

Step 1: Installing Security Patch:

Critical Alert

Wannacry/ WannaCrypt Ransomware

What you need to know about the WannaCry Ransomware

It has been reported that a new ransomware named as "Wannacry" is spreading widely. WannaCry ransomware spreads aggressively across networks, holds files to ransom.

Wannacry encrypts the files on infected Windows systems. This ransomware spreads by using a vulnerability in implementations of Server Message Block (SMB) in Windows systems. This exploit is named as ETERNALBLUE.

Best practices to prevent ransomware attacks:

- Maintain updated Antivirus software on all systems
- Check regularly for the integrity of the information stored in the databases.
- Regularly check the contents of backup files of databases for any unauthorized encrypted contents of data records or external elements, (backdoors /malicious scripts.)
- Ensure integrity of the codes /scripts being used in database, authentication and sensitive systems
- Establish a Sender Policy Framework (SPF) for your domain, which is an email validation system designed to prevent spam by detecting email spoofing by which most of the ransomware samples successfully reaches the corporate email boxes.
- Keep the operating system third party applications (MS office, browsers, browser Plugins) up-to-date with the latest patches.
- Application whitelisting/Strict implementation of Software Restriction Policies (SRP) to block binaries running from %APPDATA% and %TEMP% paths. Ransomware sample drops and executes generally from these locations.
- Perform regular backups of all critical information to limit the impact of data or system loss and to help expedite the recovery process. Ideally, this data should be kept on a separate device, and backups should be stored offline.
- Don't open attachments in unsolicited e-mails, even if they come from people in your contact list, and never click on a URL contained in an unsolicited e-mail, even if the link seems benign. In cases of genuine URLs close out the e-mail and go to the organization's website directly through browser
- Follow safe practices when browsing the web. Ensure the web browsers are secured enough with appropriate content controls.
- Network segmentation and segregation into security zones - help protect sensitive information and critical services. Separate administrative network from business processes with physical controls and Virtual Local Area Networks.
- Disable ActiveX content in Microsoft Office applications such as Word, Excel, etc.
- Disable remote Desktop Connections, employ least-privileged accounts.
- If not required consider disabling, PowerShell /windows script hosting.
- Restrict users' abilities (permissions) to install and run unwanted software applications.

- Enable personal firewalls on workstations.
- Implement strict External Device (USB drive) usage policy.
- Employ data-at-rest and data-in-transit encryption.
- Consider installing Enhanced Mitigation Experience Toolkit, or similar host-level anti-exploitation tools.
- Block the attachments of file types, exe|pif|tmp|url|vb|vbe|scr|reg|cer|pst|cmd|com|bat|dll|dat|hlp|hta|js|wsf
- Carry out vulnerability Assessment and Penetration Testing (VAPT) and information security audit of critical networks/systems, especially database servers from CERT-IN empaneled auditors. Repeat audits at regular intervals.
- Individuals or organizations are not encouraged to pay the ransom, as this does not guarantee files will be released. Report such instances of fraud to CERT-In and Law Enforcement agencies

In order to prevent infection, users and organizations are advised to apply patches to Windows systems as mentioned in Microsoft Security Bulletin MS17-010.

<https://technet.microsoft.com/library/security/MS17-010>

For any further detail on the same you can visit Indian Computer Emergency Response Team website at

http://www.cyberswachhtakendra.gov.in/alerts/wannacry_ransomware.html

Step 2: Network Setting

Network and Sharing Center

Control Panel > All Control Panel Items > Network and Sharing Center

Control Panel Home | View your basic network information and set up connections

View your active networks

Network
Public network

Access type: Internet
Connections: Ethernet

Change your networking settings

Set up a new connection or network

Ethernet Status

Ethernet Properties

Internet Protocol Version 4 (TCP/IPv4) Properties

Advanced TCP/IP Settings

IP Settings DNS

WINS addresses, in order of use:

Add... Edit... Remove

If LMHOSTS lookup is enabled, it applies to all connections for which TCP/IP is enabled.

Enable LMHOSTS lookup Import LMHOSTS...

NetBIOS setting

Default:
Use NetBIOS setting from the DHCP server. If static IP address is used or the DHCP server does not provide NetBIOS setting, enable NetBIOS over TCP/IP.

Enable NetBIOS over TCP/IP

Disable NetBIOS over TCP/IP

OK Cancel

See also

- HomeGroup
- Infrared
- Internet Options
- Windows Firewall

Firewall Setting

