester
- Focuses on Security, System Admin, problem solving skills and teamwork / collaboration
- Very challenging, but fun!!!
- Began running similar competition for High School Students
- Beginning internal UB Lockdown in Sept
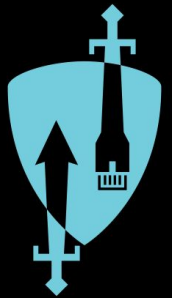
What are we going to learn in SysSec?

- Virtualization
- Windows
- Linux
- Networking
- Business things
- etc!
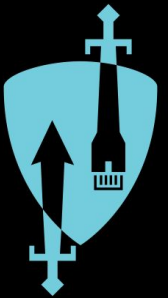
Who Can Help You? SecDev!

– – –

Aibek Zhylkaidarov (@ l1ghtman)

Aritra Paul (@aripaul)

Andy Mavs (@amavs)

Anup Johnson (@anupjohn)

Brian Brown (@brianbrown.tar.gz)

Can Toprak (@toprak)

Charles Wiechec (@bashasaurusrex)

Destiney Plaza (@destiney)
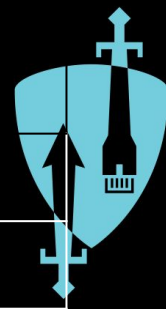
Frank Baiata (@frankb45)

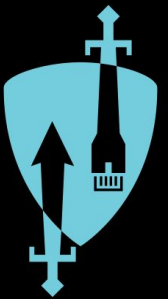Jay Chen (@jay_c)

Shanelle Ileto (@shanelleileto)

Sriniketh Varma (@srini)

Stephen James (@stephenorjames)

Zachary Tenenbaum (@zachtenenbaum)

Resources and Materials

UB NetDef Website

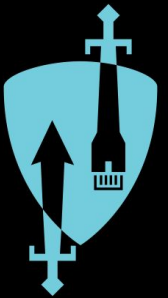---

- ubnetdef.org
- ubnetdef.org/courses/syssec
 - Syllabus, grading scale, rules, etc.

SysSec Homework Engine

- All homeworks and assignments will be posted to the "Homework Engine"
- https://homework.ubnetdef.org
- Login credentials will be provided soon!

Mattermost, aka ~ 24/7 Office Hours!

- Way for us to communicate and for you to be able to ask questions
- Responses are rather quick through most of the day
- Always feel free to DM a SecDev member
- Please ask general questions in the SysSec chat
- Feel free to offer other classmates advice
- We will begin adding you to the Mattermost channel soon
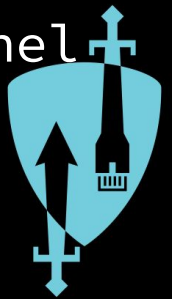
Virtual Machines

___

- VMs are used to create your own infrastructure where you will learn how computers interact over a network
- We host this all on servers that we manage in Davis Hall
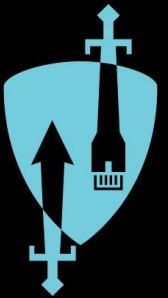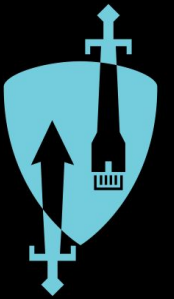- Will be used for the bulk of homework assignments
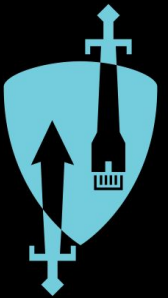
Virtual Machine Access

- Type the server name into your browser
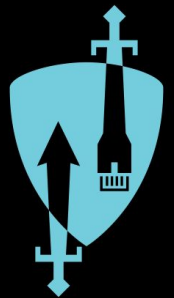- Server Name: **cdr-vcenter.cse.buffalo.edu**
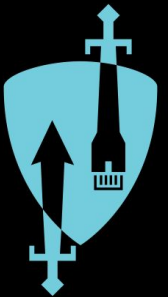- Off Campus? Use the UB VPN!

Grading

Grading Breakdown

Grading Scale	
Attendance	15
Lockdown	15
Final Project	15
Projects	50
Extra Comp.	5
Total	100

Grading Scale

Letter grade	Percentage
A	≥ 93%
A-	≥ 90%
B+	≥ 87%
B	≥ 83%
B-	≥ 80%
C+	≥ 77%
C	≥ 73%
C-	≥ 70%
D	≥ 65%
F	<65%

Attendance

___

- ubnetdef.org/attendance
- Weekly attendance is recorded and we really appreciate feedback from the lectures :)

Questions?

(1000 Mile overview next)