

IT Security Awareness Talk
By NUS IT
Feb 2018 @ LT 15

Outline

1. Information Security Objectives and Policies
2. Data Protection Measures
3. Trending Cyber-attacks Techniques and Best Practices



Information Security Objectives



***Security is
lifestyle!***

***Think Safe.
Think Secure.***

What are the Information Security Objectives?

Preserve

Confidentiality

Integrity

Availability

C

Accessible by authorized personnel.

I

Accurate and complete.

A

Accessible when required.

Of Information and Information Systems

Source: IT Security Policy Chapter 1- Introduction to IT Security Policy, Section 2

Confidentiality Breach

 CHANNEL NEWSASIA 27 Jan 2017 11:41AM

2 companies fined S\$10,000 each for breaching data protection rules

JP Pepperdine Group and Propnex Realty were both imposed the financial penalty after failing to secure customers' personal information on their IT systems, thus making them available publicly.

According to the decisions listed on the PDPC website earlier this week, it received a complaint on Oct 25, 2015, against JP Pepperdine Group after it was discovered that anyone could access the personal data of members that joined its membership programme by not entering anything on the company's website's search bar and clicking search

Confidentiality Breach

PropNex fined \$10,000 for data breach

🕒 PUBLISHED JAN 27, 2017, 5:00 AM SGT



Property agency inadvertently caused details of 1,765 people to be leaked online

Irene Tham Senior Tech Correspondent 

Singapore's privacy watchdog has fined PropNex Realty \$10,000 after it inadvertently caused the personal data of 1,765 people to be leaked online. It is the second time the real estate industry has been in the news in the last three years over data privacy issues.

The Personal Data Protection Commission had fined an agent from Huttons Asia \$27,000 in 2014 for sending text messages to numbers listed on the Do Not Call registry, which is covered under the Personal Data Protection Act.

The commission started probing PropNex in December 2015 following a complaint from an unnamed woman that her name and mobile number were in an unsecured PDF document freely available online

PASSWORD PROTECTION

Immediately after notification, systems and procedures were enhanced... All such information is now protected with a password.

PROPNEK SPOKESMAN CAROLYN GOH, noting that the leak was unintentional.



Source: Straits Times @ 27 Jan 2017

143 NUS student volunteers' data breached; school directed to provide mandatory training

| APR 28, 2017, 2:55 PM

The commission found that a URL link for a Google Sheets spreadsheet, started by students from NUS College of Alice and Peter Tan, had disclosed personal data of students without authorisation.

The spreadsheet was created for the college's freshmen orientation camp in 2016, which was led by student leaders.

It contained the full names, mobile numbers, matriculation numbers, shirt sizes, dietary preferences, dates of birth, dormitory room numbers and email addresses of the student volunteers tasked to help run the camp.

It was found that an unknown party had changed the setting on the spreadsheet to "share using a link".

As a result, any user with the URL link will have access to the spreadsheet and the personal data in it, possibly exposing such information to those beyond the university, wrote PDPC deputy commissioner Yeong Zee Kin



Name one good practice that can prevent these incidents from happening

Answer:

Check the permission settings of website, functions, folders and files when storing and sharing data.

Integrity

TODAY

We set you thinking
THURSDAY 6 APRIL 2017

Read the PDF
print edition



S\$1.7m in Medisave grants paid mistakenly to babies to be recovered

ss | tech | sports | entertainment | lifestyle | blogs | photos | videos | print edition



TODAY file photo

CPF Board has “conducted a thorough review and enhanced the work processes involved”, by having additional payment **verification checks** on all newborns who are eligible for the grants.

Source: Today @ Apr 2017

Availability

StarHub: Cyber attacks that caused broadband outages came from customers' infected machines



SINGAPORE - The two waves of cyber attacks that brought down Internet surfing on StarHub's broadband network last Saturday (Oct 22) and on Monday (Oct 24) came from the bug-infected machines of the telco's own customers

Source: Straits Times @ 26 Oct 2016

Later on Wednesday, Singapore's Cyber Security Agency and the Infocomm Media Development Authority said that is the first time that Singapore has experienced such an attack on its telco infrastructure.



**Name one good
practice that
can prevent
these incidents
from happening**

Answer:

Change default password.

Verify data entered into system or data input from interfacing system.

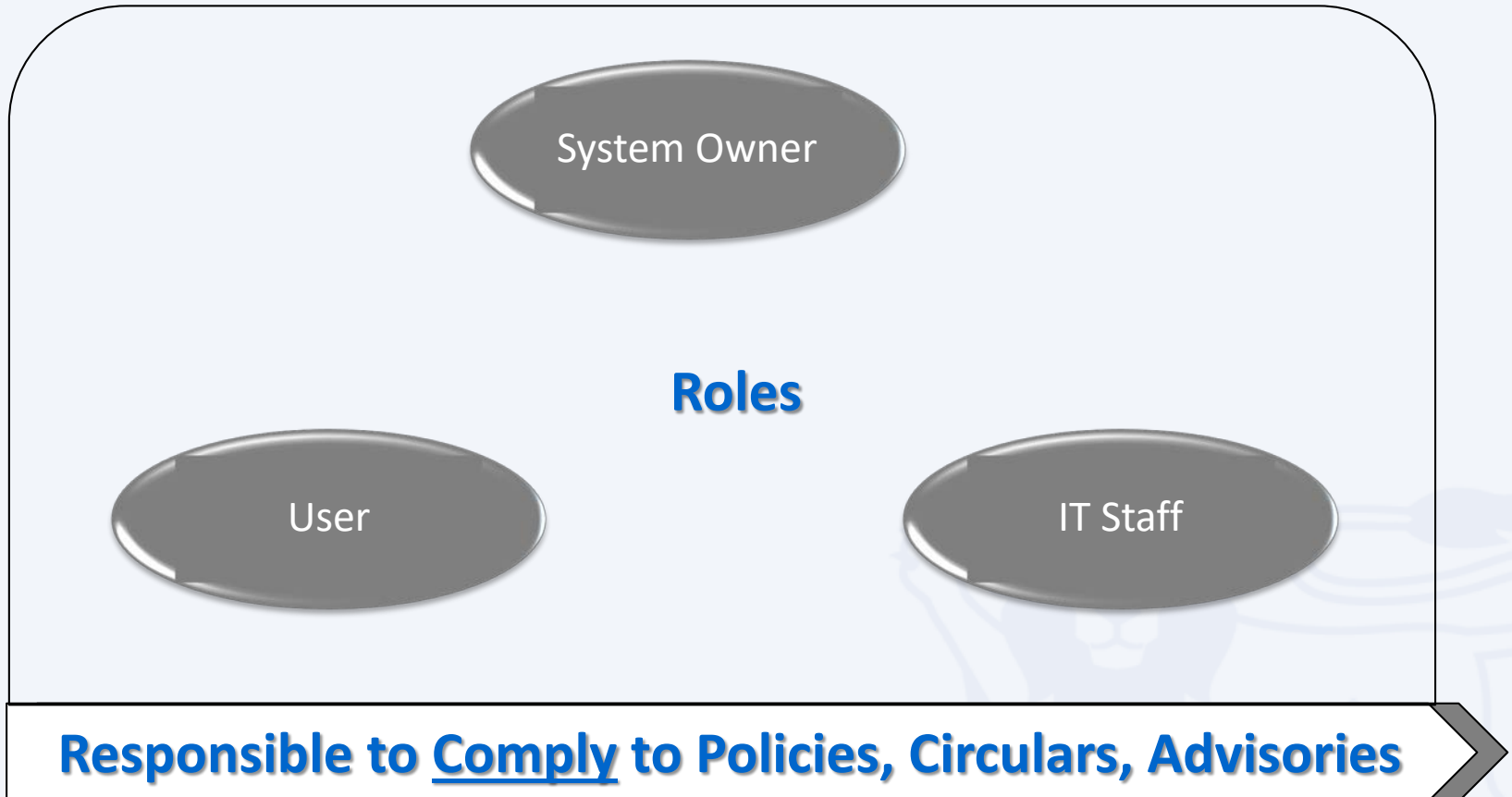
Information Security Policies



Think Good practice
Implement Good practice
Protect our Data and System



Roles and Responsibilities in Information Security



Responsible to Comply to Policies, Circulars, Advisories

Overview of Information Security Policies

IT Security

Acceptable Use (for NUS IT resources)

Software Terms of use

Software Management

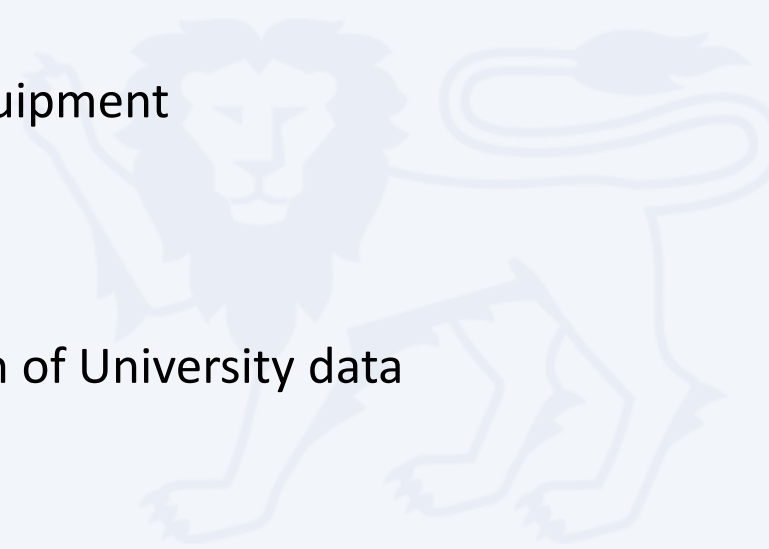
Mobile Device

Guideline for personal computer and equipment

Data Management

Guideline to classification and protection of University data

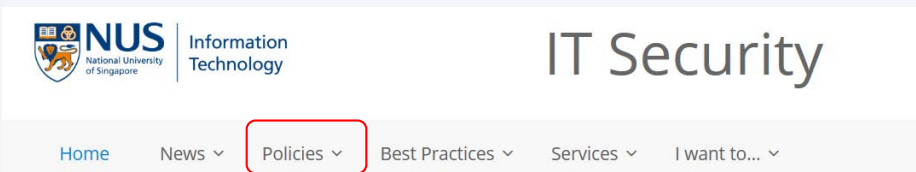
Cloud





Where can I find these Information Security policies?

Answer: ITS Portal @ <https://nusit.nus.edu.sg/its>



Applying Information Security Policies

	Policy	How does it apply to me?	
		Chapters /Clauses	Use Cases
1	IT Security	<ul style="list-style-type: none"> • Chp 4 - Access Control Security • Chp 10 – System Development and Maintenance • Chp 6 - Physical and Environmental Security 	System Owner <ul style="list-style-type: none"> • Review user accounts and access rights on Information System • Request for Security Assessment User <ul style="list-style-type: none"> • Lock screen when you walk away from your computer • Report security incident to ccecert@nus.edu.sg immediately
2	Acceptable Use for IT resources	<ul style="list-style-type: none"> • Computer Misuse and Cybersecurity Act • Spam Control Act • Copyright Act 	<ul style="list-style-type: none"> • No sharing of account or password • No spamming

Legislation Acts

<http://statutes.agc.gov.sg/aol/search/display/view.w3p;ident=a0823194-a6f3-481d-898a-7854557b85e7;page=0;query=CapAct%3A88%20Type%3Auact,areved;rec=1;resUrl=http%3A%2F%2Fstatutes.agc.gov.sg%2Faol%2Fsearch%2Fsummary%2Fresults.w3p%3Bquery%3DCapAct%253A88%2520Type%253Auact,areved#legis>

Cap	Legislative Act	Brief Description
50A	Computer Misuse and Cybersecurity Act	Unauthorized access or modification of computer program/data
88	The Electronic Transaction Act	Preservation of the integrity and reliability of electronic record
311A	Spam Control Act https://www.ida.gov.sg/Policies-and-Regulations/Acts-and-Regulations/Spam-Control-Framework	Unsolicited communication in bulk either email or mobile
97	The Evidence (Computer Output) Regulations in Chapter 97 of the Evidence Act	Admissible evidence for court case (e.g. relevant facts not opinions)
2012	The Personal Data Protection Act https://www.pdpc.gov.sg/docs/default-source/publications-edu-materials/what-you-need-to-know-about-pdpa-v1-0.pdf?sfvrsn=4	Protection of personal data
63	Copyright Act	Protection of intellectual work
221	Patent Act	Protection of invention
332	Trademark Act	Protection of branding
338	Undesirable Publications Act	Prohibited publication that may be obscene, objectionable, etc



Can I share my user account and password?

Answer: No, you are liable for all actions performed using the account

ION Orchard fined S\$15,000 over customer data breach



In the incident, which took place on Dec 26, 2015, an unknown perpetrator used valid admin account credentials to log in to a server that held personal customer data.

It found that Orchard Turn Developments did not have any policy to prohibit the sharing of admin account credentials, or to enforce the periodic expiry and renewal of these. Instead, it had only one admin account, which was shared among four authorised users.

Source: CNA @ Jul 2017

Applying Information Security Policies

	Policy	How does it apply to me?	
		Chapters /Clauses	Use Cases
3	Software Terms of use	<ul style="list-style-type: none"> Para 3 – Appropriate use of NUS Software 	<ul style="list-style-type: none"> Install licensed Software on NUS computers for use only during course of employment with NUS
4	Software Management	<ul style="list-style-type: none"> Para 3 (iii) - Policy 	<ul style="list-style-type: none"> Software used are appropriately licensed and inventoried
5	Guideline for personal computer and equipment	<ul style="list-style-type: none"> Para 1.1 Qualified Corporate Mobile Devices 	<ul style="list-style-type: none"> Use Qualified Corporate Devices <p>https://staffportal.nus.edu.sg/staffportal/it/equipmenttender</p>

Software Audit Circular dated 20thOct2016

1. Software License Records

Faculties and departments must keep an up-to-date software inventory register and documentary proof of software licenses purchased.

2. Use of Licensed Software in NUS-Owned Equipment

Faculties and departments are to ensure that only software with licenses purchased are installed in NUS-owned equipment. The actual installations must correspond with the licenses purchased. The [Software Inventory Reports](#) may be referenced to determine if additional licenses are required.

3. Acceptable Use of Shareware

Shareware is software that is freely available for download from the internet. In most cases, it is for non-commercial use only and Institutes of Higher Learning (IHLs) are excluded. Faculty and staff must check the shareware owner's End User License Agreement (EULA) if use by IHLs is free or requires the paid version.

4. Anti-Malware Software

The University licenses TrendMicro OfficeScan as the standard anti-malware software to protect University computers, allowing proper centralized management of the virus definitions and updates. Computers found without TrendMicro Officescan or with an outdated version must have the software installed and updated immediately. Faculty or staff responsible for the computers may install the software from [Software Center](#).

5. Use of Unauthorized Software

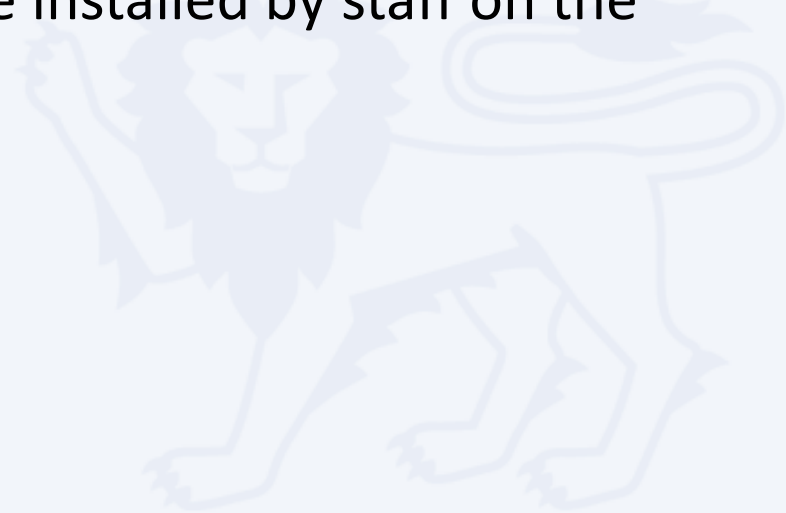
Faculty and staff must not use unauthorized software on NUS-owned equipment.

What is Unauthorized Software?

Example: Installing games on NUS laptop

The NUS Staff Handbook states that staff should not use University property for unauthorized personal use.

Aside from loss of productivity, there were also concerns over the legitimacy of the (i.e. pirated) software installed by staff on the University property.





Can I use Shareware?

Answer: Most shareware are free for home usage only. Read the terms and conditions to verify.

Applying Information Security Policies

SN	Policy	How does it apply to me?	
		Chapters /Clauses	Use Cases
7	Data Management	<ul style="list-style-type: none"> • Chp 3- Data Classification • Chp 4 – Data Administration (Data Collection, Sharing, Reporting Loss) 	<ul style="list-style-type: none"> • Classify the University Data handled (NUS Confidential, NUS Restricted, NUS Internal, Public) • Report data loss or leakage cases immediately to cceda@nus.edu.sg
8	Guideline to classification and protection of University data	<ul style="list-style-type: none"> • Section D – Measures to protect University Data 	<ul style="list-style-type: none"> • Sure data on laptop (using EFS), external USB storage (using Bitlocker) and email (e.g. password protect personal data file sent via email)
9	Cloud Policy	<ul style="list-style-type: none"> • Para 5.5 – Self Subscribed cloud service (for public or NUS Internal) • Para 6 – Enterprise Subscribed cloud service (NUS Confidential, NUS Restricted) 	<ul style="list-style-type: none"> • Subscribe to appropriate cloud services depending on the data classification and risk assessment (contact NUS IT Cloud Policy@nus.edu.sg for cloud assessment)

5. Self-Subscribed Cloud Service

- 5.1. This would include Cloud Services like DropBox, Facebook, Google Doc, Google Drive, Prezi and Piazza, etc. For corporate data, excluding teaching materials and research data, there shall be no Self-Subscribed Cloud Service involving NUS Confidential, NUS Restricted or personal data as the terms of Cloud Services agreement from Cloud Service Providers (CSPs) are often non-negotiable. User shall approach his/her department and consider Enterprise-Subscribed Cloud Service by conducting proper risk assessment and legal reviews. For corporate data that are classified as NUS Internal and meant for internal audience only, staff may consider Self-Subscribed Cloud Service but user access to Cloud shall be restricted and authenticated.



How do I know if I can use a cloud solution for conducting NUS business?

Answer:.. Contact [NUS IT Cloud Policy@nus.edu.sg](mailto:NUS_IT_Cloud_Policy@nus.edu.sg) for cloud assessment.



Who must comply to IT Security Policy?

Answer:

IT Security Policy Chap 1 Clause 3.4.1

- 3.4.1 Every staff, student and external party that has dealings with NUS information system resources is responsible for protecting and preserving the information in accordance with NUS IT Security Policy



Can I share IT Security Policy with my partners?

Answer:

IT Security Policy Chap 1 Clause 3.6.3

3.6.3 Where access is required by Supplier to University Data and IT Resources, Supplier is required to sign NDA and comply with AUP, IT Security Policy, Data Management Policy and Guideline on Use, Classification and Protection of University Data where applicable.

Security Advisory



NUS, NTU networks hit by 'sophisticated' cyber attacks

On Apr 11, NUS detected an unauthorised intrusion into its IT systems through a single server, while NTU detected a malware attack on Apr 19 possibly due to phishing or browsing of infected sites.

"However, as the universities' systems are separate from Government IT systems, the extent of the APTs' activities appear to be limited," said CSA and MOE. "The daily operations of both universities, including critical IT systems such as student admissions and examination databases, were not affected."

CSA, MOE and the universities said they would not be able to provide further details about the incident as it "could impact the effectiveness of additional defensive and preventive measures being put in place".

What is Advance Persistent Threat?

<http://www.trendmicro.com.sg/sg/enterprise/challenges/advance-targeted-attacks/>

Advanced persistent threats (APTs) are **stealthier** and more sophisticated than ever, using insidious **social engineering techniques to quietly penetrate** your organization to deploy customized malware that can **live undetected for months**. Then when you are least expecting it, cybercriminals can **remotely** and covertly steal your valuable information—from credit card data to the more lucrative intellectual property or government secrets—potentially destroying your competitive advantage, or in the case of government even putting national security at risk.

Advisory: NUS hit by Cyber Attacks

Dear Colleagues

We write to inform you that during a series of cyber security assessments of our IT system by external consultants, an unusual activity was detected and flagged to Computer Centre on 11th April.

Investigations promptly launched showed that a cyber attack had been made to penetrate NUS' IT system. This attack did not impact the daily operations of our IT systems or support, or affect student systems.

Immediate action was taken to isolate and remediate affected desktop computers and servers. The Cyber Security Agency is working closely with us in the ongoing investigations. In parallel, we are also working with our cyber security consultants to further enhance the surveillance and defense of our systems.

The University takes cyber security matters and the integrity of its IT system very seriously. However, this incident highlights the rising sophistication of cyber security attacks, and the need for heightened vigilance.

Computer Centre will be putting in place additional measures to further safeguard our IT systems. These include stepping up network and system monitoring, as well as enhancing security management.

Advisory: NUS hit by Cyber Attacks

CHANGING STAFF NUSNET PASSWORD(S)

For staff, please change your NUSNET password by **Friday, 19 May 2017**. Kindly note that the new required password length will be extended to 12 characters.

As part of our additional cyber security measures, staff NUSNET passwords which have not been changed by **Friday 19 May 2017**, will be expired. After this date, access to online university IT resources will be possible only if you have changed your password(s). You may change your password(s) at **exchange.nus.edu.sg** (please copy and paste the link to your browser).

If you need any assistance with changing your password(s), please call our 24-hour hotline at **+65 6601 6800**, which will run from 15 - 31 May 2017. You may also contact IT Care at itcare@nus.edu.sg.



What should my password length be?

