

Report on the one day hands on workshop

on

'Cyber Security and Ethical Hacking'

The Department of Comp Science & Applications organized a one day hands on workshop on '**Cyber Security and Ethical Hacking**' to celebrate the annual event **SCTechZest 2018** on the **15th September, 2018**.

Shri A Chettri from **North Eastern Police Academy**, Umsaw, Meghalaya was the Resource Person for the workshop who shared his experience and knowledge with the student community regarding the theme.

With the world turning into one global village and the fact that most of the official work (private and public) is done through computer and computer systems, it is important to ensure security in such cases. All the necessary documents, information, and data are stored in a computer these days which shall be protected with utmost care. Following this, there is a lot of demand for cybersecurity and ethical hacking professionals to keep all the sensitive information protected from the hackers and develop new computer protecting the system.

Ethical Hacking includes few steps as follows:

- Reconnaissance.
- Scanning.
- Gaining Access.
- Maintaining Access.

- Covering Tracks.

Some of the most common **modes of ethical hacking** are shown here:

- Insider attack
- Outsider attack
- Stolen equipment attack
- Physical entry
- Bypassed authentication attack
- Social engineering attack
- Rules of Engagement
- Never exceed the limits of your authorization

Some of the **hacking techniques** that are commonly used to get personal information in an unauthorized way are as follows

- Keylogger
- Denial of Service (DoS\DDoS)
- Waterhole attacks.
- Fake WAP.
- Eavesdropping (Passive Attacks)
- Phishing.
- Virus, Trojan etc.

Google Dorks: An Easy Way of Hacking

The Google Search Engine finds answer to our questions, which is helpful in our daily lives. A Google Dork query, sometimes just referred to as a dork, is a search string that uses advanced search operators to find information that is not readily available on a website.

The basic syntax for advanced operators in Google is:
operator_name:keyword

Simple Google Dorks Syntax

site – will return website on following domain

allintitle and **intitle** – contains title specified phrase on the page

inurl – restricts the results contained in the URLS of the specified phrase

filetype – search for specified filetype formats

Using Google Dorks we can find the following data :

- Username and passwords
- Admin login pages
- Vulnerable entities
- Sensitive documents
- Govt/military data
- Email lists
- Bank account details and lots more

Over the decades of the internet's existence, cyber threats have evolved at a rapid pace. Malware is the short version of the word malicious software. And this is a general term that encompasses many types of online threats including spyware, viruses, worms, trojans, adware, ransomware and more. The purpose of malware

is to specifically infect and harm your computer and potentially steal your information.

Here are four of today's most common cyber threats and the tips for Cyber security.

Virus – like a virus that can infect a person, a computer virus is a contagious piece of code that infects software and then spreads from file to file on a system. When infected software or files are shared between computers, the virus then spreads to the new host. The best way to protect yourself from viruses is with a reliable antivirus program that is kept updated.

Spyware – just like a spy, a hacker uses spyware to track your internet activities and steal your information without you being aware of it. Credit card numbers and passwords are two common targets.

Worms – similar to viruses, worms also replicate themselves and spread when they infect a computer. The difference, however, between a worm and a virus is that a worm doesn't require the help of a human or host program to spread. Instead, they self-replicate and spread across networks without the guidance of a hacker or a file/program to latch onto.

Trojan – this type of malware is disguised as a safe program designed to fool users, so that they unwittingly install it on their own system, and later are sabotaged by it. Generally, the hacker uses a trojan to steal both financial and personal information.

For Cyber security we also employ **Open Source Intelligence**. (OSINT) refers

to a collection of data from public sources to be used in an intelligence context, and this type of information is often missed by link crawling search engines such as Google.

Five OSINT techniques that bring intelligence to the enterprise are:

- Supply chain risk management and OSINT techniques.
- CEO business meeting planning
- Asset protection
- Country factbook monitoring
- Customer satisfaction analysis.

In conclusion, **An ethical hacker** is a computer and networking expert who systematically attempts to penetrate a computer system or network on behalf of its owners for the purpose of finding security vulnerabilities that a malicious hacker could potentially exploit.

