Fighting the Ransomware

Why in news?

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

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What is the issue?

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- 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.
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- 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.
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- 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.
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- India was reportedly one of the worst-affected countries although, notably, no major mass disruptions were reported.
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- 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.
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How such kind of attacks can be prevented?

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- 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.
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- Think of the country’s IT infrastructure as a human body.
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- The first level, the body needs a robust immune system to protect it from everyday attacks without disrupting the flow of work.
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- 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.
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- 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.
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What is the status of the threat?

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- 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.
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- Yet, as this latest attack testifies, the world is still playing catch-up and several vulnerabilities remain.
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- The vulnerabilities will continue to grow as our daily lives are further integrated into the cyber arena.
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- 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.
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- 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.

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What is the way forward?

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- Traditional security concepts and frameworks have struggled to adapt in the cyber arena.
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- 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.
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- This includes not just critical infrastructure networks such as power lines and stock markets but also individuals and business organizations.
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- 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.
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- Fighting this hydra-headed monster is a challenge, to say the least, but it is one that must be tackled head on.
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- This has to be a collective effort involving all stakeholder industry, academia, foreign partners and private individuals.
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Source: Live Mint

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