Answer: Minimum of twelve (12) characters in length and be comprised of letters, numbers, and special characters

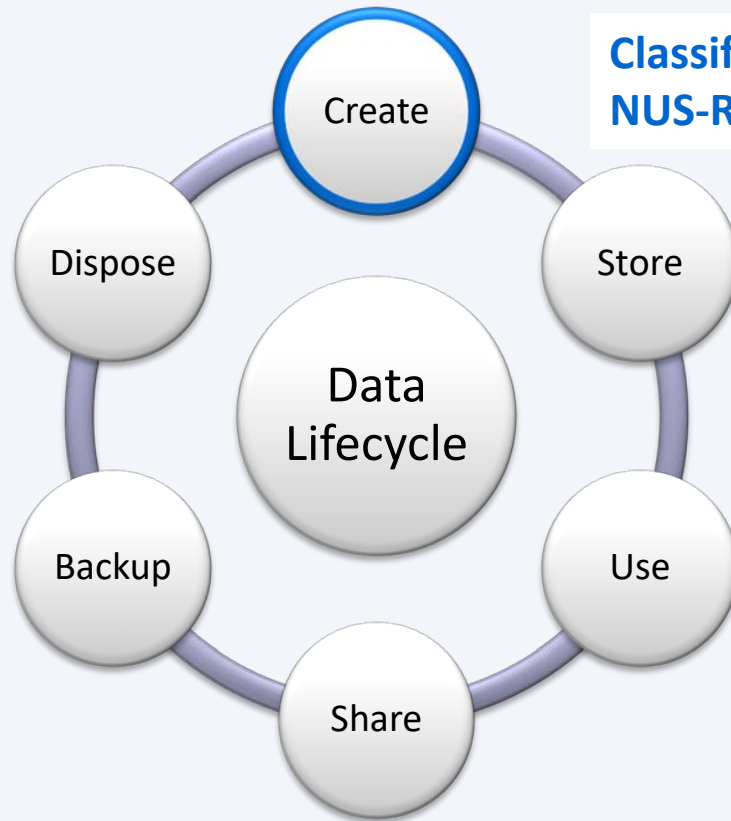
Data Protection Measures



***Security is
lifestyle!***

***Think Safe.
Think Secure.***

Data Lifecycle & Data Protection Best Practices



**Classify data as NUS-Internal,
NUS-Restricted or NUS-Confidential.**



NUS Confidential Data

NUS Confidential

Documents, information, or materials which are sensitive or critical, including proprietary information, for use within NUS by authorised personnel on a need-to-know basis. Release of NUS Confidential data may result in financial loss, potential litigation and severe damage to the reputation and interests of NUS, or the individual or entity to which the documents, information or materials relate.

Examples:-

- Staff **salary**
- Staff **appraisal**
- Examination **marks/grades** (including CAP and SAP) and examination questions
- **Admission** data (results, admission points, criminal records)
- **Medical** records (including medical and case history, diagnosis, case note, etc)
- **Donor** records
- **Credit card/Bank account information** (including bank account number, name of payee, amount, etc. excluding staff number)
- **NRIC/FIN** (including unique identification number such as Singapore NRIC, FIN, employment pass no., work permit no., student pass no., etc)
- Information relating to significant **University initiatives or collaborations** which are **being negotiated**

NUS Restricted Data

NUS Restricted

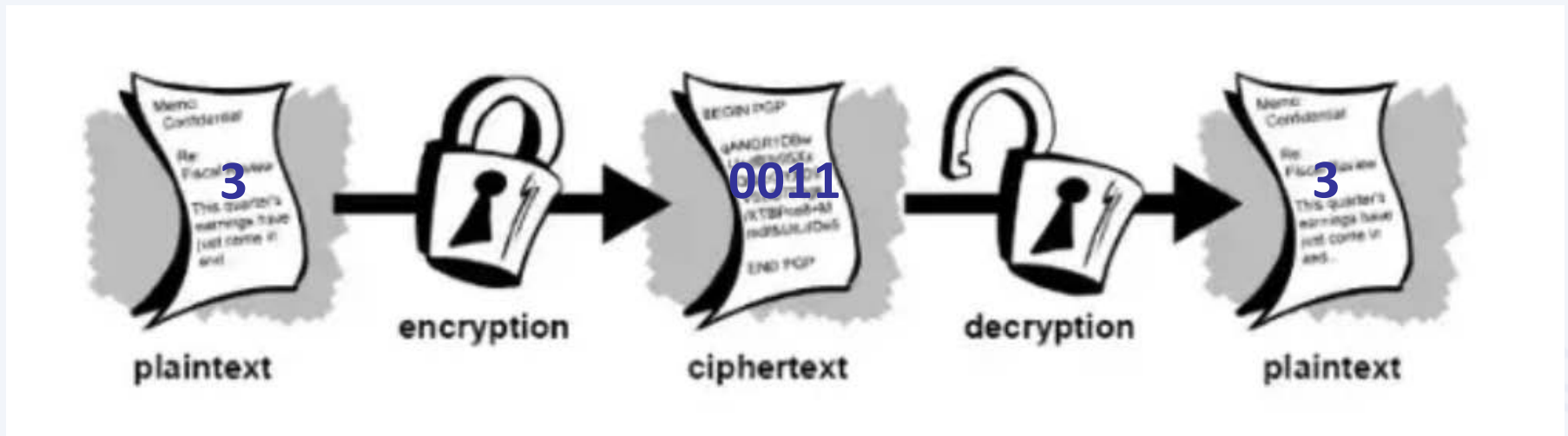
Documents, information, or materials other than those classified as NUS Confidential which are for use within NUS by authorised personnel on a need-to-know basis, including those which NUS has a contractual obligation to protect and all personal data as defined and classified in the DMP or any other applicable policy, procedure or guideline. Release of NUS Restricted data may involve damage to the reputation and interests of NUS, or the individual or entity to which the documents, information or materials relate.

Examples:-

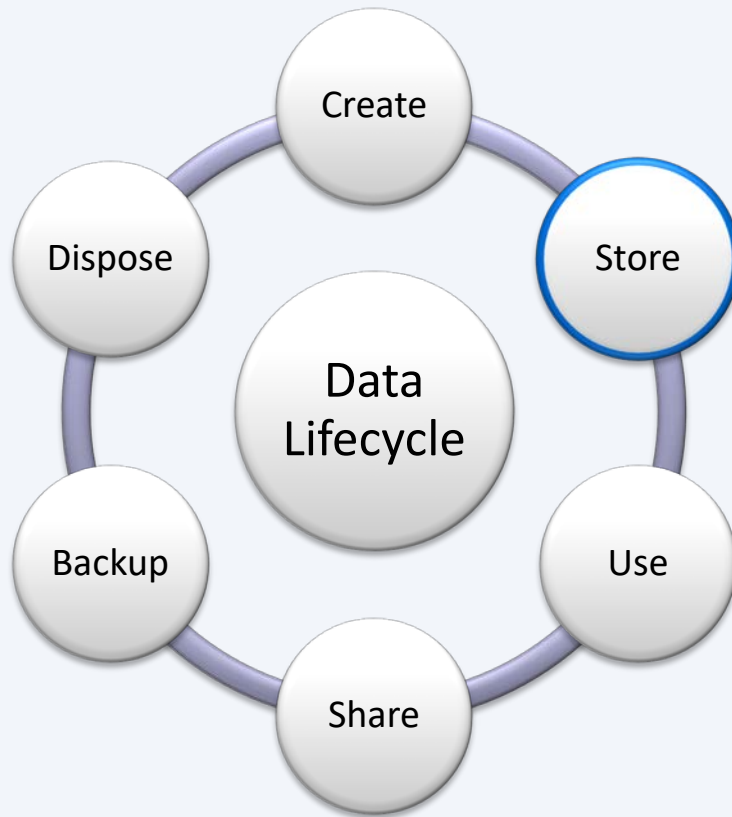
- Student, current and ex-staff and alumni records (e.g. alumni **employment details**, including aggregated, banded and/or de-identified salary information of alumni and graduates), **research grant information and data**, certain **management information and reports**, and **information covered by confidentiality obligations**.
- Personal Data
 - a. **Identification numbers** (staff number, matriculation number)
 - b. **Personal contact information** (phone numbers, emails and addresses)
 - c. **Financial information** (credit card/bank account information)*
 - d. **Employment details** (including employer, designation, salary information of alumni and graduates, previous employment details of NUS staff)
 - e. **Information on spouse, children and next-of kin**

Data Encryption & Decryption

Source: <https://www.quora.com/What-are-encryption-and-decryption>



Data Lifecycle & Data Protection Best Practices

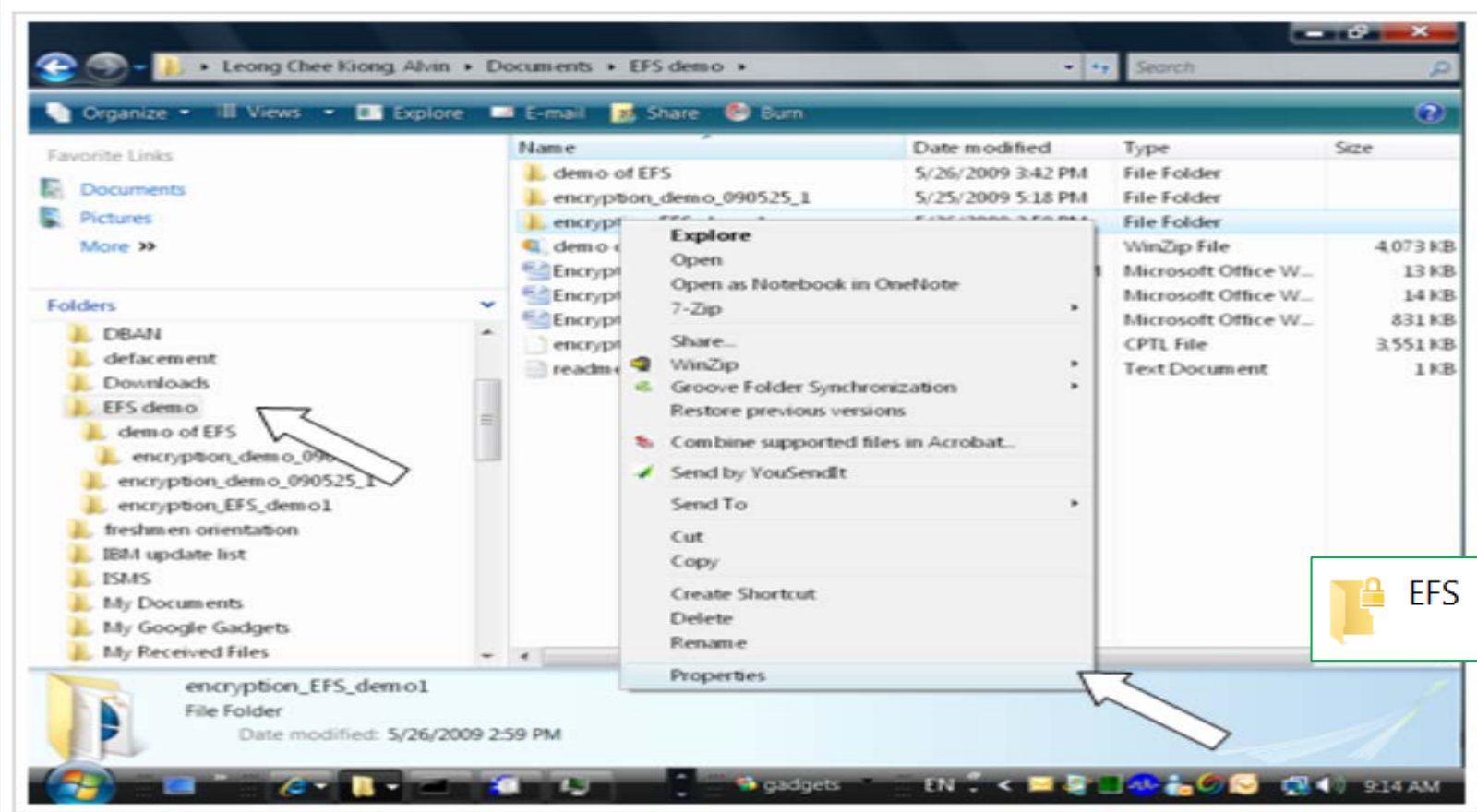


**Encrypt NUS-Confidential data
store on Laptop
using Encrypting File System (EFS)**



Encrypt Windows Folders (using EFS)

Right click on folder to encrypt. Select the option, “Properties”.

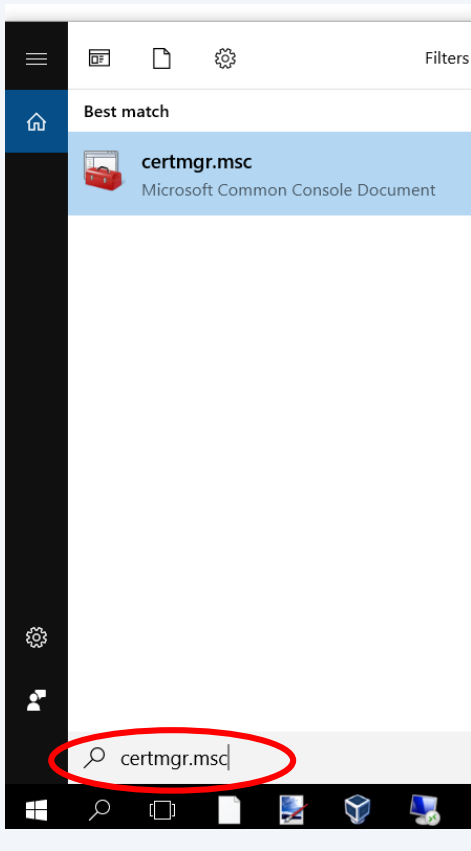


Picture: ZDNET

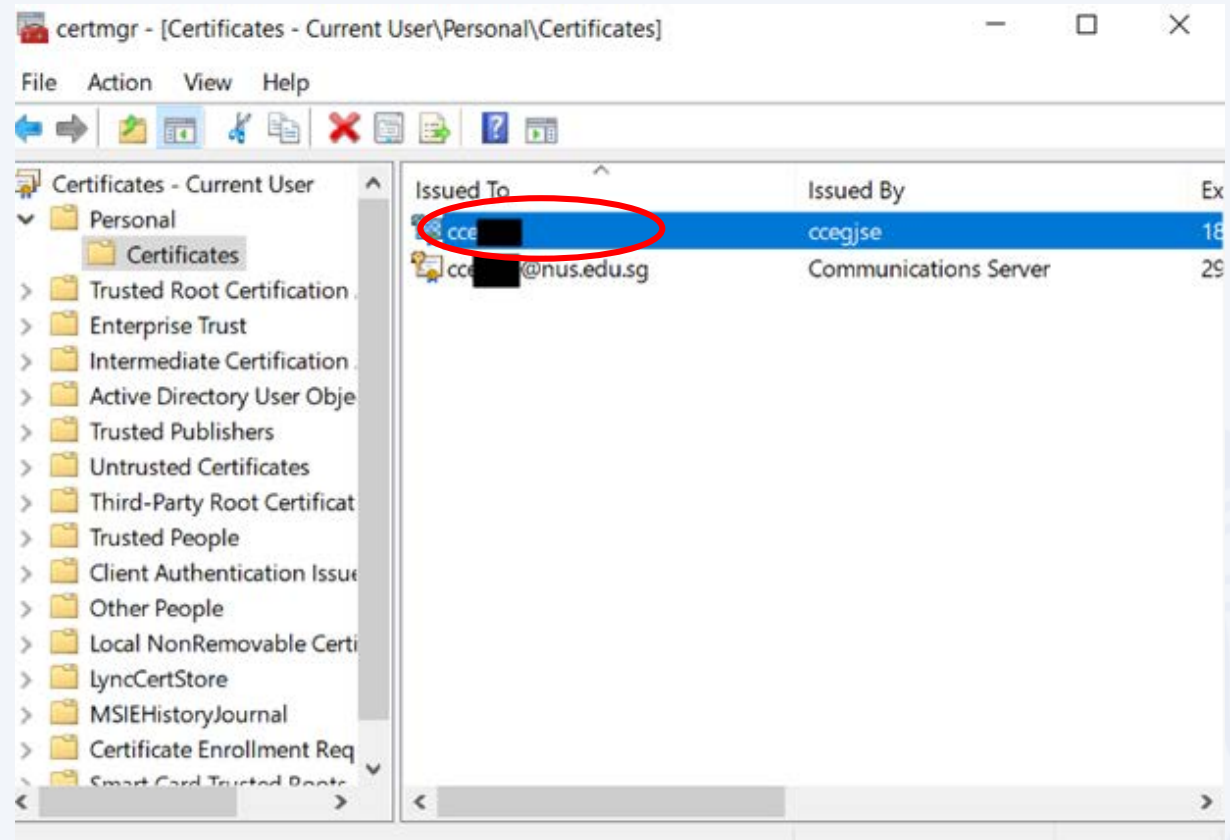
Note: EFS can encrypt the folders and files

Back up EFS Key

- Type certmgr.msc in the Search box and hit the ENTER key.
- Select Personal Folder and Click Certificates. Select userID.



The left screenshot shows the Windows search interface. The search box at the bottom left contains the text "certmgr.msc" and is circled in red. The search results pane shows "certmgr.msc" as the best match, identified as a "Microsoft Common Console Document".



The right screenshot shows the "certmgr" console window titled "[Certificates - Current User\Personal\Certificates]". The left pane shows the "Certificates - Current User" tree with "Personal" expanded and "Certificates" selected. The right pane displays a table of certificates:

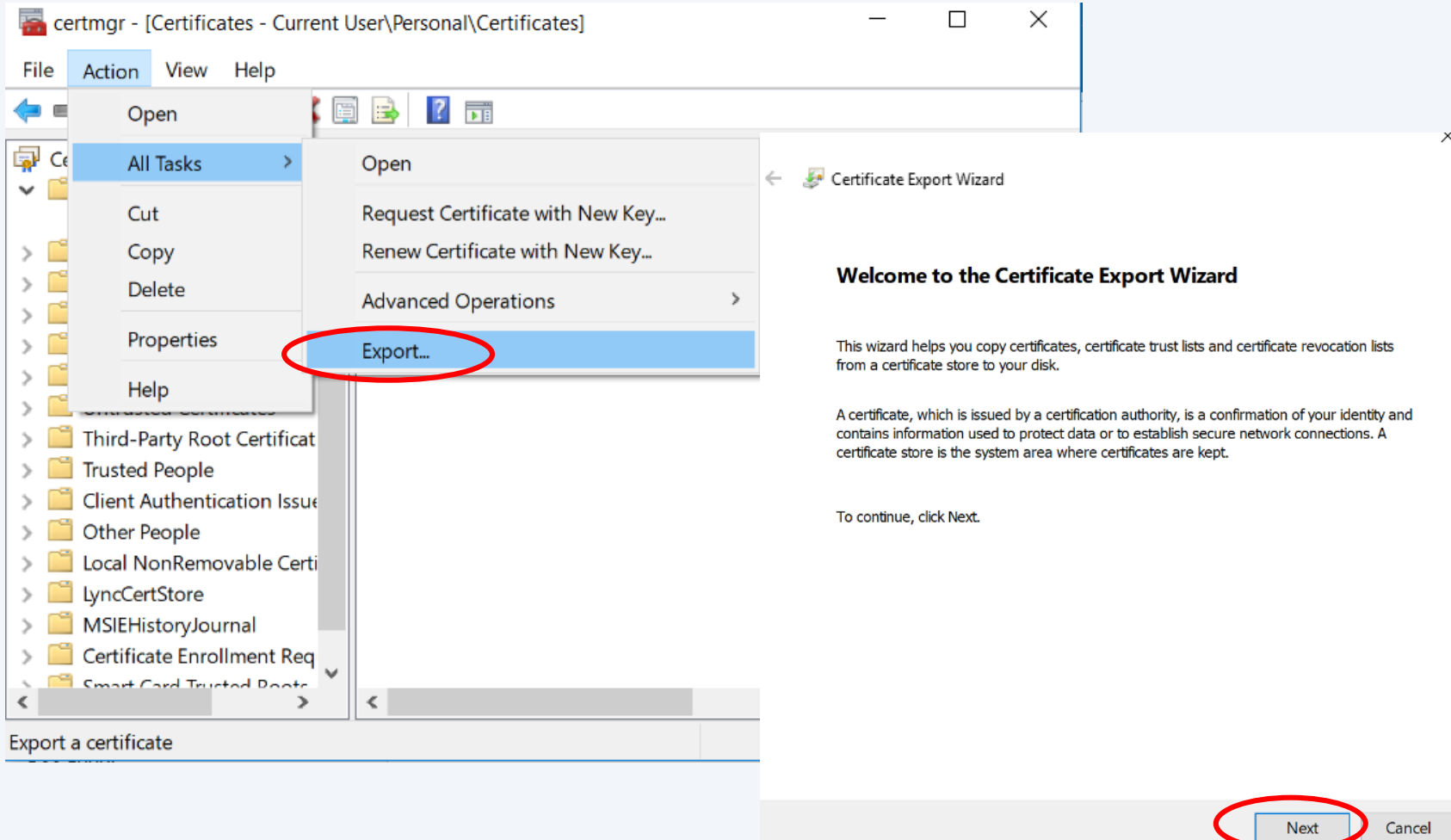
Issued To	Issued By	Expiration Date
cce[redacted]	ccegjse	18/01/2018
cce[redacted]@nus.edu.sg	Communications Server	29/01/2018

The first row in the table is highlighted in blue and circled in red.

Reference: <https://nusit.nus.edu.sg/its/resources/landing/>

Back up EFS Key

- Click Action -> All Tasks -> Export.
- Click Next on Certification Export Wizard



The screenshot shows the Windows Certificate Manager (certmgr) window with the 'Action' menu open. The 'All Tasks' sub-menu is expanded, and the 'Export...' option is highlighted with a red circle. The Certificate Export Wizard is also visible, showing the 'Welcome to the Certificate Export Wizard' screen. The 'Next' button at the bottom of the wizard is also highlighted with a red circle.

certmgr - [Certificates - Current User\Personal\Certificates]

File Action View Help

Open

All Tasks >

Cut

Copy

Delete

Properties

Help

Open

Request Certificate with New Key...

Renew Certificate with New Key...

Advanced Operations >

Export...

Third-Party Root Certificat

Trusted People

Client Authentication Issue

Other People

Local NonRemovable Certi

LyncCertStore

MSIEHistoryJournal

Certificate Enrollment Req

Smart Card Trusted Root

Export a certificate

Certificate Export Wizard

Welcome to the Certificate Export Wizard

This wizard helps you copy certificates, certificate trust lists and certificate revocation lists from a certificate store to your disk.

