



Welcome to Systems Security! (SysSec)

Systems Security - Spring 2019

SecDev Introduction

Icebreaker

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



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- **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

What are we going to learn in SysSec?

- Virtualization
- Windows
- Linux
- Networking
- Business things
- etc!



Who Can Help You? SecDev!



University of Buffalo
Network Defense

Computer Science and Engineering	Management
Aibek Zhylkaidarov (@l1ghtman)	Alex Bitar (@alexanderbitar)
Grant Fowler (@fowler64)	Andy Mavs (@amavs)
Jerry Kappil (@boopdoop)	Chris Klimek (@chrisklimek)
Ohad Katz (@ohadkatz)	Destiney Plaza (@destiney)
Ross Ventresca (@ross)	Jay Chen (@jay_c)
Shanelle Iletto (@shanelleiletto)	Paul Prawdzik (@paulprawdz)
Sriniketh Varma (@srini)	Peter Gebura (@petergebura)
Stephen James (@stephenorjames)	
Tyler Suchan (@suchanandsuch)	
Vince Bruno (@vince)	

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!



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- 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

Mattermost walkthrough



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

- [Download vSphere](#) to be able to connect, or type the server name into your browser
- Server Name: **cdr-vcenter1.cse.buffalo.edu**
- [Off Campus? Use the UB VPN!](#)

Grading



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

Attendance



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

Questions?

(1000 Mile overview next)