CS471
Security & Info Assurance

Welcome!
04/26/2022

CS471 Security & Info Assurance

Course Schedule

Week #	Monday	Wednesday	Reading	Weekly Topic	Due	Assigned
1	01/16/23	01/18/23		Getting started		
2	01/23/23	01/25/23	Chapter 1	Introduction		Assignment 1
3	01/30/23	02/01/23	Chapter 2	Symmetric Encryption	Assignment 1	Assignment 2
4	02/06/23	02/08/23	Chapter 3	Asymmetric Encryption	Assignment 2	Assignment 3
5	02/13/23	02/15/23	Chapter 4	Key Distribution and Authentication	Assignment 3	
6	02/20/23	02/22/23	Chapters 1-4	Review : **Midterm 1**		
7	02/27/23	03/01/23	Chapter 5	Network Access Control		Assignment 4
8	03/06/23	03/08/23	Chapter 6	Transport Level Security	Assignment 4	Assignment 5
9	03/13/23	03/15/23	Chapter 7	Wireless Network Security		
10	03/20/23	03/22/23	Chapter 8	DNS and Email Security	Assignment 5	
11	03/27/23	03/29/23		Spring Break		
12	04/03/23	04/05/23	Chapters 1-8	Review : **Midterm 2**		
13	04/10/23	04/12/23	Chapter 9	IP Security		Assignment 6
14	04/17/23	04/19/23	Chapter 10	Malicious Software	Assignment 6	Assignment 7
15	04/24/23	04/26/23	Chapter 11	IDS		
16	05/01/23	05/03/23	Chapter 12	Firewalls	Assignment 7	
17	05/08/23	05/10/23		Finals Week		
	*No Meeting			Final Exam: **TBD**		

CS471
Security & Info Assurance

The X.800 service categories will be important for the entire semester.

As we examine security, this will be our measure.

- **X.800 Service Categories**
    - Authentication
    - Access control
    - Data confidentiality
    - Data integrity
    - Non-repudiation

X.800 SERVICE CATEGORIES

- Authentication
- Access control
- Data confidentiality
- Data integrity
- Nonrepudiation

CS471
Security & Info Assurance

Today

– Assignment 7: Tails and Tor

CS471
Security & Info Assurance

Malicious Software

What is 'Malicious Software'?
What are the goals of malware?
How is it distributed?
What can we do about it?

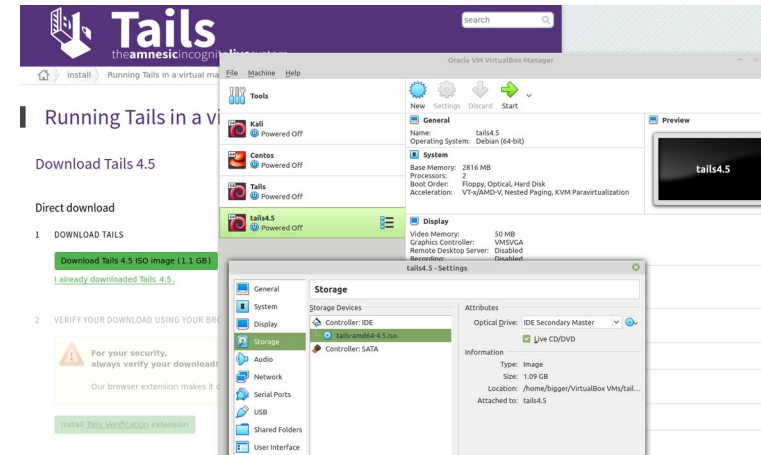→ How do we *detect* malware?
→ How can we *Avoid* malware?

DETECTING MALWARE

CS471
Security & Info Assurance

Assignment 7

Use, analyze, and understand TOR and Tails.

Use the Tails operating system in Virtual Box to investigate Tor, the onion router.

CS471
Security & Info Assurance

Next time:

– Chapter 12: Firewalls

CS471
Security & Info Assurance

Thank you!