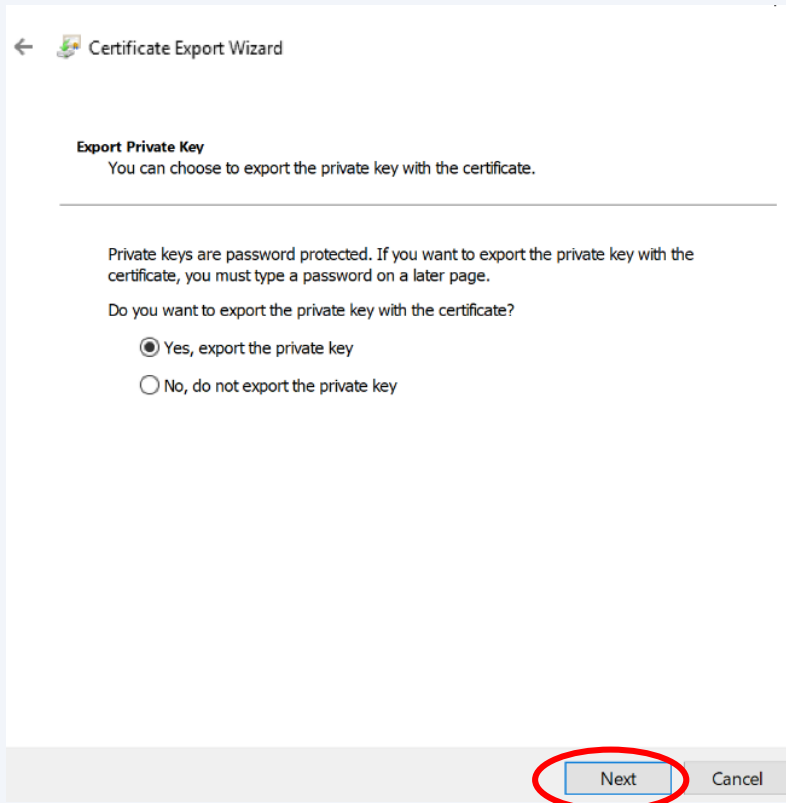
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.

To continue, click Next.

Next Cancel

Back up EFS Key

- Select “Yes, export the private key”
- Click Next on Certification Export Wizard



← Certificate Export Wizard

Export Private Key
You can choose to export the private key with the certificate.

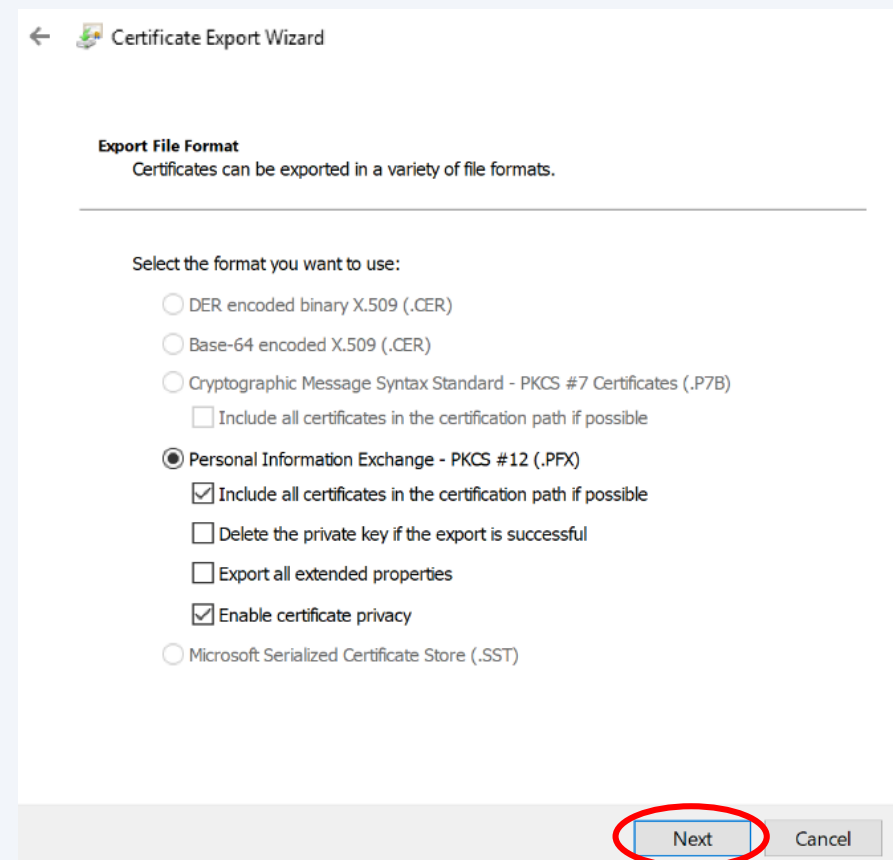
Private keys are password protected. If you want to export the private key with the certificate, you must type a password on a later page.

Do you want to export the private key with the certificate?

Yes, export the private key

No, do not export the private key

Next Cancel



← Certificate Export Wizard

Export File Format
Certificates can be exported in a variety of file formats.

Select the format you want to use:

DER encoded binary X.509 (.CER)

Base-64 encoded X.509 (.CER)

Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B)

Include all certificates in the certification path if possible

Personal Information Exchange - PKCS #12 (.PFX)

Include all certificates in the certification path if possible

Delete the private key if the export is successful

Export all extended properties

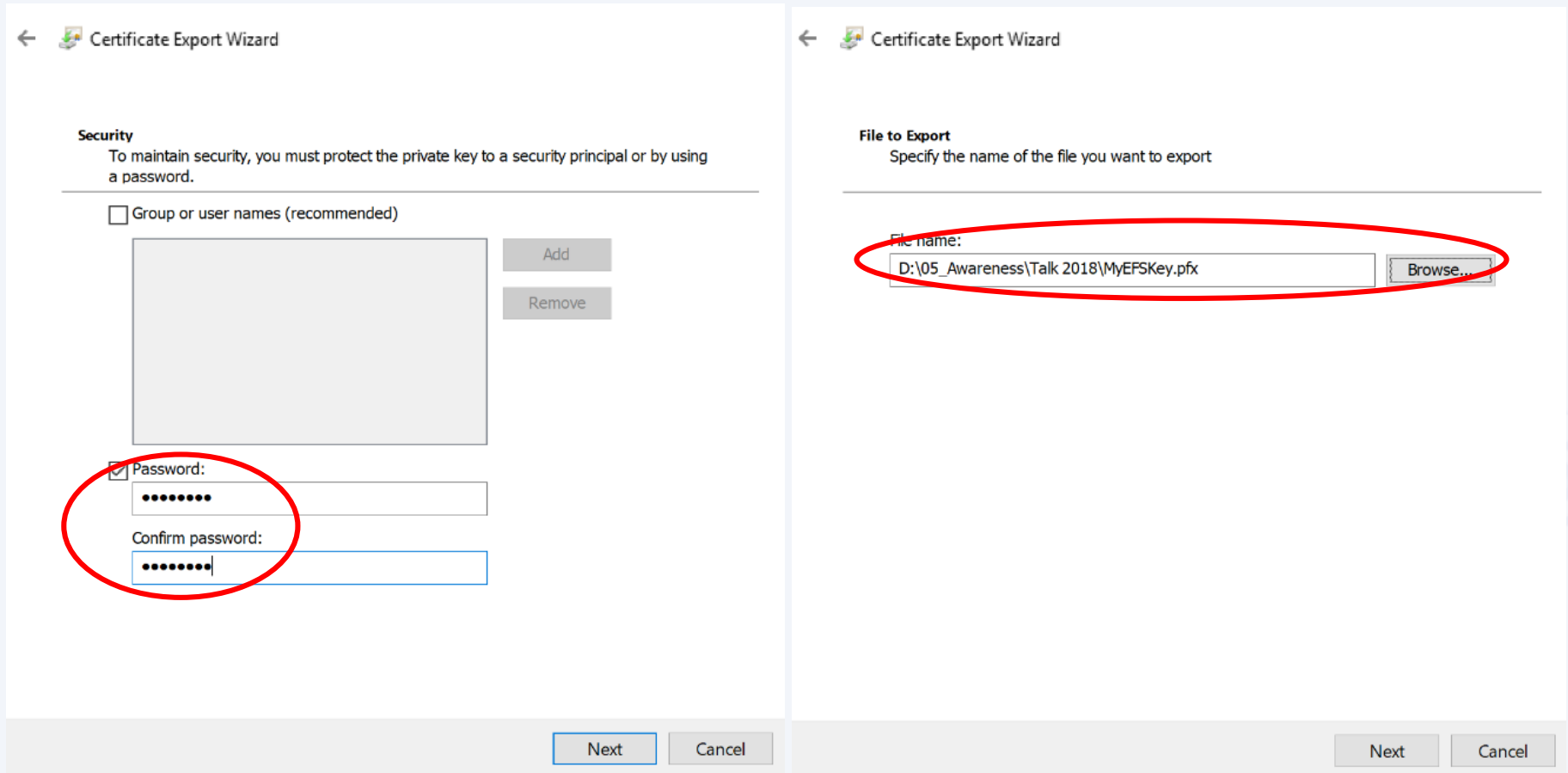
Enable certificate privacy

Microsoft Serialized Certificate Store (.SST)

Next Cancel

Back up EFS Key

- Select Password option and Enter Password. Click Next on Certification Export Wizard.
- Click on Browse button, select the folder and enter filename for the EFS Key.



← Certificate Export Wizard

Security
To maintain security, you must protect the private key to a security principal or by using a password.

Group or user names (recommended)

Password:

Confirm password:

Next Cancel

← Certificate Export Wizard

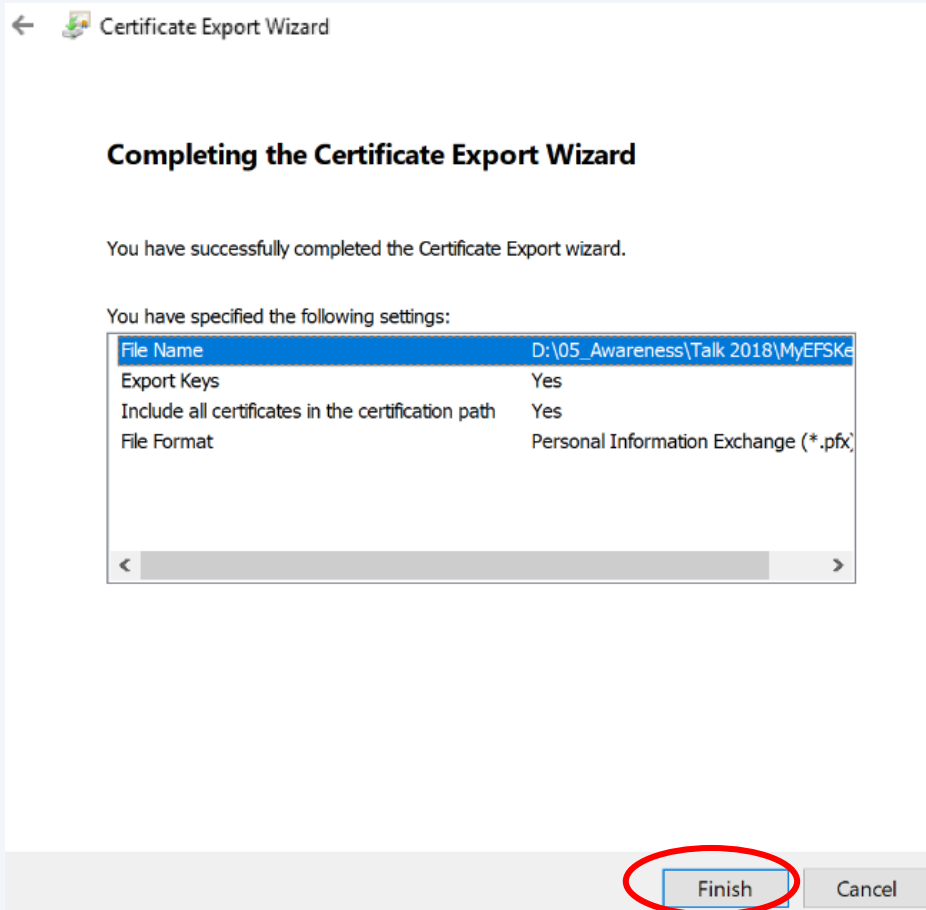
File to Export
Specify the name of the file you want to export

File name:
D:\05_Awareness\Talk 2018\MyEFSKey.pfx Browse...

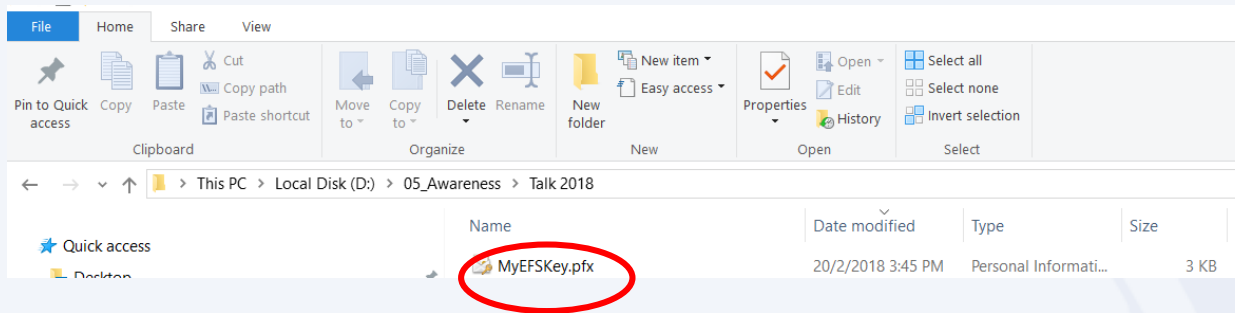
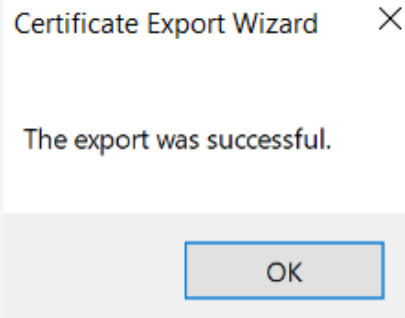
Next Cancel

Back up EFS Key

- Click Finish on Certification Export Wizard.



Back up EFS Key



- Always copy EFS key to another device such as USB.



What happens if I lose my EFS key?

Answer: Data cannot be read or decrypted.



Sony's Data Leakage

First leaked data summary, some analysis *courtesy of IdentityFinder*:

- ✓ 26.4 GB in size, containing 33,880 files and 4,864 folders.
- ✓ Includes 47,426 unique Social Security Numbers (SSN)
- ✓ 15,232 SSN belonged to current or former Sony employees
- ✓ 3,253 SSN appeared more than 100 times
- ✓ 18 files contained between 10,860 and 22,533 SSN each.

Example of employee data found:

- ✓ One file (HR\Benefits\Mayo Health\Mayo XEROX assessment feed) contains 402 full Social Security numbers, internal emails, **plaintext passwords**, and employee names
- ✓ An additional 3000 or more Social Security numbers, names, contact details, contact phone numbers, dates of birth, email addresses, employment benefits, workers compensation details, retirement and termination plans, employees previous work history, *executive salaries*, medical plans, dental plans, genders, employee IDs, sales reports, copies of passport information and receipts for travel, as well as money order details to purchase movie tickets to resell back to the Sony staff. The leaked information also included documents, payment, and account information to order custom jewelry from Tiffany & CO via email.

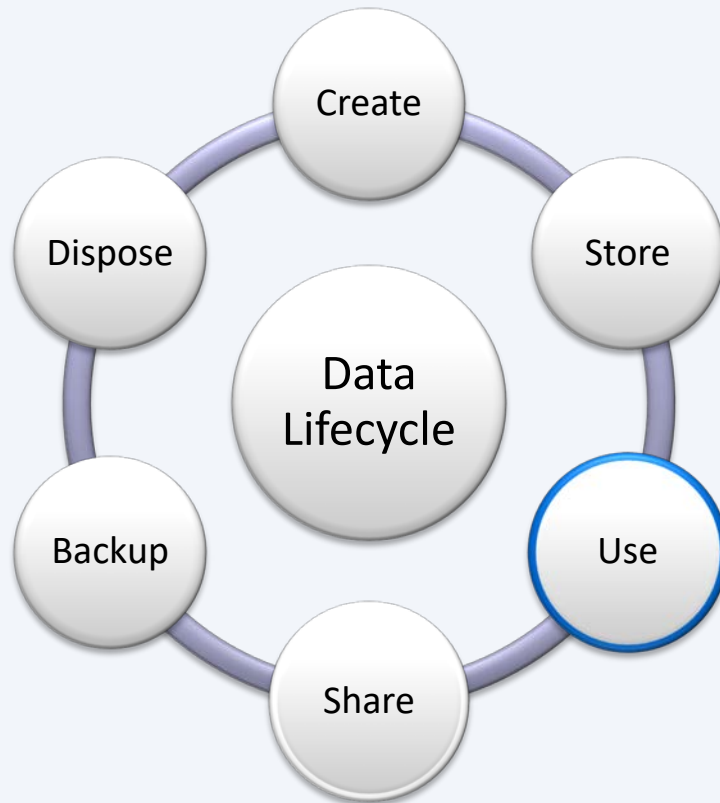
Source :

<https://www.riskbasedsecurity.com/2014/12/a-breakdown-and-analysis-of-the-december-2014-sony-hack/>
<https://www.entrepreneur.com/article/240517>

Get This: Sony Hack Reveals Company Stored Passwords in Folder Labeled 'Password'



Data Lifecycle & Data Protection Best Practices



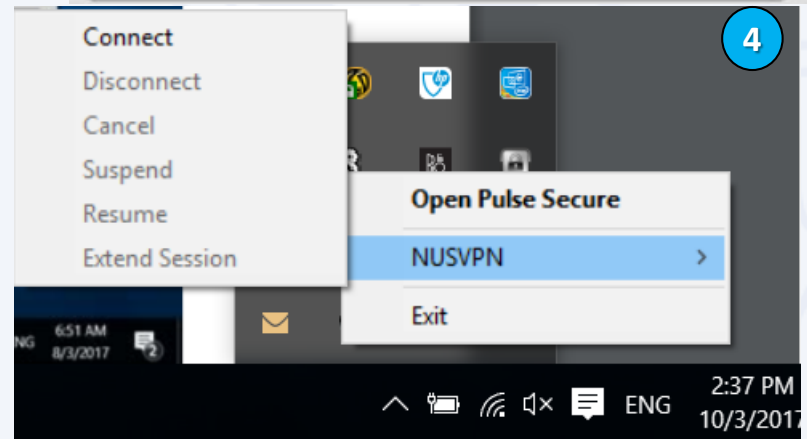
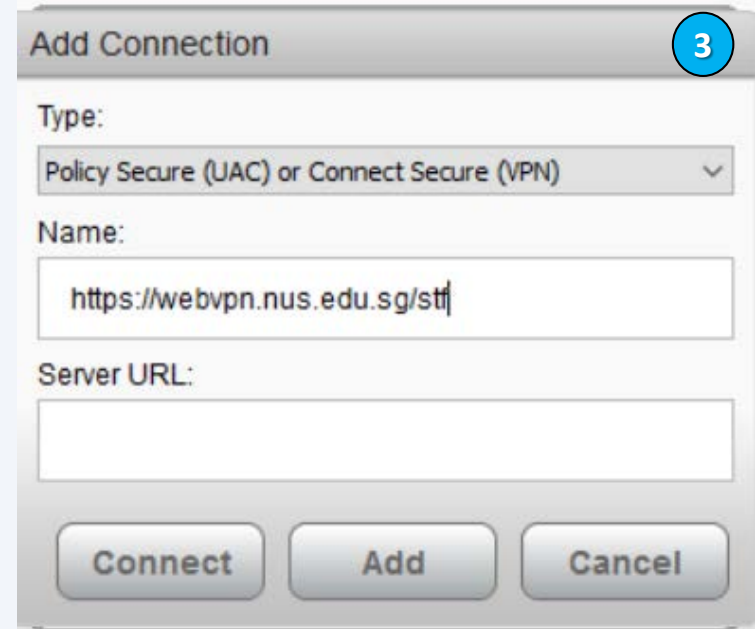
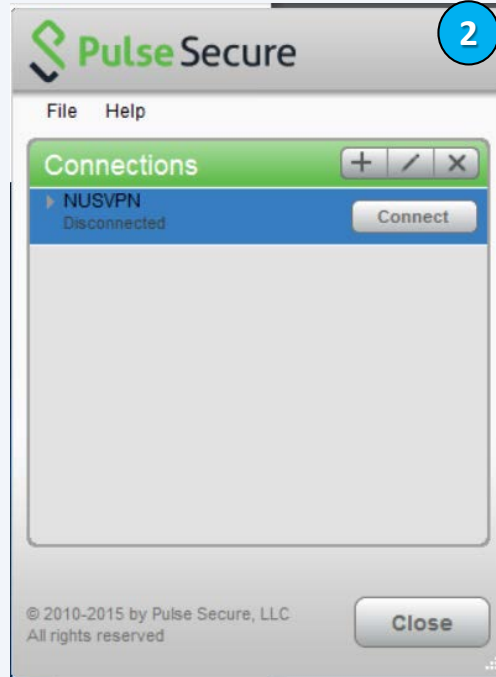
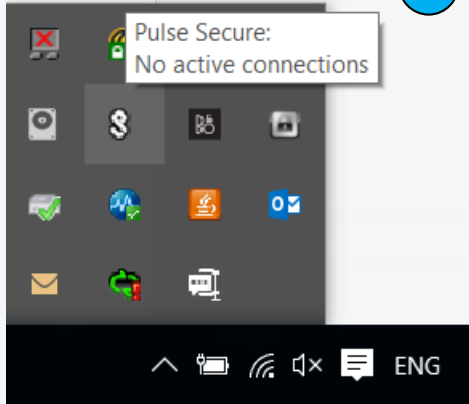
Access data securely:

- Use VPN to access NUS system and data
- Use https website
- ...

