



|  | 通告:有關 WannaCry 勒索軟件的資訊  |
|--|---|
| 5日12日早上  | 第一階段  |
|  | 根據環速集團技術支援部的評估,這輪勒索軟件攻擊對學校的危險程度是中度等<br>級,學校毋須特別恐慌。截至5月15日上午10時正,綜合環速集團、教育局及   |
| • 風險評估: 危險程度是中度等級  | 香港事故保安協調中心(HKCERT),均未有收到學校被攻擊的報告。   |
| • 學校毋須特別恐慌   | 此外,因為學校大部分都有安裝防火牆(Firewall),而正常的防火牆設定是沒有<br>開放今次 WannaCry 勒索軟件攻擊的連接埠,能夠阻擋外來的直接攻擊,風險遠  |
|  | 較一些電腦直接連接互聯網(沒有防火牆)為低。  |
| <ul> <li>Server/高危設備: 先Backup後Update</li> </ul>  | 在第一階段,技術支援部建議學校應先採取以下措施,減低感染風險:<br>1. Windows 伺服器備份:在為伺服器進行 Windows Update 前,應先確保系統已  |
| Failure configuring Windows updates<br>Reverting changes<br>Do not turn off your computer.   | 有離線備份。如沒有應先備份 System Drive 和 System State,然後再作 Windows<br>Updates,以防萬一系統更新失敗,亦可減少損失<br>2. 先為高危的設備更新:為高危的設備,例如:Windows 伺服器(包括 File Server<br>及 WebSAMS Server)和載有重要文件的電腦(如:書記、校長)作 Windows   |
| Select Items Social and the backup by selecting or clearing the associated check boxes. The items that you have included in the current backup are already selected.   | <ul> <li>更新(https://blogs.technet.microsoft.com/msrc/2017/05/12/customer-guidance-<br/>for-wannacrypt-attacks)</li> <li>立即停止使用自播電腦(只限 Windows 系統):根據最新內部風險評估顯示,<br/>學校最大機會受到感染的來源是自攜電腦,應立即終止該電腦連接學校網絡,<br/>方容使用的有些標準輕可定性多於更新,及其他要求了,對素軟化要求力,</li> </ul> |
| Image: System state       Image: Syste | 且主唯环州有日播电脑已安装系航更新,及没有 WannaCry 勒索軟件潜伏在<br>内<br>4. 使用 Group Policy:為防止 WannaCry 勒索軟件在校内散播,建議使用 Group<br>Policy,封鎖使用者電腦的以下連接埠:TCP139、445;UDP137、138,詳細資<br>訊將於下午公佈  |
|  |   |

| The   | (Expected Routine Task List for   | TSS or Sys | stem Suppo | ask List<br>rt Personnel | of Scho    | ol)                            |  |
|---|---|------------|------------|--------------------------|------------|--------------------------------|--|
| Version   | 2.6   |            |            |                          |            |                                |  |
| Date  | 11 <sup>st</sup> Apr. 2016  |            |            |                          |            |                                |  |
| Dute  | 11 110, 2010  |            |            |                          |            |                                |  |
| Tasks   |   | Daily      | Weekly     | Monthly                  | Ad-<br>Hoc | Related documentation          |  |
| WebSAMS S   | erver   |            | 1          |                          |            |                                |  |
| Operations  |   |            |            |                          |            |                                |  |
| Re-Start of W                                     | /ebSAMS   | 1          |            | X                        | X          | COPM Section 6.6               |  |
| WebSAMS V   | Version Upgrade   |            |            | X                        | X          | AOM Section 8.3                |  |
| Housekeeping                                      | g of WebStart Upgrade   |            |            | X                        |            | AOM Section 8.4                |  |
| Check version                                     | n upgrade log E:\temp\wsup1   | X          |            |                          |            | AOM Section 8.3.12 & 8.3       |  |
| Regular Back                                      | kup   | X          | X          | X                        | Х          | COPM Section 6.7               |  |
| Check backup                                      | p software log  | X          |            |                          |            | COPM Section 6.7.6             |  |
| Check Apache<br>D:\WebSAM                         | e log<br>S3.0\Apache\logs   | X          |            |                          |            | COPM Section 6.7.6             |  |
| Check Virus S                                     | Scanning log  | Х          |            |                          |            | COPM Section 6.7.6             |  |
| Check Window                                      | ws Event Viewer log   |            | X          |                          |            | COPM Section 6.7.6             |  |
| Install Only W<br>(Excluding ne<br>Internet Explo | Vindows High Priority Updates<br>ew releases of Service Packs and<br>orer ) |            | X          |                          | X          | Control Panel > Windows Update |  |