Bc A 3rd Sem




"SCTechZest"

One day workshop

Venue : Department of Computer Sc. & Applications, Shillong College

Date : 15th September, 2018

REGISTRATION (Students)

Sl No.	Name	Name of Institute	Contact No.	Signature
1	RONHSAJI MOSHAHARI	SHILLONG COLLEGE	8974750256	
2	NATHANIEL KURBAH	SHILLONG COLLEGE	9485144603	
3	EDILBERT KHARKONCJOR	SHILLONG COLLEGE	8415857027	

(3rd sem)

Mrs A.Mitri
HOD

Ms. I.Kharmawphlang
Organizer

B. Sc.

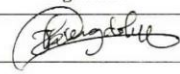
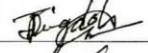

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Sl No.	Name	Name of Institute	Contact No.	Signature
1 st Sem	1. John Kennedy Diengdah	Shillong College	7005 817843.	
2 nd Sem	2. David Khongah	Shillong College		D. Khongah
3 rd Sem	3. Naphisabet Suett	Shillong college	9774837975	N. Suett
4 th Sem	4. Sarita Thapa	Shillong college	8794518426	S. Thapa.
5 th Sem	5. John Robert Diengdah	Shillong College	8014246583	
B.A. 3 rd Sem	6. Andrew Kharsling	Shillong College	7085251052	

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Organizer

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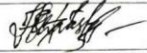





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Sl No.	Name	Name of Institute	Contact No.	Signature
(1 st Sem)	1 Charles B. Wongsbung	Shillong College	8414803712	
(1 st Sem)	2 Shishamlang E. Kharmen	Shillong College	8731828212	
(3 rd Sem)	3 Aishwamitre Tympuni	Shillong college	7005417307	A. Tympuni
(5 th Sem)	4 Wanka Bi-am	Shillong College	8794155229	
"	5. Ricky Paul Lyngdoh	Shillong College	8257057142	
"	6 Aminshel Kharsensaw	Shillong college	87949237476	
"	7. Jary Lyngkhai	Shillong College	7628865446	
"	8. Milda S. Lamin	Shillong College	9402382309	MSamin
"	9. Ravi Deka	Shillong College	9774279051	(R.Deka)
"	10. Rajdeep Koch	Shillong College	8731802326	R.Koch

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REGISTRATION (Students)

SI No.	Name	Name of Institute	Contact No.	Signature
5 th sem	Saphisabet Nongtraw	Shillong College	8575454824	<i>Sytw.</i>
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"	Damaudhalang Shabong	"	9774954477	<i>Shabong</i>
"	Balarisha Myrthong	"	9862821185	<i>B. Myrthong</i>
"	Shalenstar Rani	"	8837242321	<i>Rani</i>
1 st sem	Hilarious Mallai	"	8132009956	<i>H. Mallai</i>
5 th sem	Daebiangmi Khorsat	"	8794459747	<i>Khorsat</i>
"	Drivingwell Rani	"	9378189772	<i>Rani</i>
"	Ponshongdor Phambuh	"	8787305942	<i>Phambuh</i>
"	Miriam Phambuh	"	8259873305	Miriam

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REGISTRATION (Students)

SI No.	Name	Name of Institute	Contact No.	Signature
✓ BCA 1 st Sem	Rejoicy M. Lyngdoh	Shillong College	-	Dangdoh
✓ BCA 3 rd Sem	MORIAH N. J. SANKHAR	Shillong College	9612109477	M. Sankhar
✓ BCA 3 rd Sem	John Bosco K. Snao	Shillong College	9862641904	D
✓ BCA 5 th Sem	Sapana Fullel	Shillong College	9774120875	Fullel
✓ BCA I Sem	KYNSAILANG KHARLOR	" "	8794271373	Kharlor
✓ "	RUDOLF J L NONGLAIT	" "	9612954370	Ryngdoh
✓ "	ANDYGIFT L NONGBRI	" "	9077310557	Andy
✓ "	NIELSHEMPHANG POHWONG	Shillong College	7085394080	Npawng
✓ "	Sanberlay Khongtum	" "	9774916879	S
✓ "	Lemintous Rymah	" "	8258091229	Lemintous

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BCA 3rd Sem









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Sl No.	Name	Name of Institute	Contact No.	Signature	
✓ 1	IBAPYNTNLEN LAITMON	SHILLONG COLLEGE	8256963186		(1 st Sem)
2	CHEERLYNE KHARBANI	SHILLONG COLLEGE	8258965683	C.K. Bani	(1 st Sem)
3	VINCE NABOR KHARBUKI	SHILLONG COLLEGE	7628861370		(1 st Sem)
4	MARTILIN & NONGBRI	SHILLONG COLLEGE	8731049191		(3 rd Sem)
5	OBEDIENCY SAVTO SYIH	SHILLONG COLLEGE	7085718579		(3 rd Sem)
6	BAPLINSISHA RYNTATHIANG		8258853577		(3 rd Sem)
7	Nohanna D. Sangma	SHILLONG COLLEGE	9436591114		(3 rd Sem)
8	JEFFERSON GALLONG	SHILLONG COLLEGE	8837391835		(3 rd Sem)
9	ELY MARY LYNGBOH	SHILLONG COLLEGE	8413085992		(3 rd Sem)
10	BADARISHA RANGTONG	SHILLONG COLLEGE	8131996477	B. Rangtong	(3 rd Sem)