Use VPN to access NUS System & Data off Campus



VPN - <https://comcen.nus.edu.sg/gat4/wp-content/uploads/downloads/nvpn/nVPN-config-guide-for-staff.pdf>



Use https website



Source: <https://blog.easynews.com/http-vs-https-whats-the-difference/>

What are the Data Protection Best Practices ?



1

Use VPN to access NUS System and data off campus.

2

Use https website for sensitive transactions (e.g. requires login)

3

Never remember password in browser.

4

Log off from browser application after using it.

5

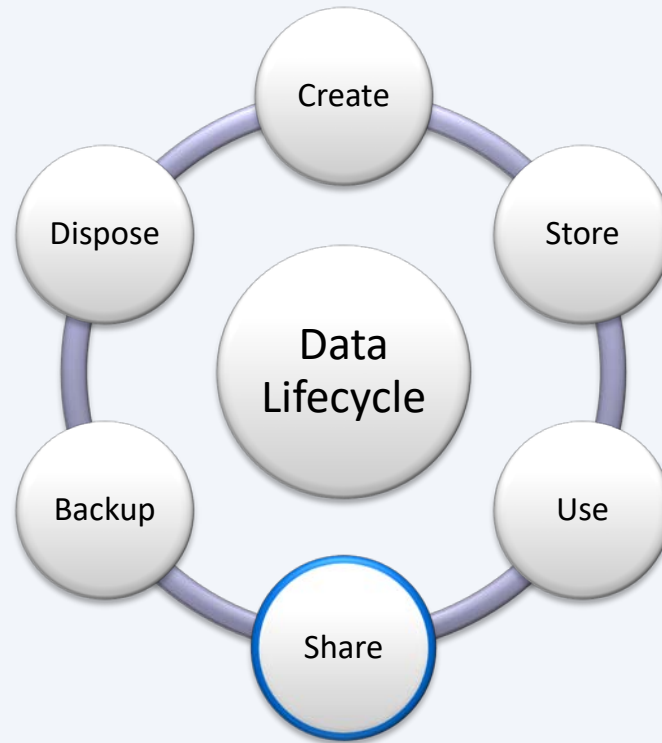
Keep work and personal email accounts separate.



Should I use my NUS email address for registering with commercial site?

Answer: No, you might received unsolicited emails from mailing group or unknown sender when you use official email account for subscribing to commercial website (e.g. shopping).

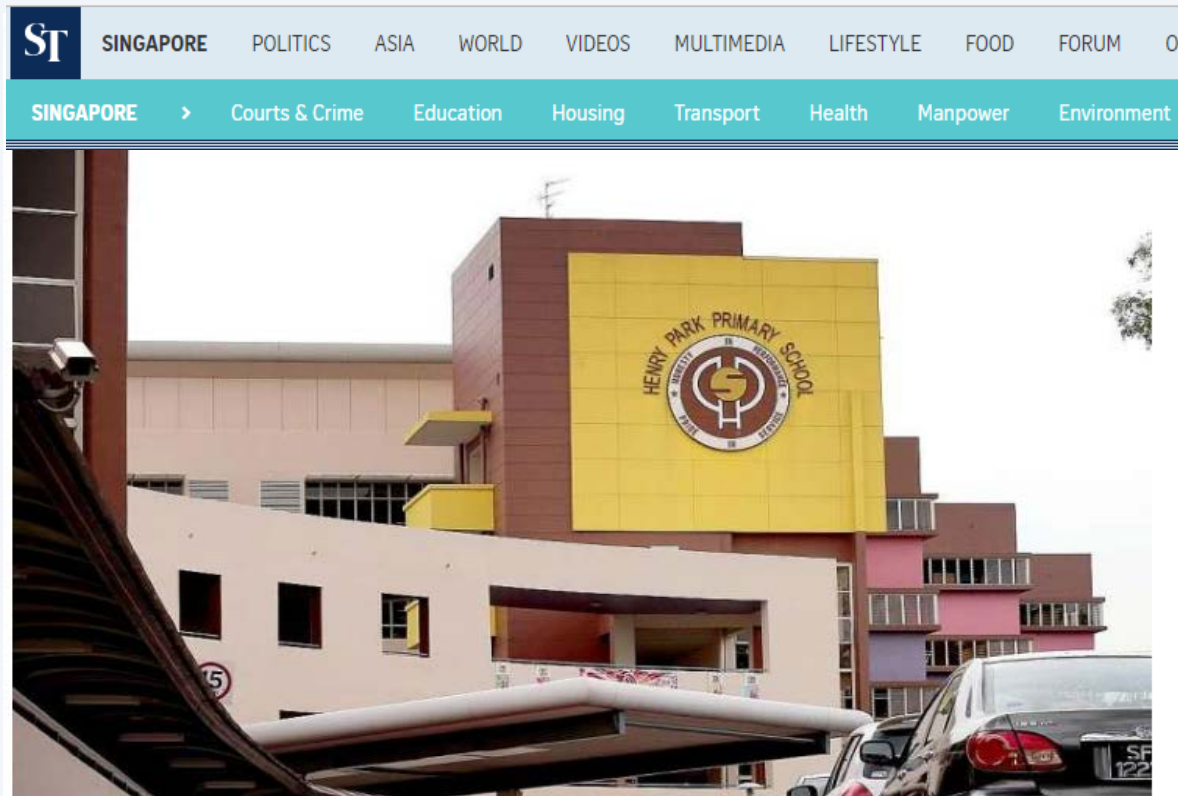
Data Lifecycle & Data Protection Best Practices



Password protect NUS-Confidential file sent over email.

...

Sending Out Personal Data by Mistake



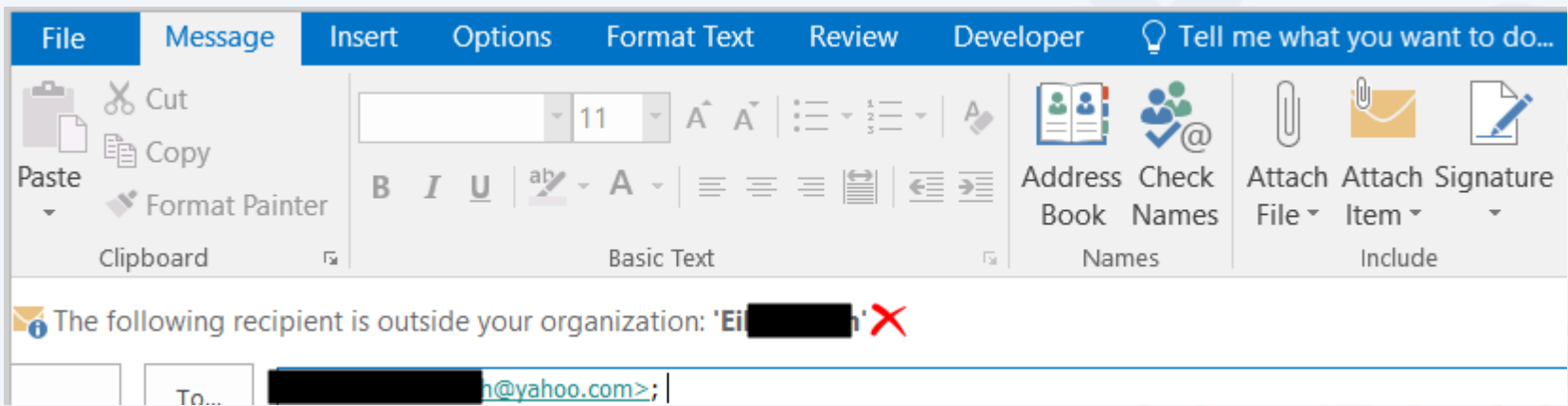
The personal data of more than 1,900 pupils from Henry Park Primary School was leaked when an Excel spreadsheet containing the children's particulars was mistakenly sent out to about 1,200 parents as part of an update about a school event. The file contained the names and birth certificate numbers of all 1,900 pupils in the school, and the names, telephone numbers and e-mail addresses of their parents.

Source (Mar 1, 2017): <http://www.straitstimes.com/singapore/take-steps-to-secure-online-accounts-experts-urge>

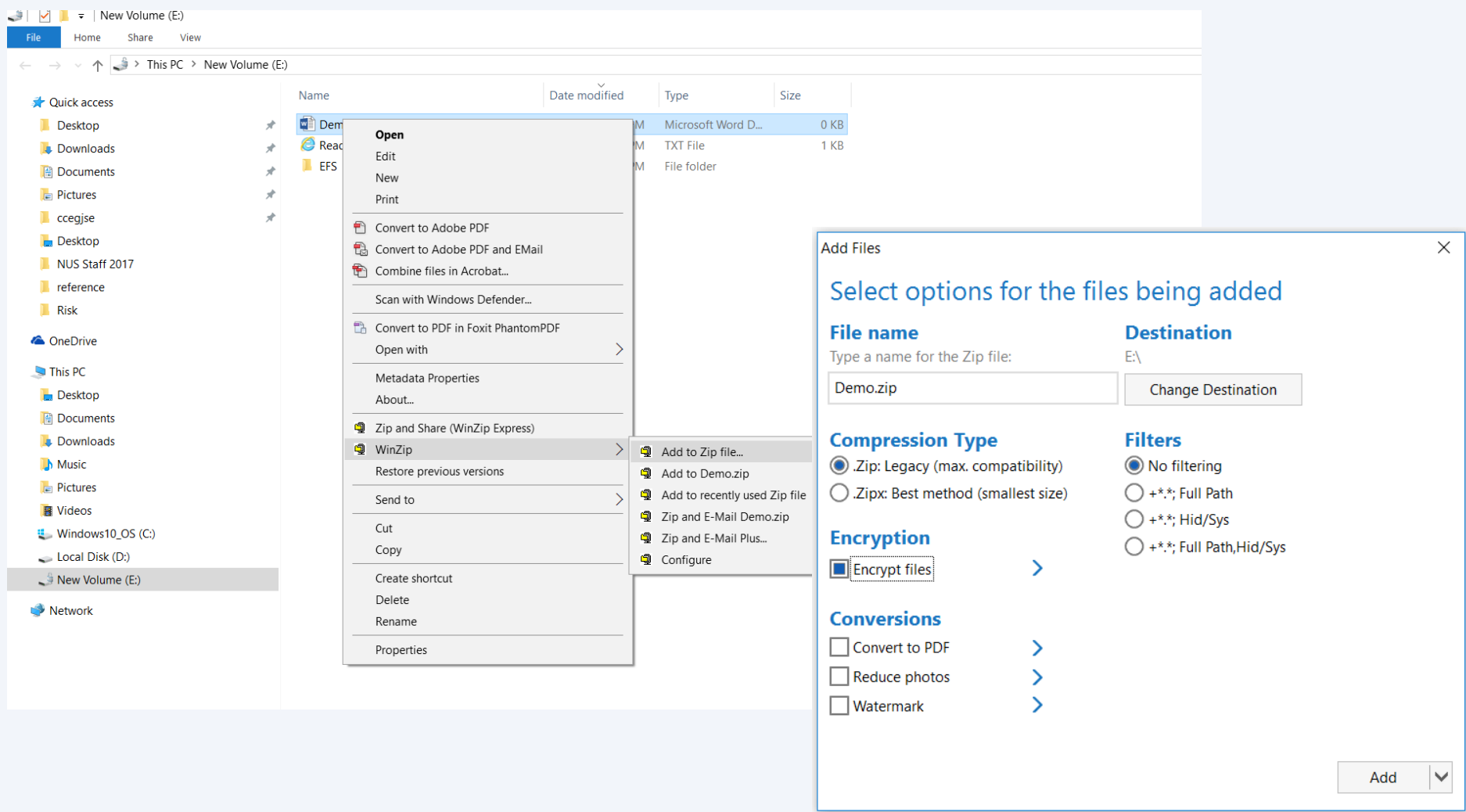
What are the protection measures?



- 1 Check that the recipient email address is correct
- 2 Encrypt the file with password using Winzip
- 3 Set delay email delivery



Encrypt Files with Password using Winzip



The screenshot shows a Windows File Explorer window for 'New Volume (E:)'. A context menu is open over a file named 'Demo.docx', with the 'WinZip' option selected. This opens a sub-menu with 'Add to Zip file...' highlighted. The 'Add Files' dialog box is displayed in the foreground, showing options for file name, destination, compression type, encryption, and filters.

Name	Date modified	Type	Size
Demo.docx		M	Microsoft Word D... 0 KB
React		M	TXT File 1 KB
EFS		M	File folder

Add Files

Select options for the files being added

File name
 Type a name for the Zip file:
 Demo.zip

Destination
 E:\

Compression Type

- .Zip: Legacy (max. compatibility)
- .Zipx: Best method (smallest size)

Encryption

- Encrypt files

Filters

- No filtering
- *.*; Full Path
- *.*; Hid/Sys
- *.*; Full Path,Hid/Sys

Conversions

- Convert to PDF
- Reduce photos
- Watermark

Add



Encrypt Files with Password using Winzip

Configure your Winzip encryption settings to AES 256

The screenshot shows the WinZip application window with the 'Settings' menu open and the 'Encryption' option selected. A tooltip titled 'Encryption settings' explains that AES (128-bit and AES (256-bit) provide a stronger measure of security than Zip 2.0 (Legacy) which is known to be relatively weak but compatible with most Zip utilities. An 'Encryption Settings' dialog box is open in the foreground, displaying the following text:

Encryption Settings

When enabled, the selected method is used to encrypt files added to a Zip file.

Encryption Method

- 256-bit AES
- 128-bit AES
- Legacy (Zip 2.0)

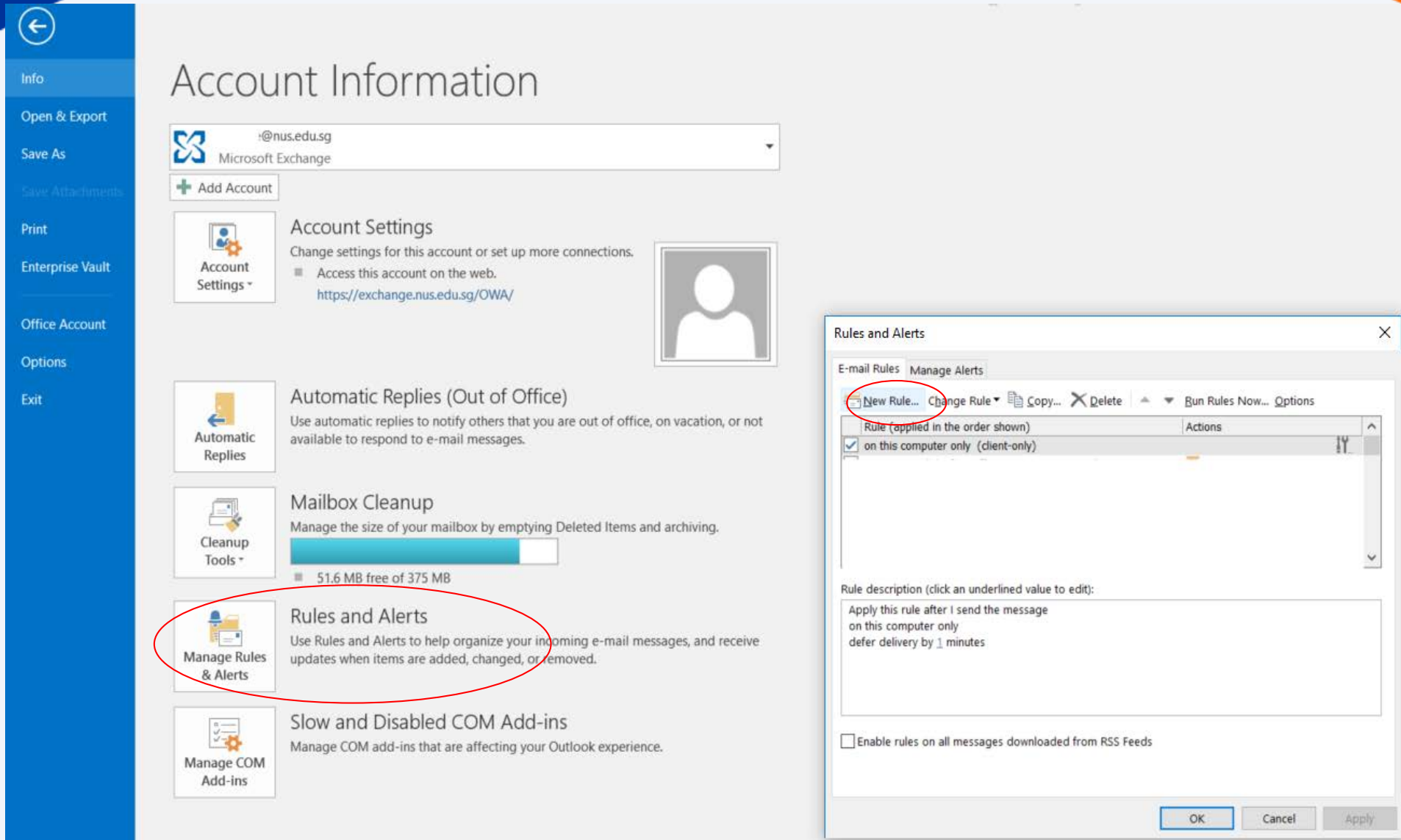
[More information about encryption and encryption methods](#)

OK

In the background, the WinZip interface shows a file list with items like 'CBT_Malicious_Links.zip' and 'CBT_All_Modules.zip'. On the right side, there are several toggle switches for 'Encrypt', 'Reduce Photos', 'Convert to PDF', and 'Watermark', all currently turned off.

Deferment of Email Delivery

From outlook client, go to **File->Rules and Alerts->New Rule**



The screenshot shows the Outlook 'Account Information' page. The 'Rules and Alerts' option is circled in red. A 'Rules and Alerts' dialog box is open, showing a table of rules. The 'New Rule...' button is also circled in red. The dialog box shows a rule named 'on this computer only (client-only)' with a checkmark in the 'Rule (applied in the order shown)' column. The rule description is: 'Apply this rule after I send the message on this computer only defer delivery by 1 minutes'. There are 'OK', 'Cancel', and 'Apply' buttons at the bottom of the dialog.

Account Information

Info

Open & Export

Save As

Save Attachments

Print

Enterprise Vault

Office Account

Options

Exit

Account Settings

Automatic Replies (Out of Office)

Mailbox Cleanup

Rules and Alerts

Slow and Disabled COM Add-ins

Rules and Alerts

Rule (applied in the order shown)	Actions
<input checked="" type="checkbox"/> on this computer only (client-only)	

Rule description (click an underlined value to edit):

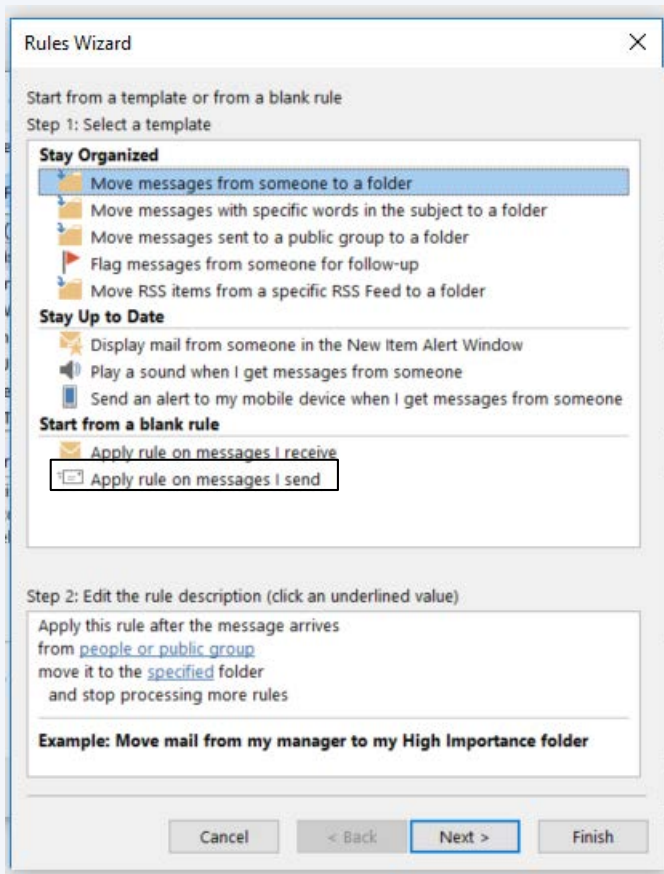
Apply this rule after I send the message
on this computer only
defer delivery by 1 minutes

Enable rules on all messages downloaded from RSS Feeds

OK Cancel Apply

Deferment of Email Delivery

Select the option, “**Apply rule on message I send**”. Click the button, “**Next**”



Rules Wizard

Start from a template or from a blank rule
 Step 1: Select a template

Stay Organized

- Move messages from someone to a folder
- Move messages with specific words in the subject to a folder
- Move messages sent to a public group to a folder
- Flag messages from someone for follow-up
- Move RSS items from a specific RSS Feed to a folder

Stay Up to Date

- Display mail from someone in the New Item Alert Window
- Play a sound when I get messages from someone
- Send an alert to my mobile device when I get messages from someone

