Fighting the Ransomware

Why in news?

 $n\n$

Ransomware has been contained globally, but the threat is not completely eliminated.

 $n\n$

What is the issue?

 $n\n$

\n

- One group of hackers picked up cyber tools stolen by another from America's National Security Agency, and then effectively "weaponized" them to hold hostage millions of computers across the world.
- Users, mostly using older version of the Microsoft Windows software, were locked out of their computer and told to pay a ransom in bitcoins if they wanted to get back in.
- Though the attack was contained soon enough, the ransomware still managed to infect many European Public systems, Universities in China and a multinational courier delivery company in the US.
- India was reportedly one of the worst-affected countries although, notably, no major mass disruptions were reported.
- \bullet As for the hackers, they made just about a paltry \$100,000 in bitcoins which they are unlikely to be able to access anytime soon. \n

 $n\n$

How such kind of attacks can be prevented?

\n

• A good starting point is the three-layered Israeli strategy that goes beyond security to build a cyber system that is robust, resilient and has strong defence capabilities.

۱n

• Think of the country's IT infrastructure as a human body.

 $n\n$

\n

- \bullet The first level, the body needs a robust immune system to protect it from everyday attacks without disrupting the flow of work. \n
- The second level—that of building resilience, Think of the Indian Computer Emergency Response Team as the cyber equivalent of the Centres for Disease Control and Prevention in the US.
- The third level is that of national defence, wherein there is a direct threat to the state and its citizens. The government takes the lead role here but, importantly, its success depends on the robustness and resilience of the system as a whole.

 $n\n$

What is the status of the threat?

 $n\n$

\n

 The fact that this attack could have been much worse had it, for example, not been designed to extort money but to actually take down critical infrastructure systems, high-value military targets or even nuclear installations.

۱n

• Yet, as this latest attack testifies, the world is still playing catch-up and several vulnerabilities remain.

\n

- The vulnerabilities will continue to grow as our daily lives are further integrated into the cyber arena.
- The situation is arguably worse in developed nations which are far more dependent on the Internet—for example, last year hackers broke into a US water supply company and manipulated its water treatment systems.
- But developing countries, including India, can hardly afford to be

complacent. After all, if cyberattacks in previous years could lead to huge monetary losses, today they can cost lives. $\$

 $n\n$

What is the way forward?

 $n\n$

۱n

• Traditional security concepts and frameworks have struggled to adapt in the cyber arena.

\n

 The lack of cybersecurity is a real concern, posing an imminent threat to the life and well-being of citizens, few states take direct responsibility for the cybersecurity of civilian assets.

۱n

- This includes not just critical infrastructure networks such as power lines and stock markets but also individuals and business organizations.
- In the cyber realm, it is equally difficult to trace and track the enemy; and even when one is neutralized, several others appear in no time.
- Fighting this hydra-headed monster is a challenge, to say the least, but it is one that must be tackled head on.
- \bullet This has to be a collective effort involving all stakeholder industry, academia, foreign partners and private individuals. $\mbox{\sc h}$

 $n\n$

 $n\n$

Source: Live Mint

\n