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5th Semester BCA

"SCTechZest"

One day workshop

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Date : 15th September, 2018

REGISTRATION (Students)

Sl No.	Name	Name of Institute	Contact No.	Signature
(3 rd Sem)	1 Donick Mokedoh	Shillong College	9774489388	D. Mokedoh.
(1 st Sem)	2 Supero Melio Suchiang	Shillong College	8974130752	S. Suchiang
(1 st Sem)	3 Phubansara Kharbran	Shillong College	6909192406	Pharbran
(1 st Sem)	4 Banyella Kharbani	Shillong College	9485072369	B. Kharbani
(1 st Sem)	5 Sweety Mary Syiemlieh	Shillong College	9436590093	Syiemlieh
(1 st Sem)	6 Earykornson Nongkaj	Shillong College	8732060019	Nongkaj
(3 rd Sem)	7 Hehkupau Lyngsuor	Shillong College	8837097494	Lyngsuor
(3 rd Sem)	8 Shaihunkhine Lyngdoh	Shillong College	9612291720	Lyngdoh
1 st Sem	9 Chandalang Mukhim	Shillong College	7641040178	Mukhim
(3 rd Sem)	10 Darikya War	Shillong College	9774459038	D. War

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B C A ~~1st Sem~~

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REGISTRATION (Students)

	Sl No.	Name	Name of Institute	Contact No.	Signature
(1 st Sem)	11	Zachariah Rani	Shillong College	7640070915	<i>Zachariah Rani</i>
(1 st Sem)	12	Banshongdor Khamudi	"	8974597912	<i>B.khamudi</i>
(3 rd Sem)	13	Effullian Syiemlieh	"	8794274576	<i>Effullian Syiemlieh</i>
(1 st Sem)	14	Samiti Ning	"	8794871673	<i>Samiti Ning</i>
1 st Sem	15	Basilishisha Rujiah	"	9402555083	<i>Basilishisha Rujiah</i>
1 st Sem	16	Lekpai Kai Ra	"	7005171138	<i>Lekpai Kai Ra</i>
1 st Sem	17	Hakaru Chymang	"	8257847116	<i>H. Chymang</i>
1 st Sem	18	Mihasuk Syad	"	8787513891	<i>M. Syad</i>
1 st Sem	19	Pragati Kumari	"	7005316073	<i>Pragati Kumari</i>
	20	Rapunglang Nongkhon	"	8974576322	<i>R. Nongkhon</i>

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Organizer

B c A

"SCTechZest"**One day workshop**

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Date : 15th September, 2018**REGISTRATION (Students)**

Sl No.	Name	Name of Institute	Contact No.	Signature
5 th Sem	31. Dipankhen Klonglah	Shillong college	-	<i>[Signature]</i>
3 rd Sem	32. Bapamlain D. Fancan	Shillong college	8014026174	<i>[Signature]</i>
1 st Sem	33. Suresh Jimi	Shillong College	7005396656	<i>[Signature]</i>
1 st Sem	34. Robert Infimate	Shillong college	7005710631	<i>[Signature]</i>
5 th Sem	35. Ram Shadap	Shillong College	8257087245	<i>[Signature]</i>
3 rd Sem	36. Vijay Reins Wahlang	Shillong college	8131848781	<i>[Signature]</i>
3 rd Sem	37. Macdonald Khonglam	Shillong college	9724408269	<i>[Signature]</i>
3 rd Sem	38. Petrus Bokgor	Shillong college	825904994	<i>[Signature]</i>
2 nd Sem	39. Nika Eini Okhar	"	9089675391	<i>[Signature]</i>
	40. Jesus Schkhet	"	8970436665	<i>[Signature]</i>

Mrs A. Mitri
HODMs. I. Kharmawphlang
Organiser

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REGISTRATION (Students)

Sl No.	Name	Name of Institute	Contact No.	Signature
1.	HIMANGSHU KUMAR BASISTHA	ST. EDMUND'S COLLEGE	9957630488	Himangshu
2.	D. S. DANI	ST. EDMUND'S COLLEGE	9774334170	Dani
3	PREETI THAPA	ST. EDMUND'S COLLEGE	9862041449	P.T.
4.	ARJUN CHETTRI .			