Start from a blank rule

- Apply rule on messages I receive
- Apply rule on messages I send**

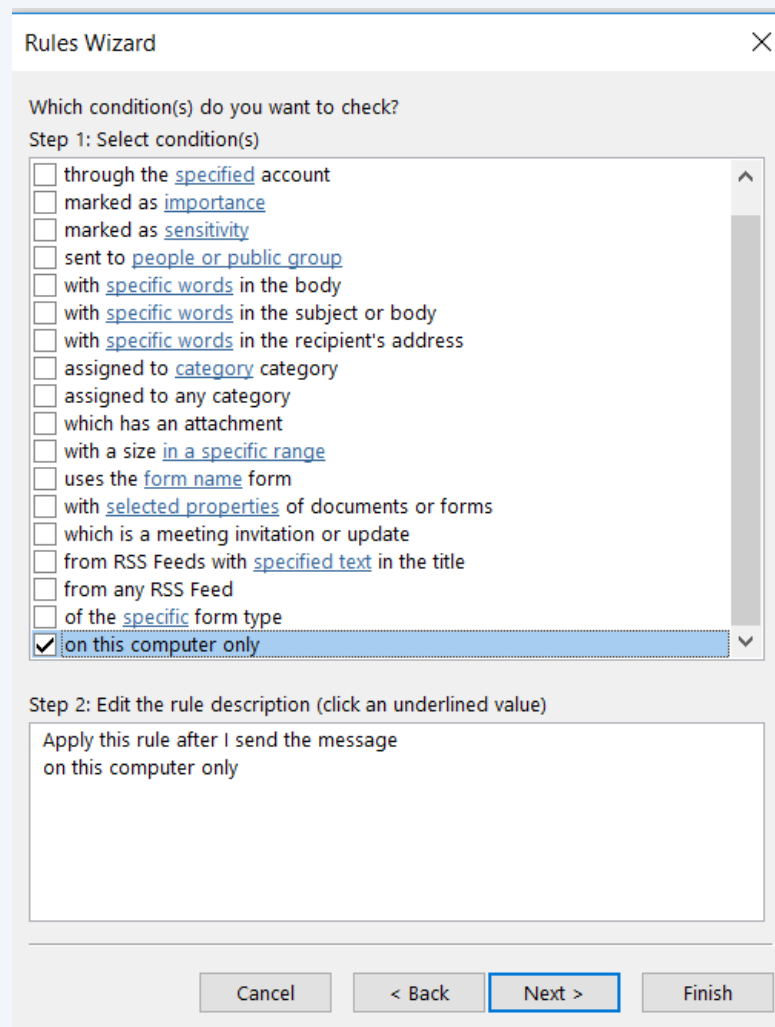
Step 2: Edit the rule description (click an underlined value)

Apply this rule after the message arrives from people or public group move it to the specified folder and stop processing more rules

Example: Move mail from my manager to my High Importance folder

Cancel < Back **Next >** Finish

Select the option, “**Apply on this computer only**”. Click the button, “**Next**”



Rules Wizard

Which condition(s) do you want to check?
 Step 1: Select condition(s)

- through the specified account
- marked as importance
- marked as sensitivity
- sent to people or public group
- with specific words in the body
- with specific words in the subject or body
- with specific words in the recipient's address
- assigned to category category
- assigned to any category
- which has an attachment
- with a size in a specific range
- uses the form name form
- with selected properties of documents or forms
- which is a meeting invitation or update
- from RSS Feeds with specified text in the title
- from any RSS Feed
- of the specific form type
- on this computer only**

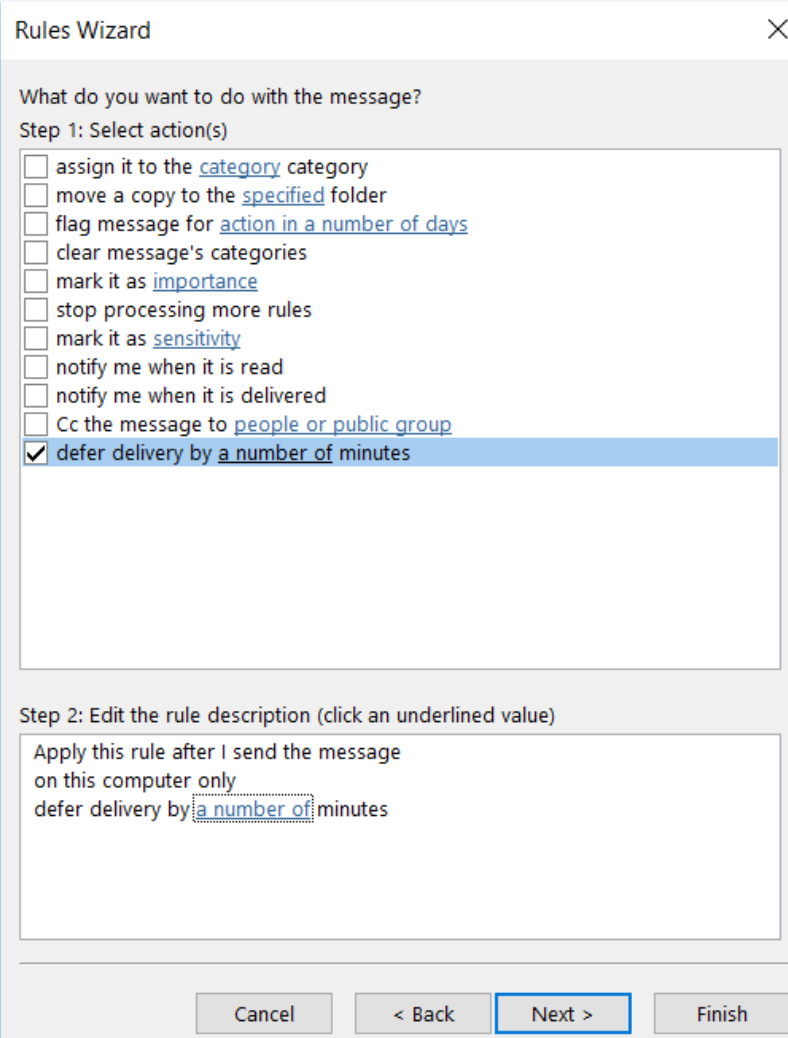
Step 2: Edit the rule description (click an underlined value)

Apply this rule after I send the message on this computer only

Cancel < Back **Next >** Finish

Deferment of Email Delivery

Select the option, “**Defer delivery by a number of minutes**”. Click on the hyperlink, “a number of” and specify the number of minutes to delay. Click the button, “**Finish**”



Rules Wizard

What do you want to do with the message?

Step 1: Select action(s)

- assign it to the [category](#) category
- move a copy to the [specified](#) folder
- flag message for [action in a number of days](#)
- clear message's categories
- mark it as [importance](#)
- stop processing more rules
- mark it as [sensitivity](#)
- notify me when it is read
- notify me when it is delivered
- Cc the message to [people or public group](#)
- defer delivery by [a number of minutes](#)

Step 2: Edit the rule description (click an underlined value)

Apply this rule after I send the message
on this computer only
defer delivery by [a number of](#) minutes

Cancel < Back Next > Finish

Sharing out Confidential Data Unknowingly

What is Open Shares

This a user misconfiguration where shared folder permission is set to allow EVERYONE to have full access. It provides a very easy and effective way for attackers to browse and steal the (sensitive) data without any hacking tool or skill.

What should I DO

You should do a self-check on your computer to discover if there is any Open Shares or folder that has been shared unintentionally, and remove it immediately.

SECURITY ADVISORY

NUS COMPUTER CENTRE

Dear Colleagues,

Sometimes we share files and folders on our Windows PC with colleagues for work purpose. However, if the security permissions are not set correctly, the (sensitive) data being shared will be exposed and accessible to anyone, including unauthorized personnel. Stealing data via insecure shared folders can be easily done by someone who is moderately IT savvy.

We suggest that you perform a self-check on your PC to find and remove any insecure shared folders. Please click [here](#) for the detailed steps.

Computer Centre will also perform regular scans on all staff PCs to check for insecure shared folders. The relevant department management will be notified if insecure shared folders are identified.

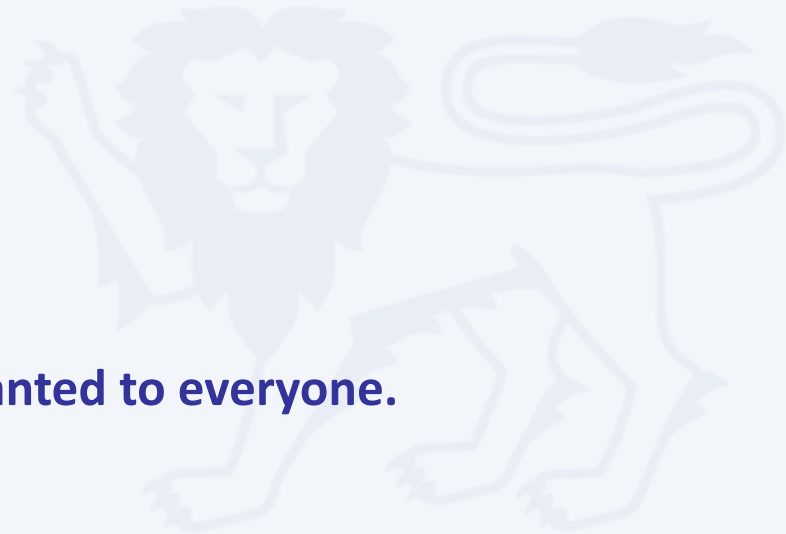
Regards,

Wu Wenlong
Head (IT Security)

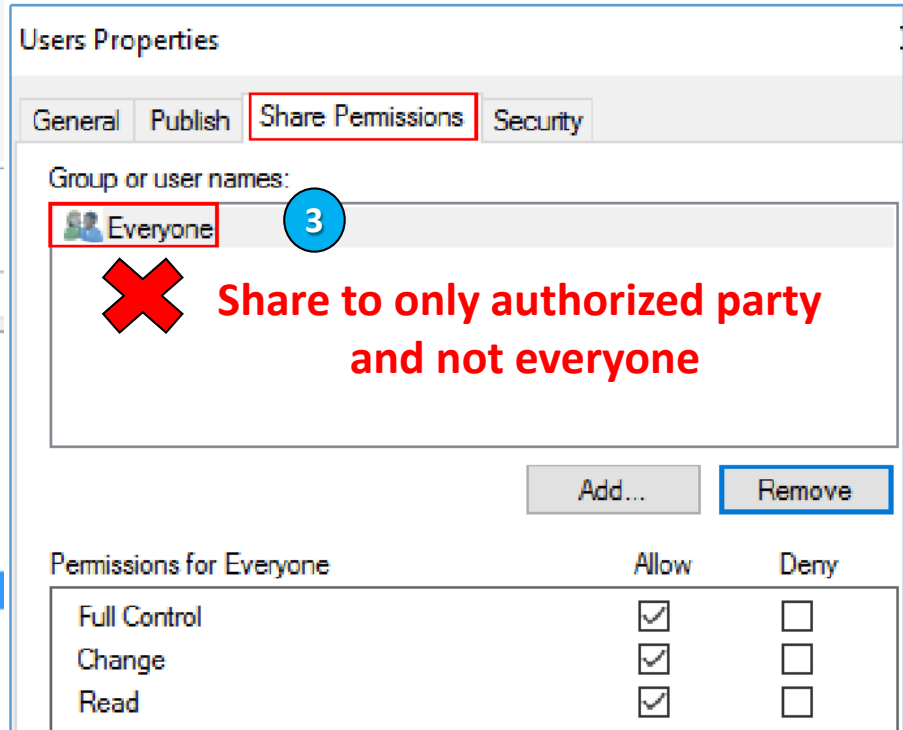
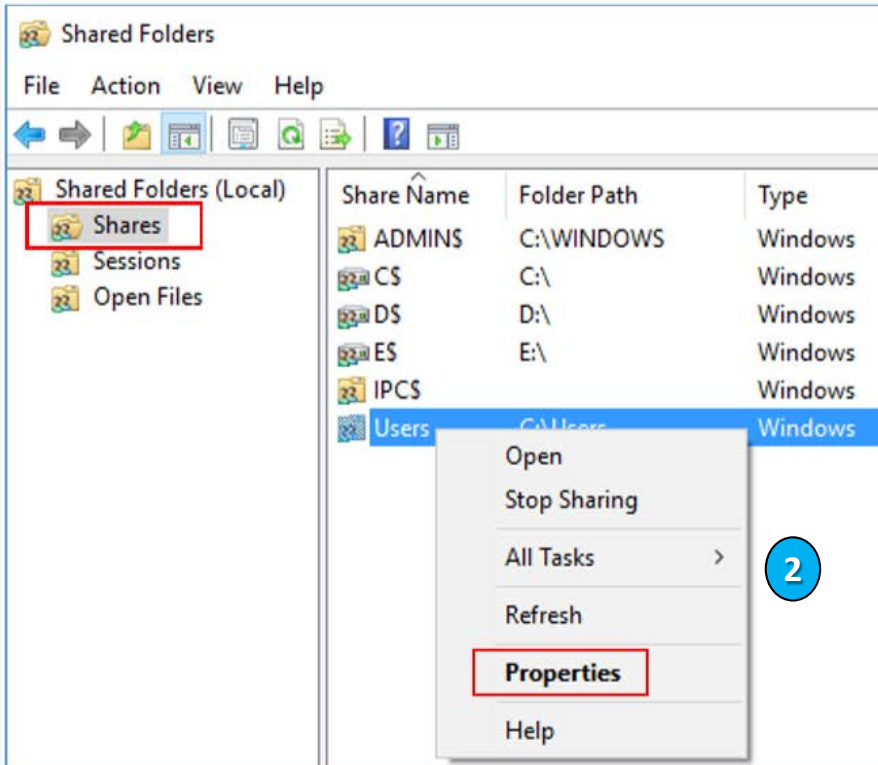
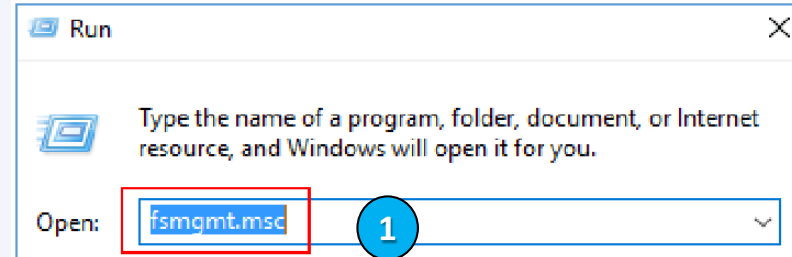


What is an Open Share folder?

Answer: Folder with full access right granted to everyone.



Remove Insecure Share Folders



https://comcen.nus.edu.sg/services/it_security/data-security/check-and-remove-insecure-shared-folders/



How can I share data with other colleagues?

Answer: Use Nbox, Sharepoint



**Do I need to
encrypt NUS data
that are stored on
portable storage?**

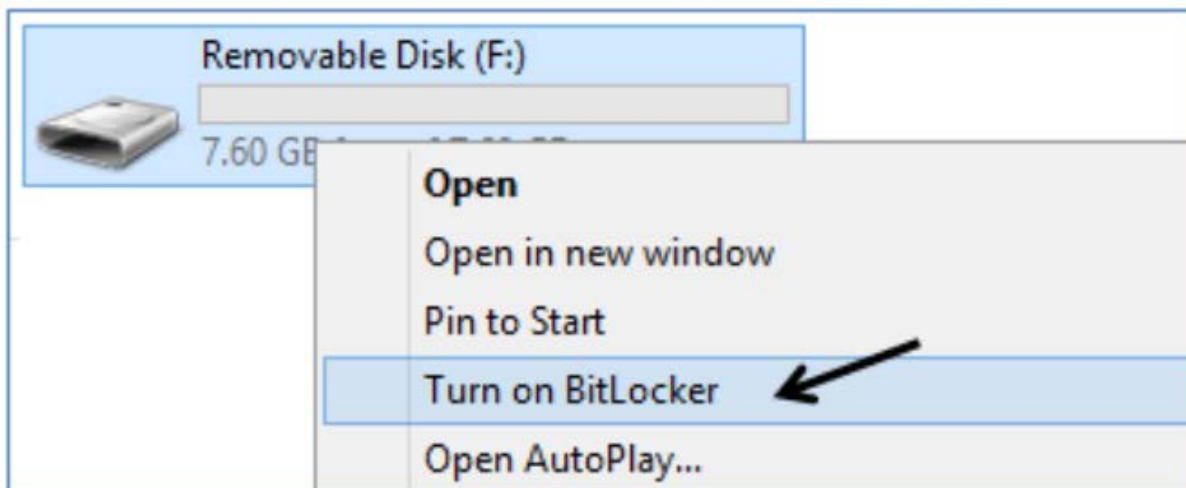
Answer: Yes, use Bitlocker. Refer to Guideline for Use, Classification and Protection of Data, Section D, Table 2.

Enable Bit Locker

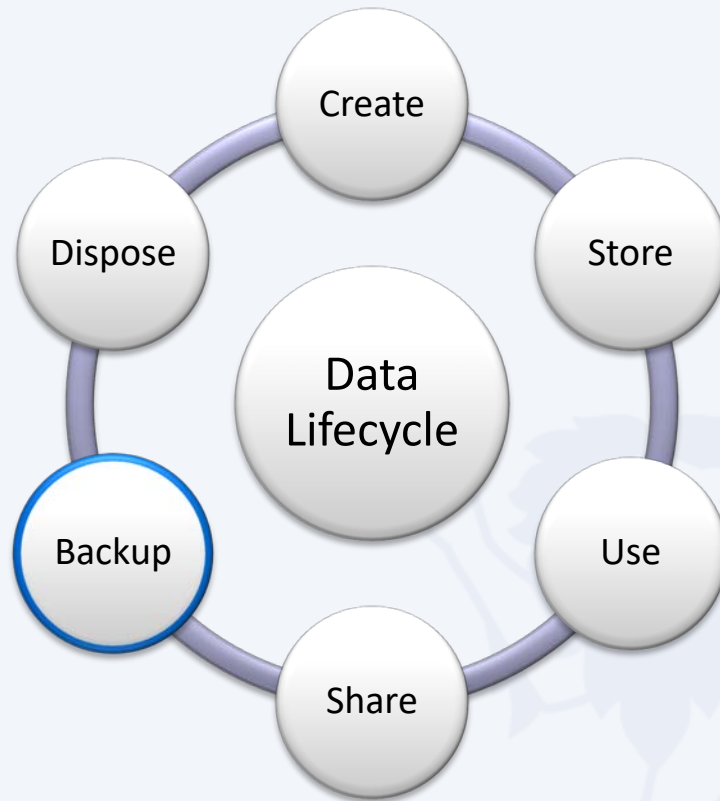
Source: <https://nusit.nus.edu.sg/its/resources/bitlocker/install-bitlocker/>

Window 10

1. Insert your thumbdrive into your computer.
2. Go to Computer and look for the drive letter assigned to your thumbdrive.
3. Right-click the drive and select Turn on BitLocker.



Data Lifecycle & Data Protection Best Practices



Backup data using Nbox

SERVICE LAUNCH

NUS INFORMATION TECHNOLOGY

Dear Colleagues,

In today's world of Cloud services and data mobility, we expect our digital belongings to be available to us from anywhere. Cloud storage services such as Dropbox and Google Drive allows us to access and share our personal documents and media files from any device. But, how can we do the same for our University data?

NUS IT is pleased to introduce nBox - a storage solution that allows you to access, sync and share data easily and securely from any device.

Why nBox?

It is *spacious*

- You get **1TB** of personal storage space.
- You can upload files as large as **1TB** to your personal storage space.

It is *secure*

- You have full control on who can access your data.
- You can remotely delete your data from a lost or stolen device.

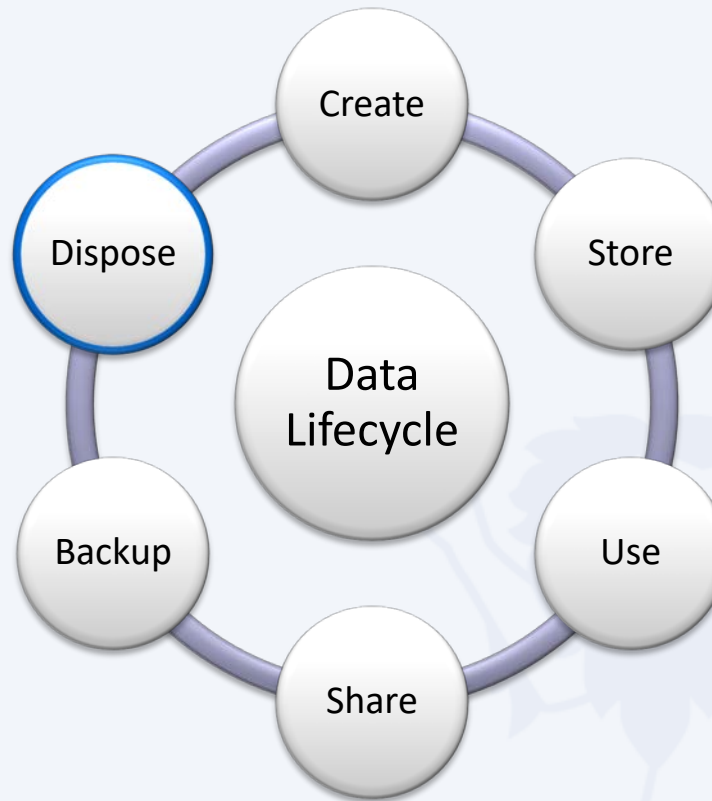
It is *simple*

- nBox syncs your files and folders automatically across all your devices.
- nBox works just like your Windows or Mac folders.

Reference: https://nusit.nus.edu.sg/services/online_storage/nbox/

Data Lifecycle & Data Protection Best Practices

**Dispose data securely
using Blancco.**



SERVICE LAUNCH

NUS INFORMATION TECHNOLOGY

Dear Colleagues,

Did you know that it is mandatory to securely erase University data stored in storage media before disposal? In our continuous effort to enable the NUS Community to do that, NUS Information Technology has launched a new data wiping tool called **Blancco** Drive Eraser (**Blancco**). This will replace Darik's Boot and Nuke (DBAN).

The key feature of **Blancco** is the ability to securely erase Hard Disk Drives (HDD) and Solid State Drives (SSD). **Blancco** is licensed for use on NUS owned assets. Please visit our website "<https://inetapps.nus.edu.sg/comcen/security/protect-data/secure-hard-disk-disposal-using-blancco.html>" (please copy and paste the link) for more details and to download **Blancco**. Do note that connection to NUS network via LAN (Local Area Network) cable is required for **Blancco** to work.

Please contact IT Care at ITCare@nus.edu.sg or 6516 2080 for further queries.

Regards,

Tan Teng Heng
Senior Associate Director



NUS
National University
of Singapore

Information
Technology

This email has been digitally signed by the sender for authenticity. Simply click this icon  on the top right hand corner to verify the sender. Kindly take note that this icon may not appear if this mail is forwarded.

Reference: <https://inetapps.nus.edu.sg/comcen/security/protect-data/secure-hard-disk-disposal-using-blancco.html>

Dispose Data Securely

Dumping paper with personal info?
Shred it, says watchdog



A logo of the United Overseas Bank Limited seen in Singapore's central business district on January 7. PHOTO: REUTERS

Source: Straits Times 21 Jul 2016

Paper containing personal information must be shredded into small pieces and not dumped in unsecured bins.

