



## Cyber Security

**For Prelims:** Cyber Surakshit Bharat Initiative, Cyber Swachhta Kendra, Online cybercrime reporting portal,

**For Mains:** Issue of Cyber Security, Steps that needs to be taken.

### Why in News?

Recently, CERT-In has **asked all government and private agencies to mandatorily report cyber security breach incidents to it within six hours of noticing them.**

- CERT-In is empowered under **Section 70B of the [Information Technology Act](#)** to collect, analyse and disseminate information on cyber security incidents.

### What is CERT-IN?

- **Computer Emergency Response Team** - India is an organisation of the Ministry of Electronics and Information Technology with the objective of securing Indian cyberspace.
- It is the nodal agency which deals with cybersecurity threats like hacking and phishing.
- It collects, analyses and disseminates information on cyber incidents, and also issues alert on cybersecurity incidents.
- CERT-IN provides Incident Prevention and Response Services as well as Security Quality Management Services.

### What are the Mandates of the CERT-In?

- **Mandatorily Enable Logs:**
  - It **mandates all service providers**, intermediaries, data centres, corporates and government organisations to mandatorily enable logs of all their ICT (**[Information and Communication Technology](#)**) systems.
    - The service providers **has to maintain the logs securely for a rolling period of 180 days**, and the same shall be maintained within the Indian jurisdiction.
      - The log **should be provided to CERT-In along with reporting** of any incident or when directed by the computer emergency response team.
- **Connect and Synchronize all ICT systems:**
  - To ensure the chain of events is accurately reflected in the time frame, service providers have been asked **to connect and synchronize all their ICT systems clocks to the Network Time Protocol (NTP)** Server of the National Informatics Centre (NIC) or National Physical Laboratory (NPL).
    - NTP is a protocol used for reliably transmitting and receiving accurate time sources over TCP/IP-based networks.

- It is used for synchronizing the internal clock of computers to a common time source.
- **Requires Maintaining Records:**
  - It also require **virtual asset, exchange, and custodian wallet providers to maintain records on KYC and financial transactions for a period of five years.**
    - Companies providing cloud, virtual private network (VPN) will also have to register validated names, emails, and IP addresses of subscribers.

## What is the Need of Such Initiative?

- **Address the issue Hindrance:**
  - It will address the issue of hindrance in the analysis of breach incidents in handling cyber incidents.
- **Streamline the Date Records:**
  - There have been **cases in the past where cases of non-storage or availability of data** and proper records with intermediaries and service providers have been identified.
    - These guidelines **will streamline the date records** to be maintained and proper reporting of security incidents to CERT-In.
- **Address the Users Right to Know:**
  - End-user has the right to know if their data is loaded so that an individual can protect himself from fraud transactions, fake loans, ID misuse etc.
    - Government should also force companies to inform their users within 24 hours of the incident.
  - Many users are still unaware if their **KYC (Know Your Customer)** and financial data is safe or not.

## What are Government Initiatives for Cyber Security?

- [Cyber Surakshit Bharat Initiative](#)
- [Cyber Swachhta Kendra](#)
- [Online cybercrime reporting portal](#)
- [Indian Cyber Crime Coordination Centre \(I4C\)](#)
- [National Critical Information Infrastructure Protection Centre \(NCIIPC\)](#)
- [Information Technology Act, 2000](#)
- [National Cyber Security Strategy 2020](#)

## Way Forward

- India is the **one of the fastest digital adapters** among 17 of the most-digital economies globally, and rapid digitisation does require forward-looking measures to boost cybersecurity.
- It is **important for the corporates or the respective government departments to find the gaps in their organisations** and address those gaps and create a layered security system, wherein security threat intelligence sharing is happening between different layers.
- There is a **need for an apex body to ensure operational coordination** amongst various agencies and ministries.

## UPSC Civil Services Examination, Previous Year Questions (PYQs)

**Q. In India, it is legally mandatory for which of the following to report on cyber security incidents? (2017)**

1. Service providers
2. Data centres
3. Body corporate

**Select the correct answer using the code given below:**

(a) 1 only

(b) 1 and 2 only

(c) 3 only

(d) 1, 2 and 3

**Ans: (d)**

- According to section 70B of the Information Technology Act, 2000 (IT Act), the Union Government by notification should appoint an agency named Indian Computer Emergency Response Team (CERT-In) to serve as the national agency for incident response.
- The Union Government under section 70B of the IT Act, 2000 established and notified rules of CERT-In in 2014. According to Rule 12(1)(a), it is mandatory for service providers, intermediaries, data centers and corporate bodies to report cyber security incidences to CERT-In within a reasonable time of occurrence of the incident. Hence, 1, 2 and 3 are correct. Therefore, option (d) is the correct answer.

**Source: TH**

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