Cyber **Security** As A Career & **Roadmap!**

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"Hacking Is Spirit
Of Innovation And
Romance With
Technology. \$"

Why Security?

Why Cyber Security?

- 1. Top Skill That Industry Demands
- 2. Never Gonna End!
- 3. Challenging

What To Study & How?

- 1. If In School (+2)
- 2. If In College (Fresher)
- 3. After Graduation (UG)
- 4. As Hobby!

• If In: Dilemma

- School: Go For Science/Commerce With Computer Science / Informatics Practices (Or Any Computer Related Subject)
- 2. Got To Start College: BCA/B.TECH/B.E
- 3. As Hobby (You Can Start Any time)

There's No Job To Be Termed As Ethical Hacker!! Is Cyber Sec Is
Limited To Bug
Bounty/PT/VA?

What **Infosec** One Do As Job ??

- Security Professional.
- Tests The Security And Identifies Loopholes.
- Create Reports And Analysis
- Authorized With Proper Permissions.
- Earns money And Respect Too

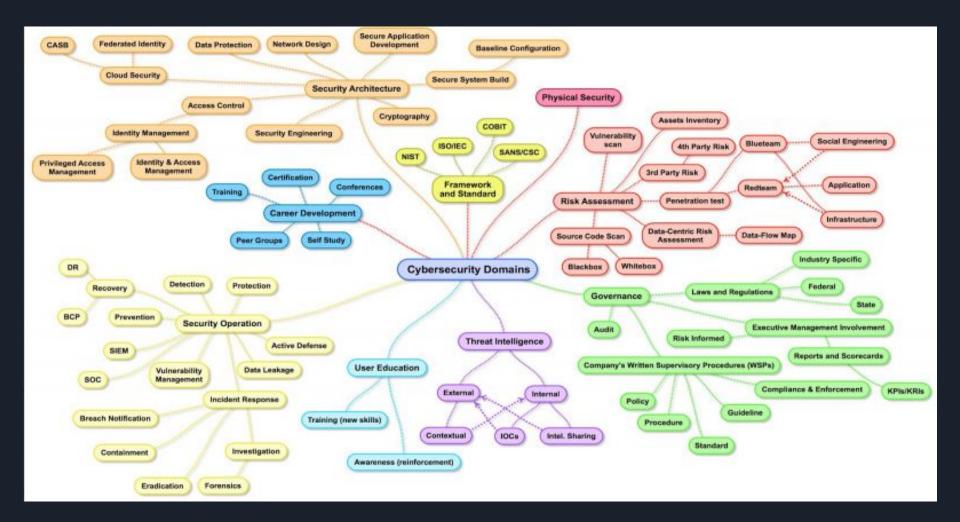
Domains In Cyber Security **World**?

Domains In Infosec

- Application Security: Web, App, API
- Forensics: Computer 4n6 & Digital Evidences
- Malware Analysis & Reverse Engineering
- Vulnerability Assessment & Exploit Development
- Pentesting: RFID, IOT, Web App
- Decentralised Systems: Blockchain & IOT
- Hardware Security: SDR, Car Hacking Etc

Future Domains In Infosec

- Vehicle Pentesting
- Drone Hacking
- Automations Using Quantum Computing
- CAR Hacking
- VolP



NCSS 2020

NCSS 2020

India's Strategy for a safe, secure, trusted, resilient and vibrant Cyberspace



NATIONAL CYBER SECURITY STRATEGY 2020 (NCSS 2020)

Call for Comments

- 1. Need for NCSS 2020 India was one of the first few countries to propound a futuristic National Cyber Security Policy 2013(NCSP 2013). Since the adoption of NCSP 2013, the technologies, platforms, threats, services and aspirations have changed tremendously. The transformational Digital India push as well as Industry 4.0 is required to be supported by a robust cyberspace. However, Cyber intrusions and attacks have increased in scope and sophistication targeting sensitive personal and business data, and critical information infrastructure, with impact on national economy and security. The present cyber threat landscape poses significant challenges due to rapid technological developments such as Cloud Computing, Artificial Intelligence, Internet of Things, 5G, etc. New challenges include data protection/privacy, law enforcement in evolving cyberspace, access to data stored overseas, misuse of social media platforms, international cooperation on cybercrime & cyber terrorism, and so on. Threats from organised cybercriminal groups, technological cold wars, and increasing state sponsored cyber-attacks have also emerged. Further, existing structures may need to be revamped or revitalised. Thus, a need exists for the formulation of a National Cyber Security Strategy 2020.
- 2. Formulation The Indian Government under the aegis of National Security Council Secretariat through a well-represented Task Force is in the process of formulating the National Cyber Security Strategy 2020 (NCSS 2020) to cater for a time horizon of five years (2020-25).
- 3. Vision Proposed vision is to ensure a safe, secure, trusted, resilient and vibrant cyber space for our Nation's prosperity.
- 4. Pillars of Strategy We are examining various facets of cyber security under the following pillars:
 - a. Secure (The National Cyberspace)
 - b. Strengthen (Structures, People, Processes, Capabilities)
 - c. Synergise (Resources including Cooperation and Collaboration)
- 5. Submissions We wish to get your views on each of the above-mentioned aspects. You may comment, on any or all of the above-mentioned aspects or additional aspects, in a constructive and meaningful manner. Please contribute to make this strategic document a comprehensive 'whole-of-nation' approach for securing our cyberspace.

Any questions?

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