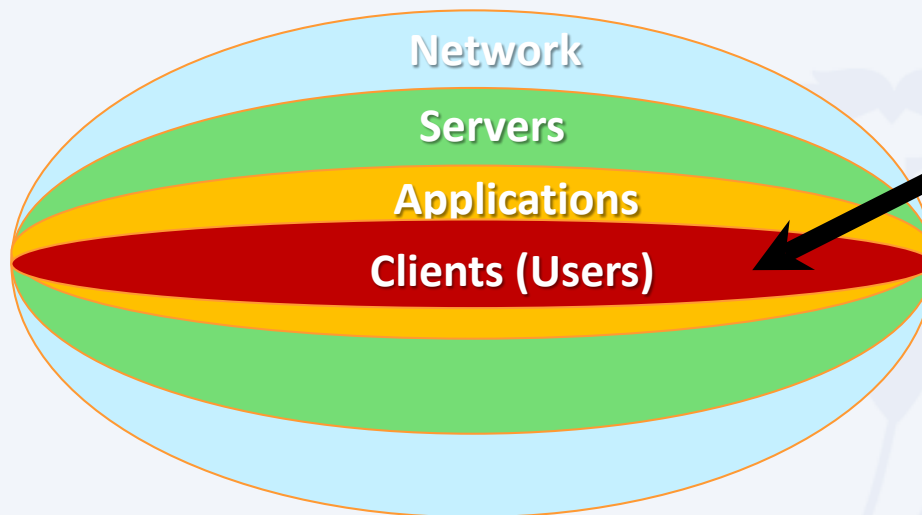
Similarly, personal data stored on electronic media such as computer hard disks, USB drives or DVDs must be erased using specialised software to avoid accidental data leaks



When and how do I report Data loss?

Answer: Report immediately your supervisor and to cceda@nus.edu.sg

Trending Cyber Attacks Techniques: Phishing, Digital Currency Mining & Ransomware



“91% of Cyberattacks begins with Phishing Email “

– TrendMicro



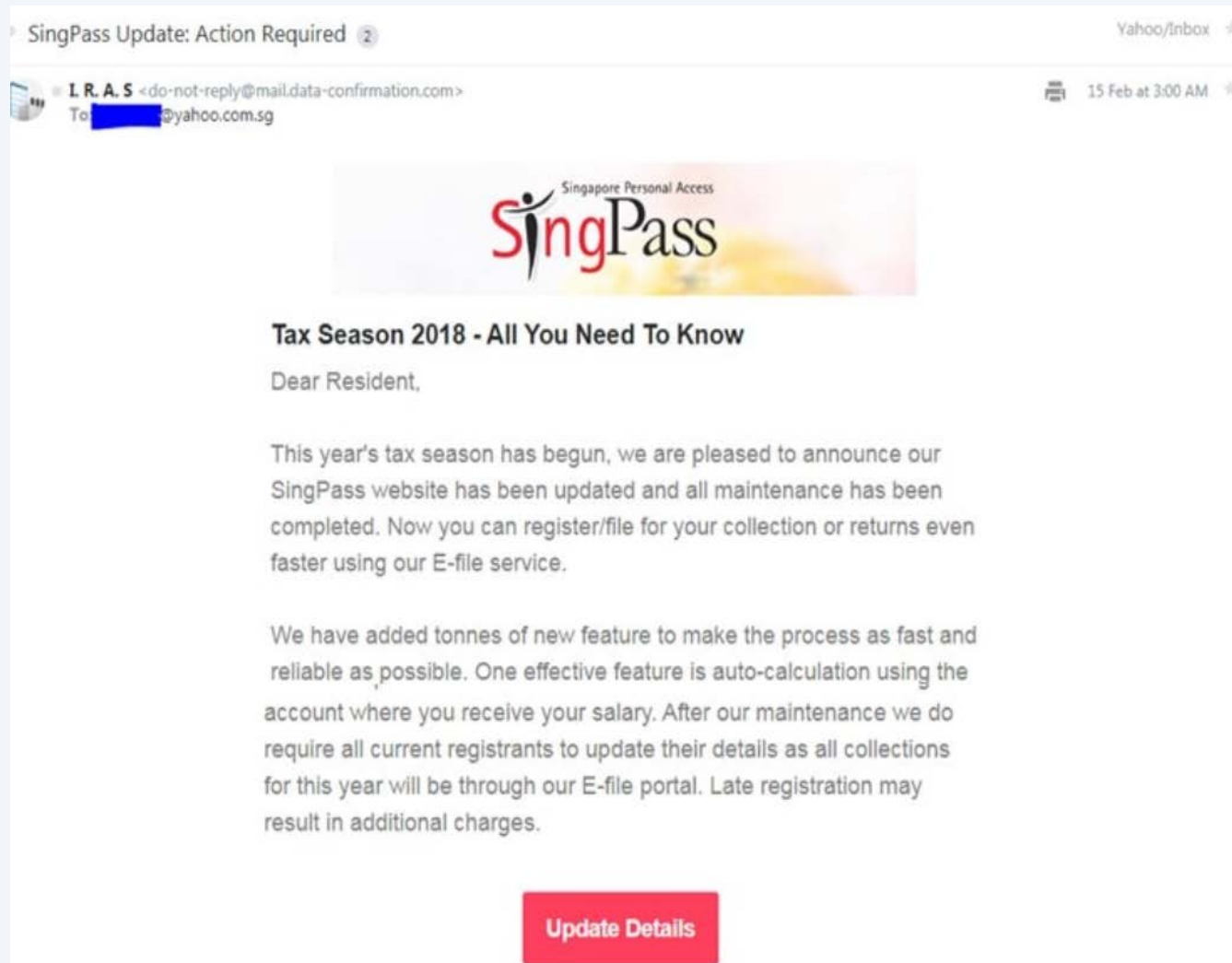
Phishers use email to:

- Trick you into **handing over your user information** so that they can gain access to your system and network.
- **Entice you to click on links that take you to web sites** that will infect your computer with malware just by visiting it.
- Deliver **file attachments** that can infect your computer with malware.



Think Before You Click

Phishing email with website link



Source: <https://www.iras.gov.sg/irashome/News-and-Events/Announcements/Advisory-on-Scam---Fraudulent-Activities/>

Phishing email with Attachment

Singtel warns of fake billing e-mail

PUBLISHED MAR 23, 2017, 5:00 AM SGT

Source: Straits Times



Singtel advises recipients of suspicious e-mails "not to respond to or click on any links in the message" and to delete such e-mails immediately.



ST understands that there were e-mails sent on Monday and Tuesday from noreply-
s2@singtel.com.sg with the header "Your Sigtel (sic) bill is now available for download"



How to identify a spoofed email address?



How to identify spoofed account?

Reply Reply All Forward
 Tue 20/12/2016 7:02 PM
 **@nus.edu.sg** <emailszmkg@bmintelligence.com>
Sender Not Verified De:Job Online!Start earn 1.000 dollars per day
 To: 

<http://1015.risokha.com>

Mon 16/1/2017 8:07 AM
 Computer Centre
 Security Advisory on Phishing Email with Malicious Attachment
 To: NUS Staff
 Signed By: computercentre@nus.edu.sg

SECURITY ADVISORY
 NUS COMPUTER CENTRE

Dear Colleagues,

Phishing Email with Malicious Attachment

File Message Insert Options Format Text Review Developer Tell me what you want to do...

Paste Copy Format Painter Clipboard Basic Text Names Include


Address Book Check Names Attach File Attach Signature

We won't be able to deliver this message to itcare-sec@nus.edu.sg because the email address is no longer valid.

To: itcare-sec@nus.edu.sg
 Cc:
 Subject:

Digital Signature: Valid


Subject: Security Advisory on Phishing Email with Malicious Attach
 From: Computer Centre
 Signed By: computercentre@nus.edu.sg

 The digital signature on this message is Valid and Trusted.
 For more information about the certificate used to digitally sign the message, click Details.

Details...
 Close

Warn me about errors in digitally signed e-mail before message open

Message Security Properties

 Subject: Security Advisory on Phishing Email with Malicious Attac

Messages may contain encryption and digital signature layers. Each digital signature layer may contain multiple signatures.

Security Layers
 Select a layer below to view its description.

- Subject: Security Advisory on Phishing Email with Malicious Attacm
- Digital Signature Layer
 - Signer: computercentre@nus.edu.sg

Description:
 OK: Signed message.

Click any of the following buttons to view more information about or make changes to the selected layer:

Edit Trust... View Details... Trust Certificate Authority...

Warn me about errors in digitally signed e-mail. Close

How to identify spoofed account?



- 1 Look out for "Sender Not Verified" in the subject
- 2 Look out for digital signature
- 3 Type the email address at the "to" field and click on check names





Can Phishing email be sent from legitimate account?

Answer:

Yes, the account could be compromised. Report any suspicious email using Phishing button.

How to spot a Phishing Email?



- 1 Are you expecting the email? Is it the norm?
- 2 Examine the email address. Is it valid email address?
- 3 Examine the URL. Does it show NUS domain? i.e. nus.edu.sg

subdomain e.g. organization directory

<http://pages.example.com/archive/index.html>

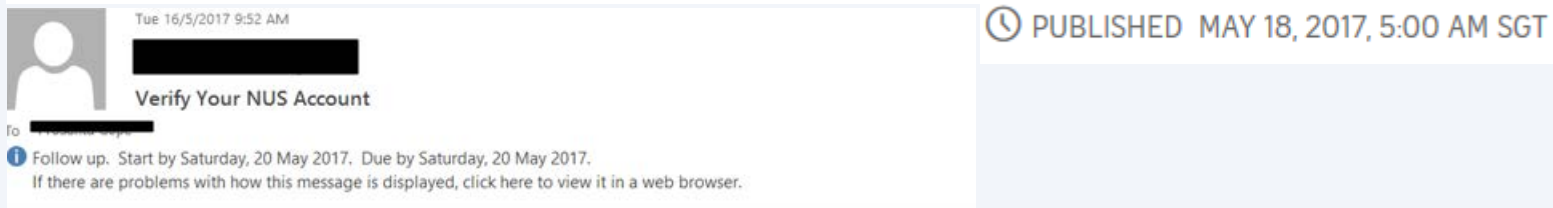
protocol domain e.g. industry or country filename

- 4 Copy and paste URL into edge browser.

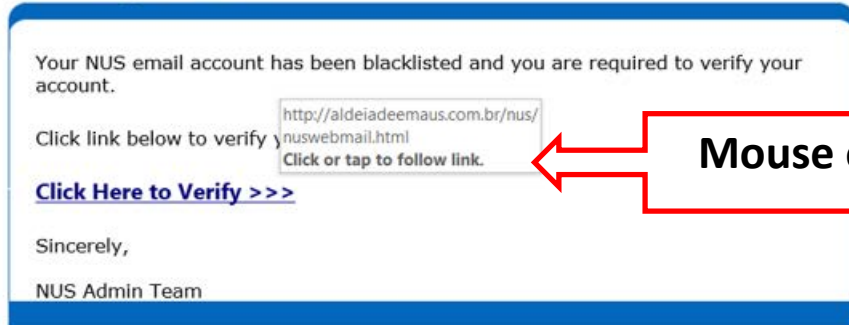
Phishing Email from Legitimate Account

NUS staff hit by 'spear phishing' in new cyber attacks

....Spear phishing is the fraudulent practice of sending e-mail from trusted sender, to trick targeted individual to reveal information, click on malware infected link or attachment.



← Image included directly from NUS website



← Mouse over link show non NUS website

© National University of Singapore

← Valid NUS website address

Is this a Phishing email?



From: IT Care [mailto:it_care@nus.edu.sg]

Sent: Monday, 9 January 2017 9:13 AM

To: [REDACTED]

Subject: Your mailbox limit has exceeded

Importance: High

Dear Colleagues,


This is a gentle reminder to you from NUS Messaging Team. [Click or tap to follow link.](#)

have exceeded your mailbox limit. You are required to [login](#) to delete messages from your inbox, junk and deleted item folders. Failure to do so immediately will render your account deactivated.

Sincerely,
NUS Messaging Team

http://login.enterpriserewards.com.sg/be3428/?login_id=0ff8ece9-c297-493d-a1c4-771e4868e96

Answer:

 Thu 11/10/2016 2:49 PM
IT Care <IT_care@nus.edu.sg>
Your mailbox limit has exceeded

To
 This message was sent with High importance.

2 Mouse over the hyperlink. Does it show NUS domain? For example, <https://exchange.nus.edu.sg/>.

1 Examine if the Sender Address is valid. The correct email address for ITCARE should be ITCARE@nus.edu.sg and not IT-CARE@nus.edu.sg.

3 Forged login pages that looks like the real one are often used to steal user information in phishing email.

Dear Colleagues,

This is a gentle reminder to you from NUS Messaging Team that you have exceeded your mailbox limit. You are required to [login](#) to delete messages from your inbox, junk and deleted item folders. Failure to do so immediately will render your account deactivated.

Sincerely,
NUS Messaging Team

4 Flustering recipient by creating a sense of urgency and scaring recipient are common tactics used in phishing email.

How to Spot a Fake Website?

<http://www.straitstimes.com/singapore/staying-vigilant-how-to-spot-a-fake-website>
<https://www.allsingaporestuff.com/article/cpf-board-beware-fake-cpf-website-do-not-log-it>

1) Suspicious website address.

2) The address of the webpage where you submit information is unsecured - meaning it does not start with "https://" and the lock symbol is missing from the status bar.

3) Asking for more information than required, such as credit card numbers and security code.



Search Within CPF Website

About Us | News | Join Us | Useful Links | Contact Info | Feedback | Sitemap

Tools Services FAQ



CPF e-Submit:
 Submission here!

www2.cpf.gov.sg/ert



Login here with your
 SingPass for my cpf
 Online Services

Login Here



ST

SINGAPORE

POLITICS

ASIA

WORLD

MULTIMEDIA

LIFESTYLE

FORUM

OPINION

BUSINESS

SPORT

SINGAPORE

Courts & Crime

Education

Housing

Transport

Health

Manpower

Environment

Staying vigilant - how to spot a fake website



Search Within CPF Website

About Us | News | Join Us | Useful Links | Contact Info | Feedback | Sitemap

Members

Employers

Home

CPF Schemes

Tools

Services

FAQ



Make the most of your CPF savings today

Learn More



Login here with your
 SingPass for my cpf
 Online Services

Login Here

Notice: CPF e-services catering to more than 200 languages may experience slow or intermittent access.

Phishing Alert: It has come to our attention that there are fake websites that impersonate the CPF website. We would like to take this opportunity to advise you to be vigilant and cautious when using the internet, especially for transactional purposes. Please be vigilant and do not provide any sensitive information concerning CPF matters.



Secure

<https://www.cpf.gov.sg/members>



How to verify a malicious Website?

Answer:

Use online scanner to help determine if a website is malicious such as <https://www.virustotal.com>, or website that has been reported as Phishing site using <https://www.phishtank.com/>

<https://www.virustotal.com/>



VirusTotal is a free service that **analyzes suspicious files and URLs** and facilitates the quick detection of viruses, worms, trojans, and all kinds of malware.

 File

 URL

 Search

Enter URL

Scan it!

<https://www.phishtank.com/>



- Home
- Add A Phish
- Verify A Phish
- Phish Search
- Stats
- FAQ
- Developers
- Mailing Lists
- My Account

Join the fight against phishing

Submit suspected phishes. **Track** the status of your submissions.
Verify other users' submissions. **Develop** software with our free API.

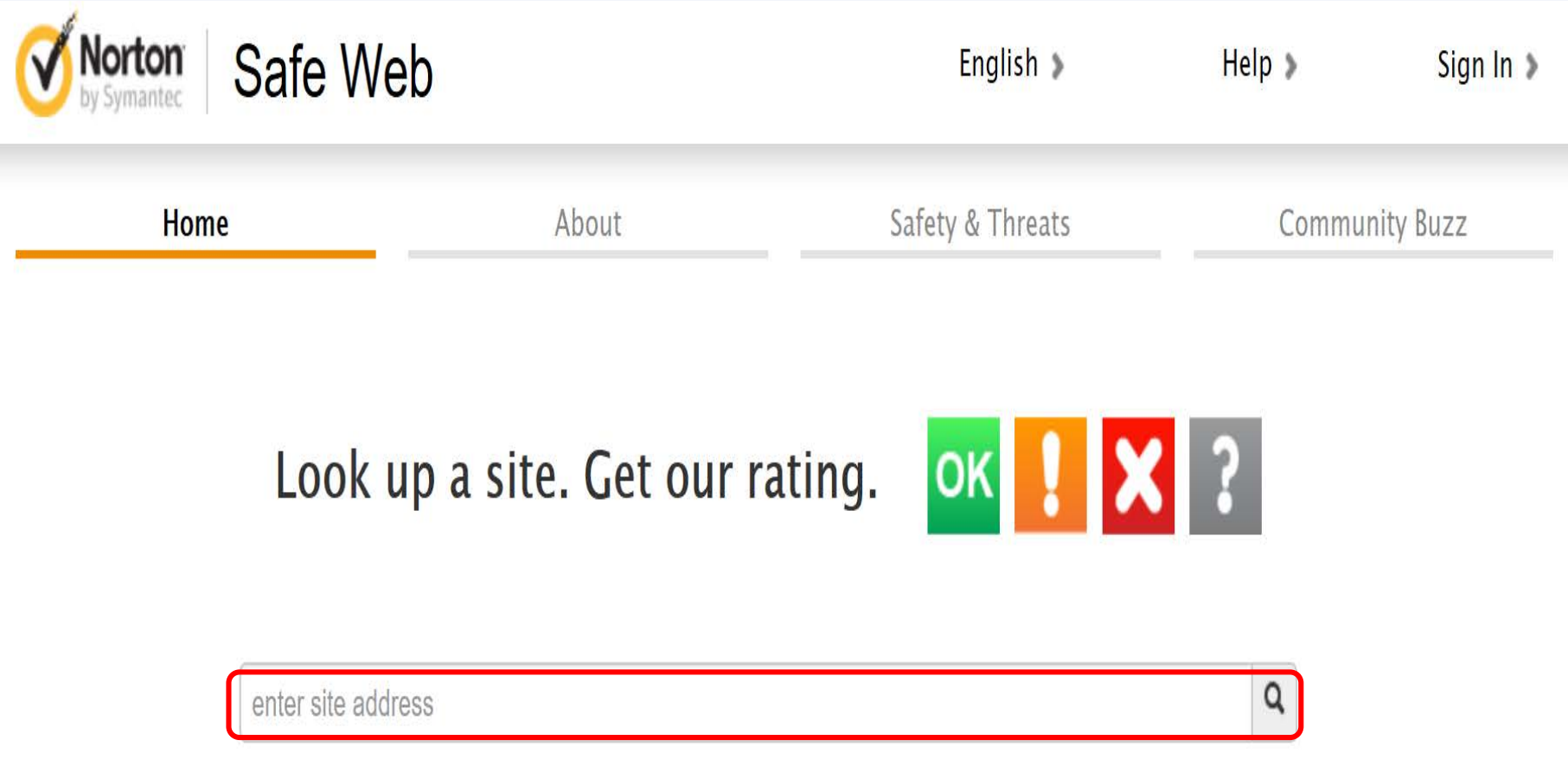
Found a phishing site? Get started now — see if it's in the Tank:

Recent Submissions

You can help! [Sign in](#) or [register](#) (free! fast!) to verify these suspected phishes.

ID	URL	Submitted by
5019815	https://paypal-limited-balance.gq	PhishReporter
5019812	https://node-324-microsoft-ssrv-live.gsrv.site/hot...	Hack
5019810	http://www.mkphoto.by/olb/1/sucursalpersonas.trans...	dms

<https://safeweb.norton.com/>



The screenshot shows the Norton Safe Web website. At the top left is the Norton by Symantec logo. To its right is the text "Safe Web". Further right are links for "English", "Help", and "Sign In". Below this is a navigation bar with four items: "Home" (highlighted with an orange underline), "About", "Safety & Threats", and "Community Buzz". The main content area features the text "Look up a site. Get our rating." followed by four colored icons: a green "OK" icon, an orange "!" icon, a red "X" icon, and a grey "?" icon. Below this is a search input field with the placeholder text "enter site address" and a search icon on the right. The input field is highlighted with a red border.

<https://transparencyreport.google.com/safe-browsing/search>



Transparency Report

Reports ▼ About FAQ

Safe Browsing: malware and phishing

Overview Malware **Site status**

Safe Browsing site status

Google's Safe Browsing technology examines billions of URLs per day looking for unsafe websites. Every day, we discover thousands of new unsafe sites, many of which are legitimate websites that have been compromised. When we detect unsafe sites, we show warnings on Google Search and in web browsers. You can search to see whether a website is currently dangerous to visit.

Check site status

Phishing via Email, SMS, whatsApp

Source: Straits Times 7 Sep 2017

AXA data breach affects 5,400 Singapore customers



The Singapore arm of AXA Insurance said that the personal data of 5,400 of its customers were stolen during a cyber attack. PHOTO: REUTERS

.. e-mail address, mobile number and date of birth were exposed

AXA made a police report, and advised customers to do the same if they had inadvertently disclosed personal data as a result of phishing attempts in the last few months as it could be connected to the AXA hacking incident

This method, known as phishing, can be executed via e-mail, SMS and WhatsApp - now that hackers have users' e-mail address and mobile number

Phishing via WhatsApp

NTUC FairPrice 45th anniversary gift card message is a scam, supermarket chain warns

The new scam invites people to click on a link in a message claiming that FairPrice is giving away gift cards for its 45th anniversary.

A copy of the message that a Straits Times reader received via **WhatsApp** reads:

"Fairprice celebrates its 45th anniversary and gives each gift cards worth 400SGD each! I have just received one from here: [http:// fairprice. com /anniversary](http://fairprice.com/anniversary)".

<http://www.straitstimes.com/singapore/ntuc-fairprice-45th-anniversary-gift-card-message-is-a-scam-supermarket-chain-warns>



Phishing via Phone Calls with modified Caller ID

Singapore Airlines warns of phishing scams offering free air tickets

Beware of emails, **calls**, messages, surveys and contests that claim to be from Singapore Airlines (SIA) and which offer free air tickets or credits, said the flag carrier on Wednesday (Dec 20).