#### 3















### Windows Update Patch Management

#### 安全漏洞排名2016

| Rank | Destination                  | # of<br>vulnerabilities | Rank | Destination                        | # of<br>vulnerabilitie |
|------|------------------------------|-------------------------|------|------------------------------------|------------------------|
| 1    | Android (Google)             | 523                     | 11   | Mac OSX (Apple)                    | 215                    |
| 2    | Debian Linux<br>(Debian)     | 319                     | 12   | Reader (Adobe)                     | 204                    |
| 3    | Ubuntu Linux<br>(Ubuntu)     | 278                     | 13   | Chrome (Google)                    | 149                    |
| 4    | Flash Player<br>(Adobe)      | 266                     | 14   | Windows 10<br>(Microsoft)          | 172                    |
| 5    | Leap (Novell)                | 259                     | 15   | iPhone OS (Apple)                  | 161                    |
| 6    | OpenSUSE<br>(Novell)         | 228                     | 16   | Windows Server<br>2012 (Microsoft) | 156                    |
| 7    | Acrobat Reader<br>Dc (Adobe) | 227                     | 17   | Windows 8.1<br>(Microsoft)         | 154                    |
| 8    | Adobe DC (Adobe)             | 227                     | 18   | Windows RT 8.1<br>(Microsoft)      | 139                    |
| 9    | Acrobat (Adobe)              | 224                     | 19   | Edge (Microsoft)                   | 135                    |
| 10   | Linux Kernel                 | 217                     | 20   | Windows 7                          | 134                    |

| Windows  | Update / Patch Manage  | ment                        |
|--|--|-----------------------------|
| teacherpc Add alias<br>Status updated May 14, 2017 10:45:02 PM   Last conv | nection May 14, 2017 10:44:36 PM   Registration date Apr 1, 2016 |                             |
|  | Protection status Operations Infections (0)                      |                             |
|  | » V Subscription   | Valid                       |
|  | » 🗸 Virus protection   | Enabled                     |
|  | » 🗸 Automatic updates  | Up to date                  |
|  | » [] Software updates  | Critical security updates m |
| Profile<br>Server  |  |                             |

| Windows l  | Jpdat             | ce / Patc  | h Ma             | nage          | ment        | t                   |
|--|-------------------|--|------------------|---------------|-------------|---------------------|
| Install software updates   |                   |  |                  |               |             | $(\times)$          |
| teacherpc<br>Show: All updates *   |                   |  |                  |               |             |                     |
| Update 🗘   | Category 🗘        | Software   | Vendor 🛇         | CVE ID        | Bulletin ID | Installation status |
| Security updates available for Adobe Flash Player                                  | Critical security | Adobe Flash 22 Gold                                  | Adobe            | CVE-2017-3072 | APSB17-15   |                     |
| Security updates available for Adobe Flash Player                                  | Critical security | Adobe Flash Player Plugin 22<br>Gold                 | Adobe            | CVE-2017-3072 | APSB17-15   |                     |
| Java 8 Update 131  | Critical security | Java Runtime Environment 8.0<br>Gold                 | Sun Microsystems | CVE-2017-3511 | JAVA8-131   |                     |
| Security Update for Microsoft Graphics Component (4013075)                         | Critical security | Microsoft Lync 2013 x64 SP1                          | Microsoft        | CVE-2017-0073 | MS17-013    |                     |
| Security Update for Microsoft Graphics Component (4013075)                         | Critical security | Microsoft Office 32-bit<br>Components 2013 SP1       | Microsoft        | CVE-2017-0073 | MS17-013    |                     |
| Vulnerabilities in Microsoft Office Could Allow Remote Code<br>Execution (3080790) | Critical security | Microsoft Office Professional<br>Plus 2013 (x64) SP1 | Microsoft        | CVE-2015-2466 | MS15-081    |                     |
| Security Update for Microsoft Graphics Component (4013075)                         | Critical security | Microsoft Office Professional<br>Plus 2013 (x64) SP1 | Microsoft        | CVE-2017-0073 | MS17-013    |                     |
| Security Updates for Microsoft Office: April 11, 2017                              | Critical security | Microsoft Office Professional<br>Plus 2013 (x64) SP1 | Microsoft        | CVE-2017-0106 | MS17-OFF-04 |                     |
| Cancel   |                   |  |                  |               |             | Install             |



