

- (xviii) CERT-In is conducting cyber security trainings for IT/cyber security professionals including Chief Information Security Officers (CISOs) of Government and critical sector organisations. 14 training programs covering 431 participants and 13 training programs covering 329 participants were conducted during 2016 and 2017 (till June).
- (xix) Ministry of Electronics and Information Technology (MEITY), regularly conducts programs to generate 'information security awareness'. Specific books, videos and online materials have been developed for children, parents and general users about 'information security' which are disseminated through Portals like "<http://infosecawareness.in/>" and "[www.cyberswachhtakendra.in](http://www.cyberswachhtakendra.in)"

#### **Ransomware attack on Government computers**

1546. SHRI SANJAY RAUT: Will the Minister of ELECTRONICS AND INFORMATION TECHNOLOGY be pleased to state:

- (a) the effect of the ransomware attack on Government computers;
- (b) whether any sensitive data was stolen;
- (c) the overall extent of the damage;
- (d) the measures taken to reduce the effect of the attack and to ensure quick elimination; and
- (e) the corrective action being taken to increase security and to protect information in case of a similar attack in the future?

THE MINISTER OF STATE IN THE MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY (SHRI P.P. CHAUDHARY): (a) to (c) Propagation of ransomware called WannaCry/WannaCrypt has been reported in many countries around the world including India since 12 May, 2017. Propagation of another ransomware called Petya was also reported since 27 June, 2017. Ransomware is a type of malicious software that infects a computer and restricts users' access to affected files by encrypting them until a ransom is paid to unlock it, thus rendering them unusable till recovery/cleaning is performed.

As on date, 4 incidents from Central Government Departments and 4 incidents from state Government Departments have been reported to the Indian Computer Emergency Response Team (CERT-In) regarding infections of Wannacry ransomware. As reported to CERT-In, operations of one sea-port were partially affected by the Petya ransomware. Remedial measures to contain damage and prevent such incidents

have been advised by CERT-In.

(d) The following measures are taken to mitigate recent ransomware attacks:

- (i) CERT-In issued an advisory regarding detection and prevention of Wannacry ransomware on its website on 13 May 2017. Advisory regarding detection and prevention of Petya ransomware was issued by CERT-In on 27 June 2017.
- (ii) CERT-In had issued a vulnerability note on its website with a Severity Rating of high on March 15, 2017 providing information regarding vulnerabilities in Microsoft Windows systems which have been exploited by Wannacrypt and Petya ransomware alongwith remedial measures.
- (iii) CERT-In informed various key organisations across sectors in the country regarding the ransomware threat and advised measures to be taken to prevent the same.
- (iv) Free tools for detection and removal of Wannacrypt and Petya ransomware were provided on the website of Cyber Swachhta Kendra ([www.cyberswachhtakendra.gov.in](http://www.cyberswachhtakendra.gov.in)).

(e) The following measures are taken to mitigate recent ransomware attacks and enhance cyber security in the country, namely:-

- (i) CERT-In issues alerts and advisories regarding latest cyber threats/vulnerabilities and countermeasures to protect systems and mobile devices.
- (ii) Security tips are published for users to secure their Desktops and mobile/smart phones.
- (iii) Government has launched the Cyber Swachhta Kendra (Botnet Cleaning and Malware Analysis Centre). The centre is providing detection of malicious programs and free tools to remove the same for banks as well as common users.
- (iv) Government has formulated Crisis Management Plan for countering cyber attacks and cyber terrorism for implementation by all Ministries/ Departments of Central Government, State Governments and their organizations and critical sectors
- (v) Cyber security mock drills are being conducted regularly to enable assessment of cyber security posture and preparedness of organizations in Government and critical sectors. 15 such drills have so far been conducted by CERT-In where 148 organisations from different States and sectors such as Finance, Defence, Power, Telecom, Transport, Energy, Space, IT/ITeS, etc participated. 4 such drills have been conducted specifically for

ransomware scenarios to enable preparedness of organisations for such threats.

- (vi) Government has empanelled 54 security auditing organisations to support and audit implementation of Information Security Best Practices.
- (vii) Government has published Guidelines for Chief Information Security Officers (CISOs) for Secure Applications and Infrastructure. Government has also specified key roles and responsibilities of CISOs in Ministries/Departments and Organisations managing ICT operations.

**Study to identify cyber threats**

1547. SHRI ANIL DESAI:

SHRI SANJAY RAUT:

SHRI K.C. RAMAMURTHY:

Will the Minister of ELECTRONICS AND INFORMATION TECHNOLOGY be pleased to state:

(a) whether Government has taken any steps to control the rising trend of cyber attacks in the country, if so, the details thereof; and

(b) whether any study has been conducted to identify the cyber threats in the country?

THE MINISTER OF STATE IN THE MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY (SHRI P.P. CHAUDHARY): (a) Government has taken a number of legal, technical and administrative policy measures for addressing cyber security. These include the following, namely:-

- (i) Enactment of the Information Technology (IT) Act, 2000 which has adequate provisions for safety of sensitive personal information.
- (ii) Government is implementing a Framework for enhancing cyber security with a multi-layered approach for ensuring defence-in-depth and clear demarcation of responsibilities among the stakeholder organizations in the country.
- (iii) Government has established National Critical Information Infrastructure Protection Centre (NCIIPC) as per the provisions of Section 70A of the IT Act, 2000 for protection of Critical Information Infrastructure in the country.
- (iv) The CERT-In, a statutory authority under IT Act, 2000, issues alerts and advisories regarding latest cyber threats and countermeasures on regular