To appear more authentic, some **scammers modify their caller ID** to imitate SIA's official telephone numbers. ... The airline also advised customers to be on the alert for phishing websites that appear similar to the official SIA website, and to exercise caution in sharing their personal details online.

<https://www.channelnewsasia.com/news/singapore/singapore-airlines-warns-of-phishing-scams-offering-free-air-9513474>

Commonly Spoofed Sector, Brand and Organizations

Source: Straits Times 16 Sep 2017

PHISHING



2,512 phishing URLs
with Singapore link

43% of security incidents reported
to SingCert by **individuals
and SMEs** occurred through
phishing attacks

Commonly spoofed
SECTOR



Banking
and
finance

Commonly spoofed
BRANDS

PayPal
Dropbox
Google

Commonly spoofed
**GOVERNMENT
ORGANISATIONS**

Ministry of Manpower
Immigration & Checkpoints
Authority

Source: CYBER SECURITY AGENCY OF SINGAPORE STRAITS TIMES GRAPHICS

What is the impact of Phishing?

<http://www.straitstimes.com/singapore/380000-uber-users-hit-in-spores-largest-data-breach>

380,000 Uber users hit in Singapore's largest data breach



Personal information of 380,000 people here, including names, e-mail addresses and mobile phone numbers, were exposed when Uber was hacked last year, the ride-sharing company disclosed yesterday - owning up to what is Singapore's largest data breach to date.

...the company has not seen evidence of fraud or misuse tied to the incident. But it did encourage users to report anything unusual related to their accounts.

What is the impact of Phishing?

<https://www.wired.com/story/uber-paid-off-hackers-to-hide-a-57-million-user-data-breach/>

Hack Brief: Uber Paid Off Hackers to Hide a 57-Million User Data Breach



According to Bloomberg, Uber's 2016 breach occurred when hackers discovered that the company's **developers had published code that included their usernames and passwords on a private account of the software repository Github.**

Those credentials gave the hackers immediate access to the developers' privileged accounts on Uber's network, and with it, access to sensitive Uber servers hosted on Amazon's servers, including the rider and driver data they stole.



Published Nov 21, 2017

Think Before You Click



Phishing Reporter Button



Mon 9/1/2017 8:17 AM

Computer Centre

[New Service] Report Phishing with click of a button

 To **NUS Staff**

Signed By computercentre@nus.edu.sg

SERVICE LAUNCH

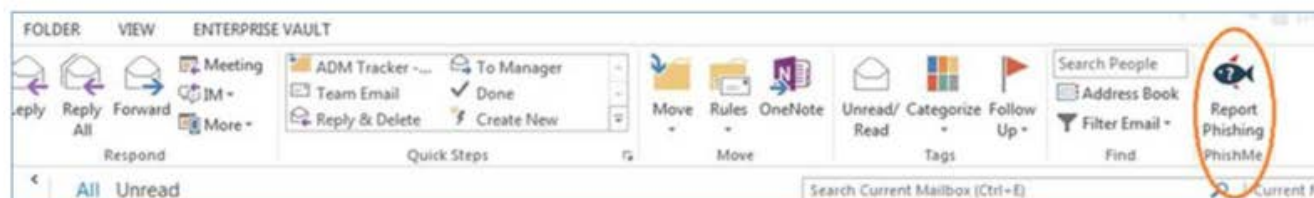
NUS COMPUTER CENTRE

Dear Colleagues,

Organizations suffer from data breaches when attackers gain unauthorised access to an organization's computers and network through phishing emails. To mitigate the risk from such threats, Computer Centre has made a concerted effort to increase security awareness and conduct regular phishing drills. From 9 Jan 2017, we will be rolling out a "Phishing Reporter" button progressively to all Outlook client of computers on NUS network. This will allow you to report Phishing or suspicious email conveniently.

For Windows Computer Users

From 9 Jan 2017, you may see the "Phishing Reporter" button installed on your Microsoft Outlook when you reopen it. No action is required on your part.



However, if you did not see the "Phishing Reporter" button after 19 Jan 2017, please install it via [Software Centre](#).

For MAC Users

Follow the instructions [here](#) to install the "Phishing Reporter" button.

How do I report Phishing or Suspicious Email?

Select the Phishing or suspicious email in the Outlook client and click on the "Phishing Reporter" button.

What happens after I clicked the "Phishing Reporter" button?

The reported email will be removed from your "Inbox" folder and forwarded to Computer Centre for investigation. A copy will remain in your "Sent Items" folder.

The information you provided will help to determine the source of attacks and prevent similar attacks on NUS.

If you have any query, please contact IT Care at 6516 2080 or ITCare@nus.edu.sg.



How do I report Suspicious or Phishing Email?

Answer:

Report suspicious email using Phishing Reporter Button

Email to ITCARE@nus.edu.sg



or



How do I know if my account is being stolen?

Answer: Check out haveibeenpwned.com or pastebin.com

<https://haveibeenpwned.com/>

';--have i been pwned?

Check if you have an account that has been compromised in a data breach

email address or username

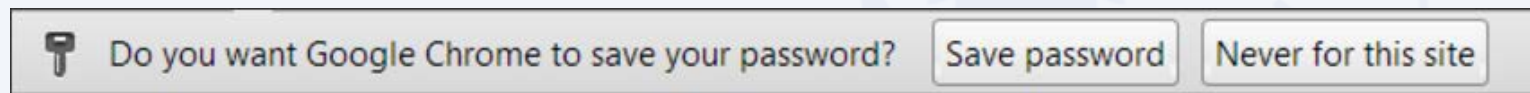
pwned?

You can try key your email account over here

Best Practices: Account & Password



- 1 Use strong password: minimum of twelve (12) characters in length and be comprised of letters, numbers, and/or special characters.
- 2 Change password periodically.
- 3 Use different account and password for social media and work.
- 4 Don't remember password in web browser.





Malware is Growing Fast

- <http://www.darkreading.com/vulnerabilities---threats/every-4-seconds-new-malware-is-born/d/d-id/1320474>
- <http://nvlpubs.nist.gov/nistpubs/ir/2013/NIST.IR.7298r2.pdf>
- <http://www.iso27001security.com/html/27032.html>

InformationWeek
DARKReading CONNECTING THE INFORMATION SECURITY COMMUNITY

Follow DR:

- Home
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- Slideshows
- Video
- Radio
- Reports
- White Papers
- Events
- Black Hat

- ANALYTICS
- ATTACKS / BREACHES
- APP SEC
- CAREERS & PEOPLE
- CLOUD
- ENDPOINT
- IoT
- MOBILE
- OPERATIONS
- PERIMETER
- RISK
- THREAT INTELLIGENCE
- VULNS / THREATS

VULNERABILITIES / THREATS

5/18/2015
06:30 PM

Every 4 Seconds New Malware Is Born



New report shows rate of new malware strains discovered increased by 77 percent in 2014.

New research data out today shows that the rate of new malware variants

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4 Steps to Reduce the Risk of Malicious Insider Activity
 The challenge in detecting malicious actions exists because, in most cases,



Rise in Ransomware

<http://www.straitstimes.com/singapore/noticeable-rise-in-ransomware-infections-in-singapore-singcert/>
<https://www.csa.gov.sg/singcert/news/advisories-alerts/ransomware>

ST SINGAPORE POLITICS ASIA WORLD MULTIMEDIA LIFESTYLE FORUM OPINION BUSINESS SPORT TECH

SINGAPORE > Courts & Crime Education Housing Transport Health Manpower Environment

Noticeable rise in ransomware infections in Singapore: SingCert

PUBLISHED MAY 6, 2016, 7:59 PM SGT

Threat Finder

WARNING! Your personal files are encrypted!
Don't switch off your computer and/or internet, otherwise your key will be disabled

Private key will be destroyed on 04/21/2015 23:11 AM
Time left: **71:38:41**

- You should register Bitcoin wallet (<https://blockchain.info/en/wallet>)
- Purchasing Bitcoins - Although it's not yet easy to buy bitcoins, it's getting simpler every day.
Here are our recommendations:
LocalBitcoins.com (WU) - Buy Bitcoins with Western Union
CoinSafe.com - Recommended for fast, simple service. Payment Methods: Western Union, Bank of America, Cash by FedEx, Moneygram, Money Order. In NYC: Bitcoin ATM, In Person
LocalBitcoins.com - Service allows you to search for people in your community willing to sell bitcoins to you directly.
coinmr.com - Another fast way to buy bitcoins
bitquick.co - Buy Bitcoins Instantly for Cash
cashintocoins.com - Bitcoin for cash.
coinjar.com - CoinJar allows direct bitcoin purchases on their site.
zipzapinc.com - ZipZap is a global cash payment network enabling consumers to pay for digital currency.
- Send 1.25 BTC (\$300) to Bitcoin address specified below:

Send 1.25 BTC (\$300) to the following address: **00000000** (put in NOTE field)
or copy from QR code

Payment via Bitcoin

Check payment

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ST VIDEOS

Ransomware

Source: Symantec @ Aug 2015

There are two main forms of ransomware in circulation today:

- **Locker ransomware (computer locker):** Denies access to the computer or device
- **Crypto ransomware (data locker):** Prevents access to files or data. Crypto ransomware doesn't necessarily have to use encryption to stop users from accessing their data, but the vast majority of it does.

Both types of ransomware are aimed squarely at our digital lifestyle. They are designed to deny us access to something we want or need and offer to return what is rightfully ours on payment of a ransom. Despite having similar objectives, the approaches taken by each type of ransomware are quite different.

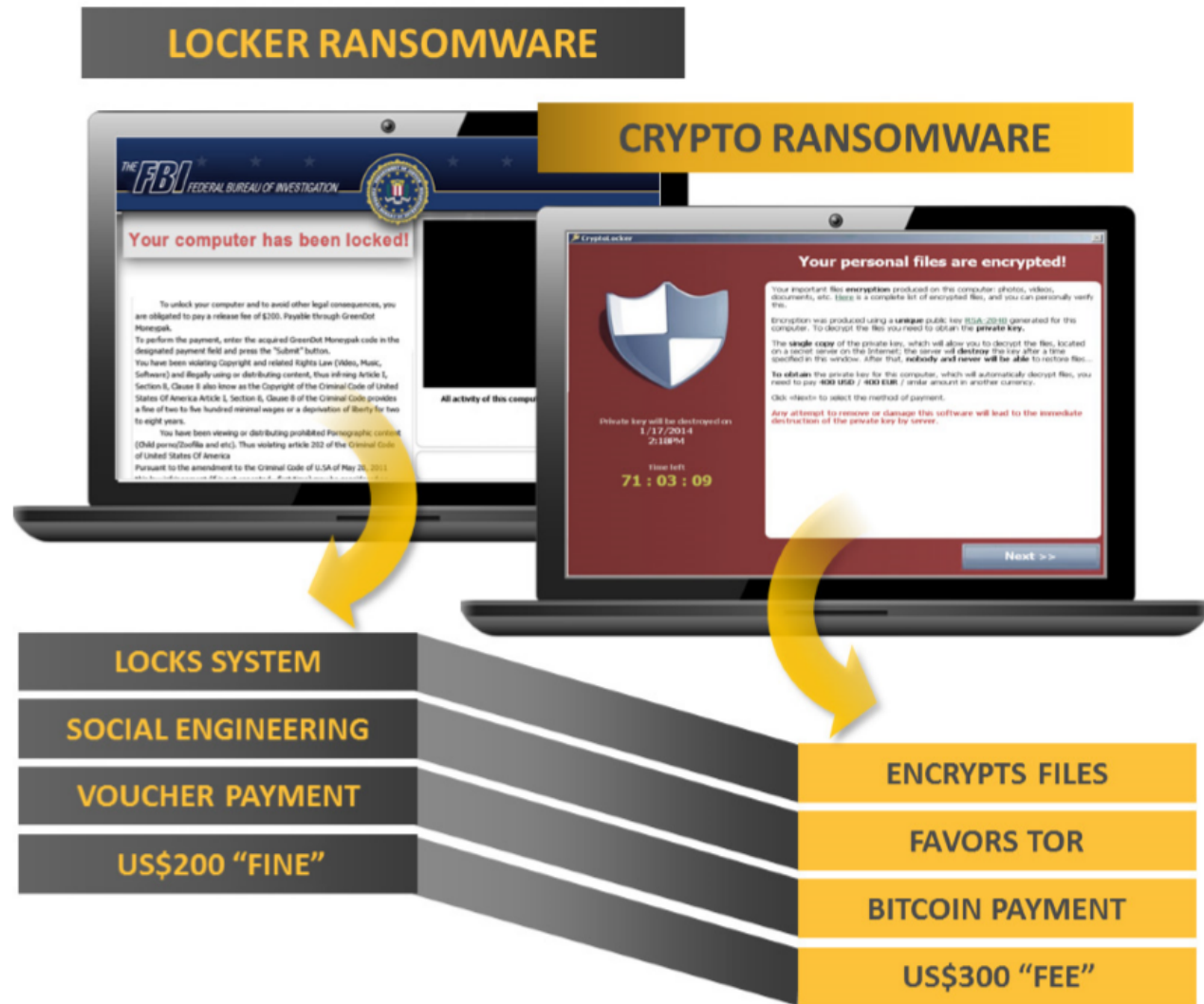


Figure 1. Two main types of ransomware are locker ransomware and crypto ransomware

Tiong Bahru Plaza's digital directory hit by global ransomware attack: Mall operator



CHANNEL NEWSASIA

14 May 2017 06:01

(Updated: 15 May 2017)

WannaCry



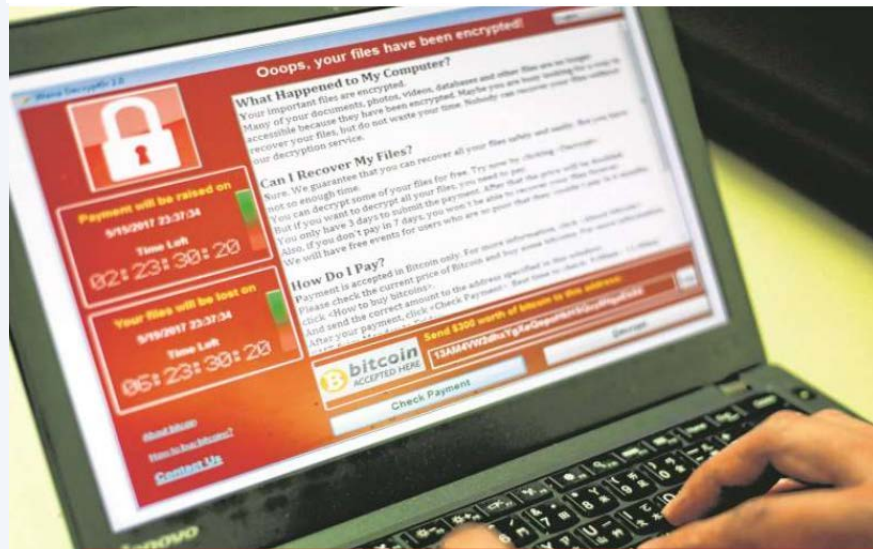
She added that the digital directory service is provided to the mall by a third-party vendor, and that the vendor's system has been disconnected from the board while a software patch is being installed.

“We have fixed all the affected systems by

replacing the HDD with a new master image with all latest MS patches, disabled SMB access and hardened the system by using a higher security mode of operation,” Mr Soh said.

WannaCry Ransomware

WannaCry ransomware: Critical sectors not affected at end of Monday



ST

PUBLISHED MAY 15, 2017, 6:49 PM SGT

Victims either did not apply a software patch, released in March (2017), to fix a known flaw in their Microsoft Windows systems, or were using old, unsupported systems such as Windows XP or Windows Server 2003.

Users might have initially been infected by clicking on a bogus link or attachment in the e-mail. Then the worm spreads to multiple machines over the intranet or Internet using a capability believed to have been developed by the United States National Security Agency - causing the attack to be unprecedented in scale by any ransomware

Advisory: WannaCry



Mon 15/5/2017 2:25 PM

Computer Centre

[Security Advisory] Widespread "WannaCry" Ransomware targeting unpatched Windows Systems

To  NUS Staff

Signed By computercentre@nus.edu.sg



Dear Colleagues,

As you know, there is a worldwide infection with a ransomware known as "WannaCry" aka "WanaCryptOr" discovered on 12th May 2017 that can infect any unpatched Windows device connected to the same network.

This ransomware can be blocked by a patch released by Microsoft in March 2017. Computer Centre deployed this patch within NUS in the same month as part our regular patch exercise. Since Friday, 12th May 2017, Computer Centre has taken additional measures to detect and block the intrusion and spread of this ransomware.

However, given the ease with which this ransomware infection can spread, it is very important that you double-check your desktop computer or laptop as soon as possible to confirm that your Windows software is up to date, using the following steps. If there are updates available, please install them.

For Windows 7 – Go to **Control Panel -> Windows Update -> Check for available updates**

For Windows 8 – Go to **Settings -> Change PC Settings -> Windows Update**

For Windows 10 – Go to **Settings -> Update & Security -> Windows Update**

Latest Global Ransomware - Petya

<https://krebsonsecurity.com/2017/06/petya-ransomware-outbreak-goes-global/>

27 'Petya' Ransomware Outbreak Goes Global

JUN 17

A new strain of ransomware dubbed “**Petya**” is worming its way around the world with alarming speed. The malware is spreading using a vulnerability in **Microsoft Windows** that the software giant patched in March 2017 — the same bug that was exploited by the recent and prolific **WannaCry** ransomware strain.

Oops, your important files are encrypted.

If you see this text, then your files are no longer accessible, because they have been encrypted. Perhaps you are busy looking for a way to recover your files, but don't waste your time. Nobody can recover your files without our decryption service.

We guarantee that you can recover all your files safely and easily. All you need to do is submit the payment and purchase the decryption key.

Please follow the instructions:

1. Send \$300 worth of Bitcoin to following address:

1Mz7153HMuxXTuR2R1t78MGSdzaAtNbBWx

2. Send your Bitcoin wallet ID and personal installation key to e-mail wowsmith123456@posteo.net. Your personal installation key:

74f296-2Nx1Gm-yHQRWr-S8gaN6-8Bs1td-U2DKui-ZZpKJE-kE6sSN-o8tizU-gUeUMa

If you already purchased your key, please enter it below.

Key: _

The ransom note that gets displayed on screens of Microsoft Windows computers infected with Petya.

Impact of Ransomware - Petya

<http://www.bbc.com/news/technology-40416611>



Global ransomware attack causes turmoil

The virus, the source of which is not yet known, freezes the user's computer until a ransom in untraceable Bitcoin is paid.

Ukrainian firms, including the state power company and Kiev's main airport, were among the first to report issues.

The Chernobyl nuclear power plant has also had to monitor radiation levels manually after its Windows-based sensors were shut down.

In a statement, the US National Security Council said government agencies were investigating the attack and that the US was "determined to hold those responsible accountable".

Petya Ransomware

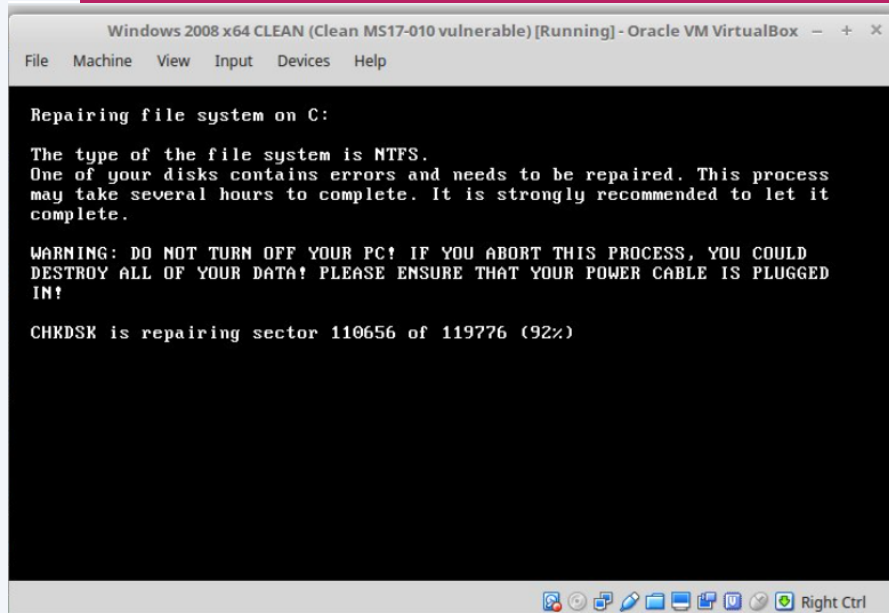
theguardian Wednesday 28 June 2017

What is the Petya ransomware attack, and how can it be stopped?