## Management Software Comparison

| Free of chargeYNNEasy to ManageNYYEasy to SetupYNNRequire Agent in ClientNNYCan manage Non-MS<br>softwareNYYCan Push InstallNYYCache Windows UpdateYYN |                                 | WSUS | SCCM | Third Party |
|--|---------------------------------|------|------|-------------|
| Easy to ManageNYYEasy to SetupYNNRequire Agent in ClientNYYCan manage Non-MS<br>softwareNYYCan Push InstallNYYCache Windows UpdateYYN                  | Free of charge                  | Y    | Ν    | Ν           |
| Easy to SetupYNNRequire Agent in ClientNNYCan manage Non-MS<br>softwareNYYCan Push InstallNYYCache Windows UpdateYYN                                   | Easy to Manage                  | Ν    | Y    | Y           |
| Require Agent in ClientNYCan manage Non-MS<br>softwareNYYCan Push InstallNYYCache Windows UpdateYYN  | Easy to Setup                   | Y    | Ν    | Ν           |
| Can manage Non-MS<br>softwareNYYCan Push InstallNYYCache Windows UpdateYYN   | Require Agent in Client         | Ν    | Ν    | Y           |
| Can Push InstallNYYCache Windows UpdateYYN   | Can manage Non-MS<br>software   | Ν    | Y    | Y           |
| Cache Windows Update Y Y N   | Can Push Install                | Ν    | Y    | Y           |
| Content  | Cache Windows Update<br>Content | Y    | Y    | Ν           |



# WSUS 安裝快照 – Step 1

#### Select server roles

| Installation Type   | Roles   | Description  |        |
|---|---|--|--------|
| Server Selection<br>Server Roles<br>Features<br>WSUS<br>Role Services<br>Content<br>Web Server Role (IIS)<br>Role Services<br>Confirmation<br>Results | Active Directory Nights Management Services     Application Server     DHCP Server     DNS Server     Fax Server     Fax Server     Ifile and Storage Services (1 of 12 installed)     Hyper-V     Network Policy and Access Services     Print and Document Services     Remote Access     Remote Desktop Services     Volume Activation Services     Web Server (IIS)     Windows Deployment Services     Windows Server Essentials Experience     Windows Server Lydate Services | Windows Server Update Services<br>allows network administrators to<br>specify the Microsoft updates that<br>should be installed, create separate<br>groups of computers for different sets<br>of updates, and get reports on the<br>compliance levels of the computers<br>and the updates that must be<br>installed. | ♀ 環速集團 |

DESTINATION SERVER WSUS01.training.local



| Select role service<br>Before You Begin<br>Installation Type<br>Server Selection<br>Server Roles<br>Features<br>WSUS<br>Role Services<br>Content | そで代知一Step 4<br>Select the role services to install for Windows Server Update Se<br>Role services<br>WID Database<br>WSUS Services<br>Database | DESTINATION SERVER<br>WSUS01.training.local<br>ervices<br>Description<br>Installs the database used by WSUS<br>into WID. |
|--|---|--|
| 為  | 了使程序簡單點・使用內建資料慮   | えて<br>、<br>、<br>、<br>、<br>、<br>、<br>、<br>、<br>、<br>、<br>、<br>、<br>、  |

|  | ▼ ++ all 192.168.200.40 = & ×                |   | i 🗙  |
|--|--|---|------|
| Cashboard     Dashboard     Local Server     All Servers     File and Storage Services      IIS     WSUS | Oard • C I I I I I I I I I I I I I I I I I I | Manage Tools View<br>s local server<br>d features<br>rivers to manage | Help |















### 快速偵測學校防火牆對外設定

- 然後在Command Prompt移到 nmap 安裝位置
- 執行 nmap --top-port 20 x.x.x.y-z
- x.x.x.y 即校内起始的Pubilc IP, z 即結尾數字

![](_page_15_Picture_5.jpeg)

