

CS471

Security & Info Assurance

Welcome!
1/23/2023

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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		

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Today

- Netcat Demo
- Assignment 1
- Sample Report

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Attendance

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Demo Kali Linux, Netcat, and Wireshark



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NOTES

//START SSH

```
sudo service ssh start
```

NETCAT

– LISTEN

```
nc -l 10.0.2.15 -p 31337
```

```
nc -l -p 31337
```

– CONNECT

```
nc 10.0.2.15 31337
```

– PORTSCAN

```
nc -z -n -v 10.0.2.15 1-99999
```

– RECEIVE FILE

```
nc -l 4444 > received_file
```

– SEND FILE

```
nc 192.168.1.16 4444 < original_file
```



Host a local copy of a webpage:

– Use Chrome to copy the page.

– Rename file to index.html.

– Open terminal in the folder of files.

– Start Python Powered webpage:

```
python -m SimpleHTTPServer 8080
```

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Assignment 1:

- Use Kali Linux and WireShark.
- Create and capture un-encrypted network traffic.
- Write a report with screenshots.

Review the Sample report and assignment 1.

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Before next time:

- Start and login to Kali
- Read Chapter 1
- Start Assignment 1

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Thank you!