



## Cyber Security System and Network Security

Cyber Security System and Network Security webinar was organized on the year of 2018-19. It Gives Idea about Different Cyber-attacks and Linux Administration

# Cyber Security System and Network Security



22 August 2018

Centurion University of Technology and Management



Pre-requisites: Nil  
 Course Type : Audit (Workshop)  
 Duration : 30 Hours

### Course Objectives:

- Develop skills to manage a Linux server and provide basic security to the server
- To train students in the organizing and the technical realization and security of data

### Learning Outcomes:

- Able to setup Linux server
- Describe the ways in which the security of an information system can be endangered
- Suggest the optimal way to organize information system security

Module	Contents	Duration
Module-1	<ul style="list-style-type: none"> <li>• Introduction to systems and networks</li> <li>• Threats, Defense against online threats</li> <li>• Threat modeling and risk assessments, malware, exploit kits</li> </ul>	10 hours
Module-2	<ul style="list-style-type: none"> <li>• Web application security principles, application design &amp; development security</li> <li>• Environment and controls, Essence of secure software development</li> <li>• Foundations of operating system security and privacy functionality</li> </ul>	10 hours
Module-3	<ul style="list-style-type: none"> <li>• Windows 10 privacy issues</li> <li>• OS Hardening</li> <li>• Defense against tracking</li> </ul>	10 hours
<b>TOTAL</b>		<b>30 hours</b>

*Anita Patra*



**Dr. Anita Patra, Registrar, CUTM**

*[Signature]*



**Convener**



**A REPORT ON  
NAME OF THE EVENT:  
CYBER SECURITY: SYSTEM AND NETWORK SECURITY  
TOTAL NUMBER OF PARTICIPANTS: 53  
ACADEMIC YEAR: 2018-19  
DATE: 22.08.2018**

The programme **Cyber Security: System and Network Security** was offered to the students to provide them with hands-on experience on this field, which is an emerging field and growing rapidly. Data is the most powerful currency of the modern digital world, and making sure that it's managed and protected is vital for every organization across the globe. With this course the participants could enhance their knowledge and skillset in areas of data management and cyber security to advance their careers in this fast-paced and exciting field.

The participants were able to master hacking methodology to be used in penetration testing. Further, hands-on experiences were provided to the participants to identify points of vulnerability in system and networks. The programme helped the participants in the organizing and the technical realization and security of data

The following areas were discussed in a hands-on experience based are as follow:

- **Introduction to systems and networks**
- **Threats, Defense against online threats**
- **Threat modelling and risk assessments, malware, exploit kits**
- **Web application security principles, application design & development security**
- **Environment and controls, Essence of secure software development**
- **Foundations of operating system security and privacy functionality**
- **Windows 10 privacy issues**

**Network Security** refers to the measures taken by any enterprise or organization to secure its computer network and data using both hardware and software systems. This aims at securing the confidentiality and accessibility of the data and network. Every company or organization that handles a large amount of data, has a degree of solutions against many **cyber threats**.

**Network Security: Working**

The basic principle of network security is protecting huge stored data and networks in layers that ensure the bedding of rules and regulations that have to be acknowledged before performing any activity on the data.

These levels are:

1. Physical
2. Technical
3. Administrative

These are explained as following below.

1. **Physical Network Security:**

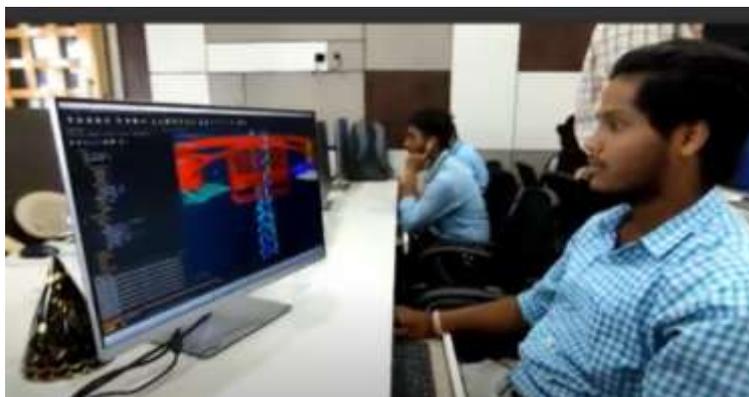
This is the most basic level that includes protecting the data and network through unauthorized personnel from acquiring control over the confidentiality of the network. These include external peripherals and routers that might be used for cable connections. The same can be achieved by using devices like biometric systems.