| <b>快速值测學校防火牆對外設</b><br>Program Files (x86) Nmap > maptop-port 20 20316-31<br>arting Nmap ?.40 < https://nmap.org > at 2017-05-17 16:46 China Standard Time<br>ap scan report for B.static.netvigator.com<br>st is up (0.014s latency).<br>RT STATE SERVICE<br>/top closed ftp<br>/top closed ftp<br>/top closed shp<br>/top closed denain<br>/top open http<br>0/top closed map3<br>1/top closed imp3<br>1/top closed imp3<br>1/top closed imp5<br>3/top closed https<br>5/top open methios-ssn<br>3/top closed imp3                              |        |
|---|--------|
| <pre>VVIC IS //III //III //III //III //III //IIII //IIII //IIIIII</pre>   |        |
| <pre>\Program Files (x86)\Mmap&gt;nmaptop-port 20 20316-31  ararting Mmap 7.40 &lt; https://nmap.org &gt; at 2017-05-17 16:46 China Standard Time ap scan report for</pre>  |        |
| <pre>arting Nmap 7.40 ( https://nmap.org ) at 2017-05-17 16:46 China Standard Time hap scan report for</pre>  |        |
| hap scan report for second static.netvigator.com (second static).<br>St is up (0.014s latency).<br>PRT STATE SERVICE<br>/tcp closed ftp<br>/tcp closed ssh<br>/tcp closed sentp<br>/tcp closed sentp<br>/tcp closed domain<br>/tcp closed domain<br>/tcp closed domain<br>/tcp closed pop3<br>1/tcp closed rpcbind<br>5/tcp open msrpc<br>9/tcp closed https<br>3/tcp closed https<br>5/tcp open microsoft-ds   |        |
| st is up (0.014s latency).<br>RT STATE SERVICE<br>/tcp closed ftp<br>/tcp closed ssh<br>/tcp closed sentp<br>/tcp closed denatin<br>/tcp closed domain<br>/tcp closed domain<br>/tcp closed domain<br>/tcp closed pop3<br>1/tcp closed rpcbind<br>5/tcp open msrpc<br>9/tcp open netbios-ssn<br>3/tcp closed imap<br>3/tcp closed https<br>5/tcp open microsoft-ds  |        |
| BT       STATE       SERVICE         /tcp       closed       ftp         /tcp       closed       ssh         /tcp       closed       smtp         /tcp       closed       smtp         /tcp       closed       domain         /tcp       closed       pop3         1/tcp       closed       pop3         1/tcp       closed       probind         5/tcp       open       msrpc         9/tcp       closed       indias         3/tcp       closed       indiag         3/tcp       closed       https         5/tcp       open       microsoft-ds |        |
| /tcp       closed ftp         /tcp       closed ssh         /tcp       closed telnet         /tcp       closed domain         /tcp       closed domain         /tcp       closed pop3         1/tcp       closed rpcbind         5/tcp       open         netbios-ssn         3/tcp       closed imap         3/tcp       closed https         5/tcp       open         microsoft-ds  |        |
| /tcp       closed ssh         /tcp       closed telnet         /tcp       closed domain         /tcp       closed domain         /tcp       closed pop3         1/tcp       closed rpcbind         5/tcp       open         /tcp       closed rpcbind         5/tcp       closed imap         3/tcp       closed imap         3/tcp       closed https         5/tcp       open         microsoft-ds       disconstruction  |        |
| /tcp       closed telnet         /tcp       closed smtp         /tcp       closed domain         /tcp       closed domain         Ø/tcp       closed pop3         1/tcp       closed rpcbind         5/tcp       open         msrpc       9/tcp         9/tcp       closed imap         3/tcp       closed https         5/tcp       open         mstpc       9/tcp         s/tcp       closed https         5/tcp       open         microsoft-ds       9/tcp  |        |
| >/tcp       closed smtp         >/tcp       closed domain         //tcp       open         Ø/tcp       closed pop3         1/tcp       closed rpcbind         5/tcp       open         msrpc       9/tcp         9/tcp       closed imap         3/tcp       closed https         5/tcp       open         microsoft-ds       0   |        |
| /tcp       closed domain         /tcp       open         /tcp       closed pop3         1/tcp       closed rpcbind         5/tcp       open         msrpc         9/tcp       open         9/tcp       open         strp       closed rpcbind         5/tcp       open         strp       closed imap         3/tcp       closed https         5/tcp       open         microsoft-ds       open   |        |
| <pre>//tcp open http<br/>Ø/tcp closed pop3<br/>1/tcp closed rpcbind<br/>5/tcp open msrpc<br/>9/tcp open netbios-ssn<br/>3/tcp closed imap<br/>3/tcp closed https<br/>5/tcp open microsoft-ds</pre>  |        |
| 0/ccp closed pop3<br>1/tcp closed rpcbind<br>5/tcp open msrpc<br>9/tcp open netbios-ssn<br>3/tcp closed imap<br>3/tcp closed https<br>5/tcp open microsoft-ds   |        |
| 17/cp closed rpcbind<br>5/tcp open msrpc<br>9/tcp open netbios-ssn<br>3/tcp closed imap<br>3/tcp closed https<br>5/tcp open microsoft-ds  |        |
| 5/tcp open netbios-ssn<br>3/tcp closed imap<br>3/tcp closed https<br>5/tcp open microsoft-ds  |        |
| 3/tcp closed https<br>5/tcp open microsoft-ds   |        |
| 3/tcp closed https<br>5/tcp open microsoft-ds   |        |
| 5/tcp open microsoft-ds   |        |
|   |        |
| 3/ten closed imans  |        |
|   |        |
| 23/tcp closed pptp  |        |
|   | + #    |
| 89/tcp open ms-wht-server   | 宋集     |
| Spee  | dy Gro |

![](_page_16_Picture_1.jpeg)