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Mrs A.Mitri
HOD

Ms. I Kharmawphlang
Organizer

BCA 3rd Sem

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REGISTRATION (Students)

Sl No.	Name	Name of Institute	Contact No.	Signature
1	ANIDAHUN DKHAR	SHILLONG COLLEGE	8132003268	A-Dkhar
2	SEISOIBHALIW SOHJON	"	8787523865	S. Sohjun
3	PHIDARISHA RANG	"	9774282823	Rani
4	ANGELBERT RANTAM	"	8787867557	Angly
5	LAIPYNSKHEM WAHSPHEH	"	7005908965	I. Wahspheh
6	FELEEN RANI	"	-	F. Rani
7	SYMBOL SHY NONGBRI	"	-	S. Nongbri
8	LUXSHAI NONGKHAN	"	-	L. Nongkhan
9	KYNNOW BANU	"	7163894119	K. Banu

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Organizer

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




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	Sl No.	Name	Name of Institute	Contact No.	Signature
1 st Sem	21	Mohan.K. Shangphiang	Shillong College	9774399027	M. Shangphiang
1 st Sem	22	Andrew R. Kharvaion	Shillong College	7005148647	A.R. Kharvaion
1 st Sem	23	Airmanson Tongper	Shillong College	8132002886	
1 st Sem	24	Athlang Kharvaion	"	7005721576	
3 rd Sem	25	Lashang K. Synteng	Shillong College	8794585944	
3 rd Sem	26	Evan Stee Majaw	"	8415043215	E. Majaw
3 rd Sem	27	Dalain Cajee	"	9615151327	
3 rd Sem	28	Indrajit Ram	"	8131961700	
3 rd Sem	29	Valbert H. Marak	"	8414078624	
5 th Sem	30	Bandara Khatam	Shillong College	87326.62285	

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Organizer

BCA 3rd Sem

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REGISTRATION (Students)

Sl No.	Name	Name of Institute	Contact No.	Signature	
01.	Devanta Singh.	Shillong College	9082603855	Devanta .	(1 st)
02.	Rocky Marwit	Shillong College	89741318622	Plawet.	(1 st)
03.	Gideon Rumnong	Shillong College	8794795198	Rumnong	(1 st)
04.	Kyrshanokham Targoi	Shillong college	9774322132	Raji	(3 rd)
05.	Hera A. Sangma	Shit			
5	GEOFFREY G. MARWEIN	Shillong College	8119095796	Gyabwer	1 st
6	Wenance Olivier Sonang	Shillong college	8259934745	Quang	1 st
7.	IBADONDORSHISHA SYIERKHAI	Shillong College	7085280487	I. Syierkh.	3 rd Sem
8.	DEVCOISHKA D. MITZI	Shillong College	8794648306	D. Mitzi	3 rd Sem
9.	Preeya Lakuma	Shillong College	9612085343	Rakuma	3 rd Sem

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1st Semester BCA

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REGISTRATION (Students)

Sl No.	Name	Name of Institute	Contact No.	Signature
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2	Deyed Khumbat	Shillong College		<i>[Signature]</i>
3	Somuramba Nongthayam	Shillong College	8974097484	Somuramba N
4	Ribeklang L. Lymmar	Shillong College	8259098368	<i>[Signature]</i>
5	Kyphlawshawn Kyllien	Shillong College	8974028338	<i>[Signature]</i>
6	Steven Nongkhlaw	"	8257856880	S. Nongkhlaw
7	Jansiedon Syiemlieh	"	9774757257	<i>[Signature]</i>
8	Robina Mary Kurba	Shillong College	7642007908	<i>[Signature]</i>
9	Lapynbiangshisha Kurba	" "	8794683959	<i>[Signature]</i>
10	Banrilang Rani	" "	8794039549	<i>[Signature]</i>

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



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1.	Phindaisha Maurice	Shillong College	8131995480	
2.	Ruth Mukhim	"	7005604494	R. Mukhim
3.	Belawen Khongit	"	7627962721	Khongit
4.	Badapoi K. kongoi	"	8837012408	Badapoi
5.	Bateilang Rynjah	"	8257003414	
6.	Krisdoyto Khonglah	"	7085288247	
7.	Runnita Phawa	"	9486139200	
8.	Bansraplang Suer (Bansraplang)	"	9402577121	
9.	Heva Sangma	"	8731845537	H. Sangma
10.	Thrang EO Lamare	"	8837394602	

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