2. **Technical Network Security:**

It primarily focuses on protecting the data stored in the network or data involved in transitions through the network. This type serves two purposes. One is protected from unauthorized users, and the other is protection from malicious activities.

3. **Administrative Network Security:**

This level of network security protects user behavior like how the permission has been granted and how the authorization process takes place. This also ensures the level of sophistication the network might need for protecting it through all the attacks. This level also suggests necessary amendments that have to be done to the infrastructure.



Hands on training on Cyber Security on 22.08.2018

*Anita Patra*



Dr. Anita Patra, Registrar, CUTM

*[Signature]*



Convener



## List of Participants

**Name of Event:** Cyber Security System and Network Security

**Organized by:** Centurion University of Technology and Management

**Date:** 22 August 2018

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### List of Participants: -

	Name	Registration Number	Present/Absent
1	BINAMRA BIKASH SWAIN	170301140013	Present
2	RUDRA PRATAP PADHI	170301140014	Present
3	SABYASACHI DALA BEHERA	170301140016	Present
4	DARSHIKA SAMAL	170301140017	Present
5	AMBIKESH PRASAD	170301140018	Present
6	ANSHUMAN PATTNAIK	170301141019	Present
7	CHINMAY PADHI	160301140031	Present
8	ABISHEK NAYAK	160301141033	Present
9	ABDUL RAZAK	170301150002	Present
10	RITWIK PARIJA	170301150003	Present
11	SIBANANDA DAS	170301150005	Present
12	SAGAR KUMAR MAJHI	170301150007	Present
13	UDDESH KUMAR PATI	170301150008	Present
14	AMIYA RANJAN THAKUR	170301150009	Present
15	RUDRA NARAYAN GIRI	170301150011	Present
16	MILAN PRUSTY	170301150012	Present
17	PRITAM KUMAR TRIPATHY	170301150014	Absent
18	SIDDHARTH MISHRA	170301150016	Present
19	ABHISEK MOHANTY	170301150017	Absent
20	DEEPSHIKHA NAYAK	170301150018	Present
21	AMIT KUMAR	170301150019	Present
22	SITARAM BEHERA	170301150020	Present
23	AYUSH KUMAR	170301150022	Present
24	NITYA RANJAN BAL	170301151023	Absent
25	SUDIP BANGAL	170301151024	Present
26	ABINASH BARIK	170301151025	Present
27	BADRI BISHAL NANDA	170301151026	Present
28	SUKHETRA RANJAN SAHU	170301140001	Present

29	AMBIKESH PRATIKHYA RANJAN PARIDA	170301140002	Present
30	SANDEEP DEHURY	170301140004	Absent
31	SONALI MISHRA	170301140006	Present
32	SUBHRAJEET NAYAK	170301140007	Present
33	POOJA MAHARATHA	170301140010	Absent
34	SANDEEP PRADHAN	170301140012	Present
35	BINAMRA BIKASH SWAIN	170301140013	Present
36	RUDRA PRATAP PADHI	170301140014	Present
37	SABYASACHI DALABEHERA	170301140016	Present
38	DARSHIKA SAMAL	170301140017	Present
39	AMBIKESH PRASAD	170301140018	Present
40	ANSHUMAN PATTNAIK	170301141019	Present
41	RANJIT BHOOSHAN NAYAK	180301150001	Present
42	B. ESWAR	180301150002	Present
43	BISWAJEET BHATT	180301150003	Present
44	CHANDAN SWARUP NAYAK	180301150004	Present
45	SATYABRATA BEHERA	180301150005	Present
46	PRIYANKA PRIYADARSINI LAHA	180301150006	Present
47	SOUMYARANJAN SAHOO	180301150007	Present
48	ASHISH KUMAR LENKA	180301150008	Present
49	SAGAR KUMAR RATH	180301150009	Present
50	G.SAI KRISHNA	180301150010	Present
51	BISWSAJIT NAHAK	180301140001	Present
52	NABEELAH AHMED	180301140002	Present
53	TARUN KUMAR BHADRA	180301140003	Present

Anita Patra



Dr. Anita Patra, Registrar, CUTM

*[Handwritten Signature]*



Convener