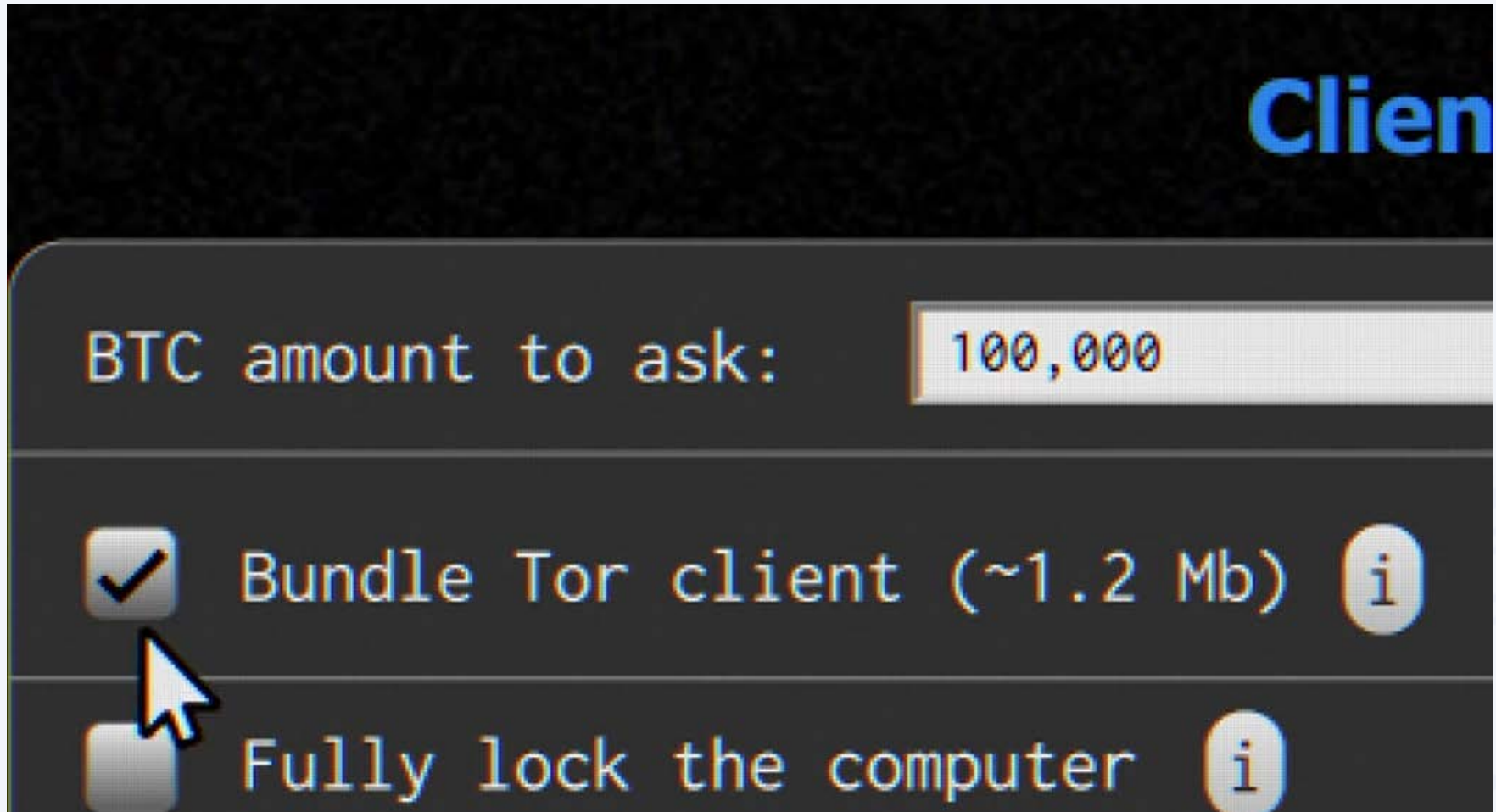
Companies have been crippled by an attack dubbed 'Petya', the second major ransomware crime in two months. **Olivia Solon** answers the key questions

The ransomware infects computers and then waits for about an hour before rebooting the machine. While the machine is rebooting, you can switch the computer off to prevent the files from being encrypted and try and rescue the files from the machine, as flagged by @HackerFantastic on Twitter.

If the system reboots with the ransom note, don't pay the ransom – the “customer service” email address has been shut down so there's no way to get the decryption key to unlock your files anyway. Disconnect your PC from the internet, reformat the hard drive and [reinstall your files from a backup](#). Back up your files regularly and keep your anti-virus software up to date.



Video: Ransomware



Source: https://www.youtube.com/watch?v=4gR562GW7TI&list=PLSJO6rbiqUDVe_I7QvGdrJnjOmaTqZfUR&index=20



**What should I
do if my
machine is
infected with
ransomware?**

What should I do if my machines are infected?



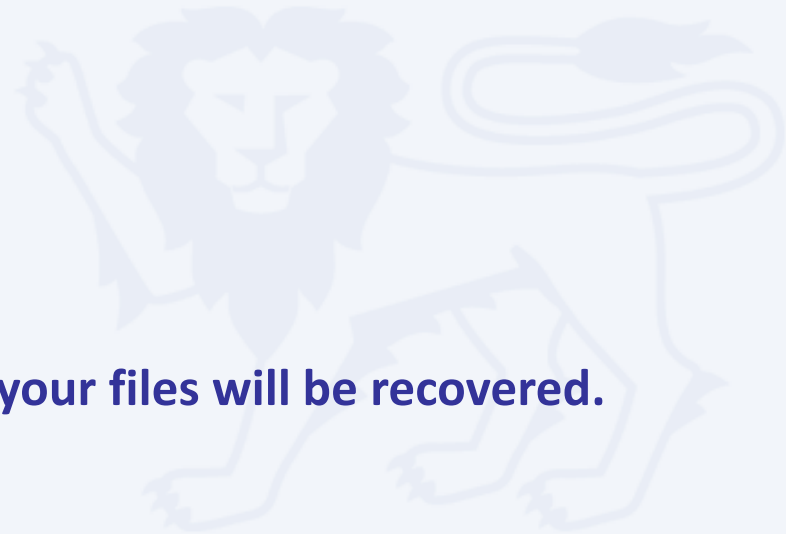
- 1 Disconnect the machines from network
- 2 Disconnect any storage devices from the machines
- 3 Report to your supervisor
- 4 Report to ITCARE





Should I pay the ransom?

Answer: No, there is no guarantee that your files will be recovered.



Ransomware File Decryptor

Reference:

<https://success.trendmicro.com/solution/1114221-downloading-and-using-the-trend-micro-ransomware-file-decryptor>
<https://id-ransomware.malwarehunterteam.com/>

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Downloading and Using the Trend Micro Ransomware File Decryptor

🕒 Updated: 29 Dec 2016 **Product/Version:** Antivirus+ Security 2016.All , **+** **Platform:** Windows 10 32-bit, **+**

SUMMARY

This guide provides the instructions and location for downloading and using the latest Trend Micro Ransomware File Decryptor tool to attempt to decrypt files encrypted by certain ransomware families.

As an important reminder, the best protection against ransomware is preventing it from ever reaching your system. While Trend Micro is constantly working to update our tools, ransomware writers are also constantly changing their methods and tactics, which can make previous versions of tools such as this one obsolete over time.

Customers are strongly encouraged to continue practicing safe security habits:

1. Make sure you have regular offline or cloud backups of your most important and critical data.
2. Ensure that you are always applying the latest critical updates and patches to your system OS and other key software (e.g. browsers).
3. Install the latest versions of and apply best practice configurations of security solutions such as Trend Micro to provide multi-layered security.

Ransomware File Decryptor



← → ↻ | nomoreransom.org/en/decryption-tools.html | ☆ | ≡ | 🔍 | 🔔 | ⋮

Winner
SC Awards
EDITOR'S CHOICE AWARD

NO MORE RANSOM!

★ English ▾

[Crypto Sheriff](#) [Ransomware: Q&A](#) [Prevention Advice](#) [Decryption Tools](#) [Report a Crime](#) [Partners](#) [About the Project](#)



DECRYPTION TOOLS

IMPORTANT! Before downloading and starting the solution, read the how-to guide. Make sure you remove the malware from your system first, otherwise it will repeatedly lock your system or encrypt files. Any reliable antivirus solution can do this for you.

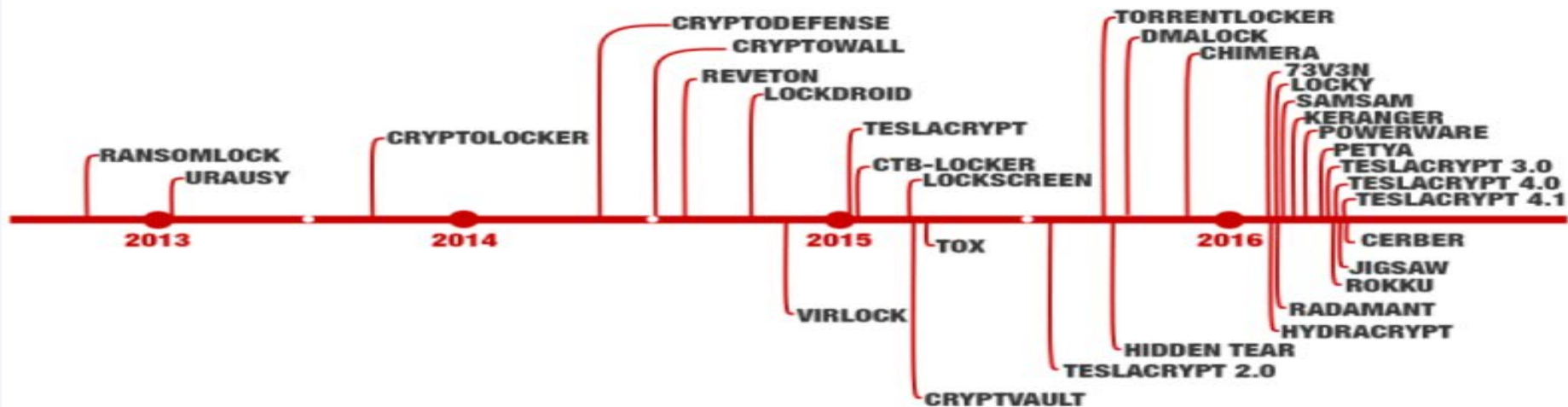
Source: <https://www.nomoreransom.org/en/decryption-tools.html>

Some Ransomware can Traverse across Network

Source: <https://www.csa.gov.sg/singcert/news/advisories-alerts/ransomware>

What is Ransomware?

Ransomware is a type of malware that holds a victim's files, computer system or mobile device ransom, restricting access until a ransom is paid. Operating systems that can be infected include Windows, Mac OS X and Linux. Some ransomware variants are also known to traverse across the network and encrypt all files stored in shared and/or network drives. The more prevalent type of ransomware today encrypts commonly-used files, such as user documents, images, audio, and video files. By encrypting these files with a strong encryption (2048-bit or more), these files are rendered irrecoverable unless a decryption key is obtained. The diagram below illustrates some of the ransomware variants identified by researchers in recent years.



A compromised computer is a hazard to everyone else, too – not just to you.



Source: UC Santa Cruz Information Technology Services@ Sep 2015



What is the latest trending malware?

Answer: Digital Currency Mining.



Digital Currency Mining

<https://www.coindesk.com/information/how-bitcoin-mining-works/>

<https://www.reuters.com/article/us-crypto-currencies-mining-analysis/computer-shops-embrace-lucrative-business-outfitting-cryptocurrency-miners-idUSKCN1G502L>



Bitcoins

Get reward in form of digital currency by being the first to complete a mathematical computation. A lot of computing power is required to do this.



Monero

Digital Currency Mining Malware

Slow browsing? Hackers could be mining bitcoin



If you feel your Internet connection has been slower in the past few months, ...you may be a victim of a new form of malware.

Cyber-security researchers have seen a spike in cryptocurrency mining malware this year, as well as a new trick called cryptojacking, where websites are infected with software that prompts visitors' computers to mine cryptocurrency when they visit the website.

How to block bitcoin mining websites



1. Go to **C:\Windows\System32\Drivers**
2. Edit the **hosts** file using notepad and enter the following values:

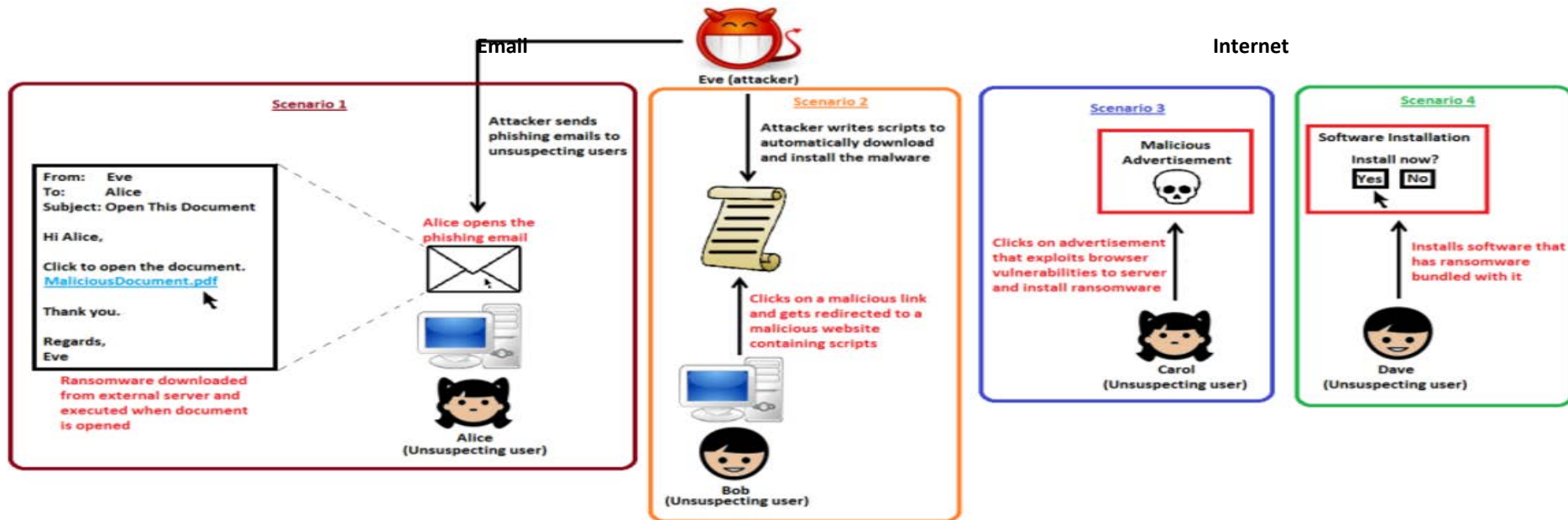
0.0.0.0 afminer.com
0.0.0.0 coin-have.com
0.0.0.0 coinerra.com
0.0.0.0 coinhive.com
0.0.0.0 coinnebula.com
0.0.0.0 crypto-loot.com
0.0.0.0 hashforcash.us
0.0.0.0 jescoin.com
0.0.0.0 ppoi.org



<https://www.csa.gov.sg/singcert/news/advisories-alerts/alert-on-browser-based-digital-currency-mining>

What are the Sources of Malware?

Source: <https://www.csa.gov.sg/singcert/news/advisories-alerts/ransomware>, <https://support.kaspersky.com/viruses>



“Removable drives, flash memory devices, and network folders are commonly used for data transfer. When you run a file from a **removable media** you can infect your computer and spread the virus to the drives of your machine.”

~ kaspersky

“**Software vulnerabilities** are most common targets of hacker attacks. Vulnerabilities, bugs and glitches of software grant hackers remote access to your computer, and, correspondingly, to your data, local network resources, and other sources of information” ~

kaspersky

...Beware of Infected USB

Public servants barred from using unauthorised USB drives

 CHANNEL NEWSASIA

14 Jul 2017 02:48PM

(Updated: 14 Jul 2017 04:54PM)



The move comes after Internet access was cut from the work computers of all 143,000 public officers earlier this year, in a bid to prevent cyberattacks. Officers are still able to surf the Internet, but only on mobile devices or computers that are not connected to the office network.

“USB storage devices continue to be a means to introduce malware and exfiltrate data, especially as they have the potential to be easily misplaced,” it said.

...Beware of Fake Apps

<https://www.csa.gov.sg/singcert/news/advisories-alerts/fake-mobile-apps>

With the global wide-spread infection of a ransomware known as “WannaCry” aka WanaCryptor, fake mobile apps in Google Play are emerging to promise protection from the ransomware. However, the “WannaCry” ransomware does not target phones. These fake mobile apps disguised as anti-virus apps actually contain malware. Appended below is a list of known free fake anti-virus apps obtained from RiskIQ/CNET.



App Title – Developer

- | | | |
|--|---|--|
| 360 Antivirus Clean Mobile – SmartAPP | Antivirus 2017 & Virus Removal (Virus Remover) – Pontus Studio | Power Antivirus – Virus Clean – PICOO Design |
| 360 Security – Antivirus Boost – 360 Mobile Security Limited | Antivirus Manual – Havana Apps | SecureBrain Antivirus (BETA) – SecureBrain |
| Ace Security-Antivirus Aplock – Super Security Tech | Antivirus for Android 2016 – AproGar LABS | SecureIT Antivirus & Security – SecurityCoverage, Inc. |
| Android Antivirus 2016 – HappyAPP11 Studio | best Antivirus apps on android - ArtusTech | Security Antivirus 2016 – Funny for Apps |
| Antivirus – Master VPN | Cleaner Master Antivirus Pro – RED ANDRO SOLUTIONS | Security Antivirus 2016 – Joker Mush Gero |
| Antivirus & Mobile Security – Topi Maxi Group | CoolAntivirus Antivirus – SOR ENTERTAINMENT, S.L. | Security Antivirus 2016 – Zebeena |
| Antivirus Clean – AVC Security Joint Stock Company | CM Security Antivirus Theme – ANDROID THEME | Security Suite: Free Antivirus – Mobile Cloud Labs Plc. |
| Antivirus - Mobile Security – JRMedia | Defenx Antivirus - Suite – “Defenx SA” | Smadav Antivirus 2017 – smailapps |
| Antivirus Security Protection – Fyzverous Studio | eScan – Tablet Antivirus – MicroWorld | Scan – Tablet Antivirus – MicroWorld |
| Antivirus Complete Security – Appswale | Free Antivirus Pro 2015 – NCN-NetConsulting Ges.m.b.H. | Super Antivirus Cleaner 2017 – NightCorp |
| Antivirus – Virus Cleaner – Mars Std | Free Antivirus 2016+ Ram Boost – H2 FreeAntivirus 2016+RAM Boost & Aplock | syncNscan – Security/Antivirus – syncNscan Mobile Security |
| Antivirus Cleaner And Booster – Praecofac | Free Antivirus 2016 – FreeAntivirusTeam | Total Antivirus Defender FREE – Security Defend |
| Antivirus for Android – Antivirus Free for Android | Free Antivirus 2015 For Mobile – FreeAntivirus 2015 For Mobile & Tablet | Test your Antivirus – Guillermo Hernández Cabrera |
| Antivirus – Mobile Security – Playnos Yalp | F-Secure Antivirus Test – F-Secure Corporation | VIRUSfighter Antivirus FREE – SPAMfighter apps |
| Antivirus for Android – Android Antivirus | GO Speed (Cleaner & Antivirus) – FREEAPPSU | Webroot Security & Antivirus – Webroot Inc. |
| Antivirus – Security & Aplock – Acrid Jute | Mobile Antivirus Security – Blue Application | XRIME Mobile Antivirus – XRIME Mobile |
| Antivirus Pro – virus removal – GuardforPrivacy | Mobile Antivirus & Security – Kiem tien de nhu choi | Zoner Antivirus Test – ZONER, Inc |
| Antivirus & Mobile Security – PetuApp | MP Security Antivirus App Lock – MPSecurityLabs | Zoner Antivirus – Tablet – ZONER, Inc. |
| Antivirus Complete Protection – sagamore | Netlux Mobile Antivirus – Netlux Systems Private Limited | Zoner Antivirus – ZONER, Inc. |
| Antivirus Discount Deals – MigenBlog Free Apps | NQ Mobile Security & Antivirus – NQ Mobile Security (NYSE:NQ) | ZenMate Antivirus Security – ZenGuard GmbH |

...Beware of Vulnerable Apps

<http://thehackernews.com/2017/09/ccleaner-hacked-malware.html>

Warning: CCleaner Hacked to Distribute Malware; Over 2.3 Million Users Infected



CCleaner Malware!

...is a popular application with over 2 billion downloads, created by Piriform and recently acquired by Avast, that allows users to clean up their system to optimize and enhance performance

Avast and Piriform have both confirmed that the Windows 32-bit version of CCleaner v5.33.6162 and CCleaner Cloud v1.07.3191 were affected by the malware.

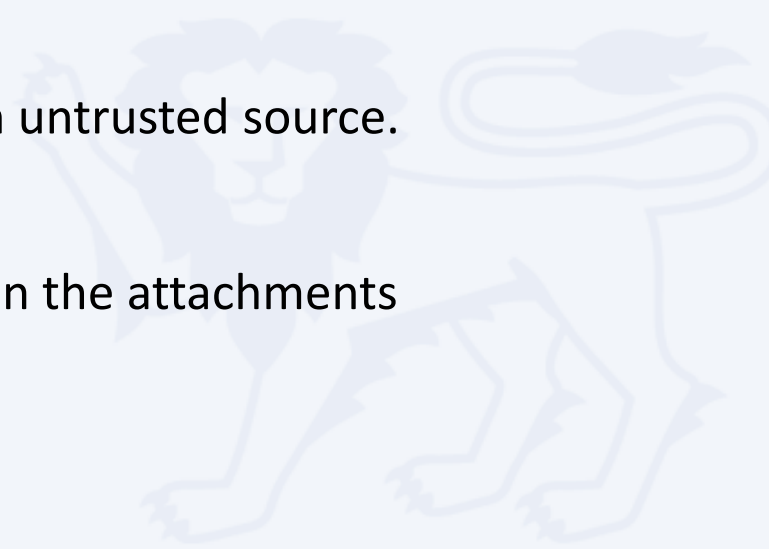
Affected users are strongly recommended to update their CCleaner software to version 5.34 or higher, in order to protect their computers from being compromised

Best Practices



What are the protection measures?

- 1 Perform data backup regularly.
- 2 Keep your machines up to date with anti-virus software.
- 3 Keep your Operating System and Software updated.
- 4 Do not download the software from untrusted source.
- 5 Report suspicious email. Do not open the attachments or visit the websites.





University Virus Scanner

TREND MICRO | OfficeScan ? _ X

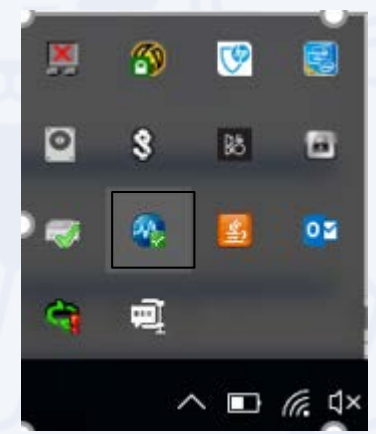
Protection Enabled
You are protected and your software is up to date

Virus / Malware	0
Since 2/22/2017 (Wed) 17:53	
Spyware / Grayware	0
Since 2/22/2017 (Wed) 17:53	
Scheduled Scan	Enabled
Weekly on Wed at 12:00	
Smart Scan Agent Pattern	13.265.00
Last update: 3/10/2017 (Fri) 9:22	

Scan (magnifying glass icon)

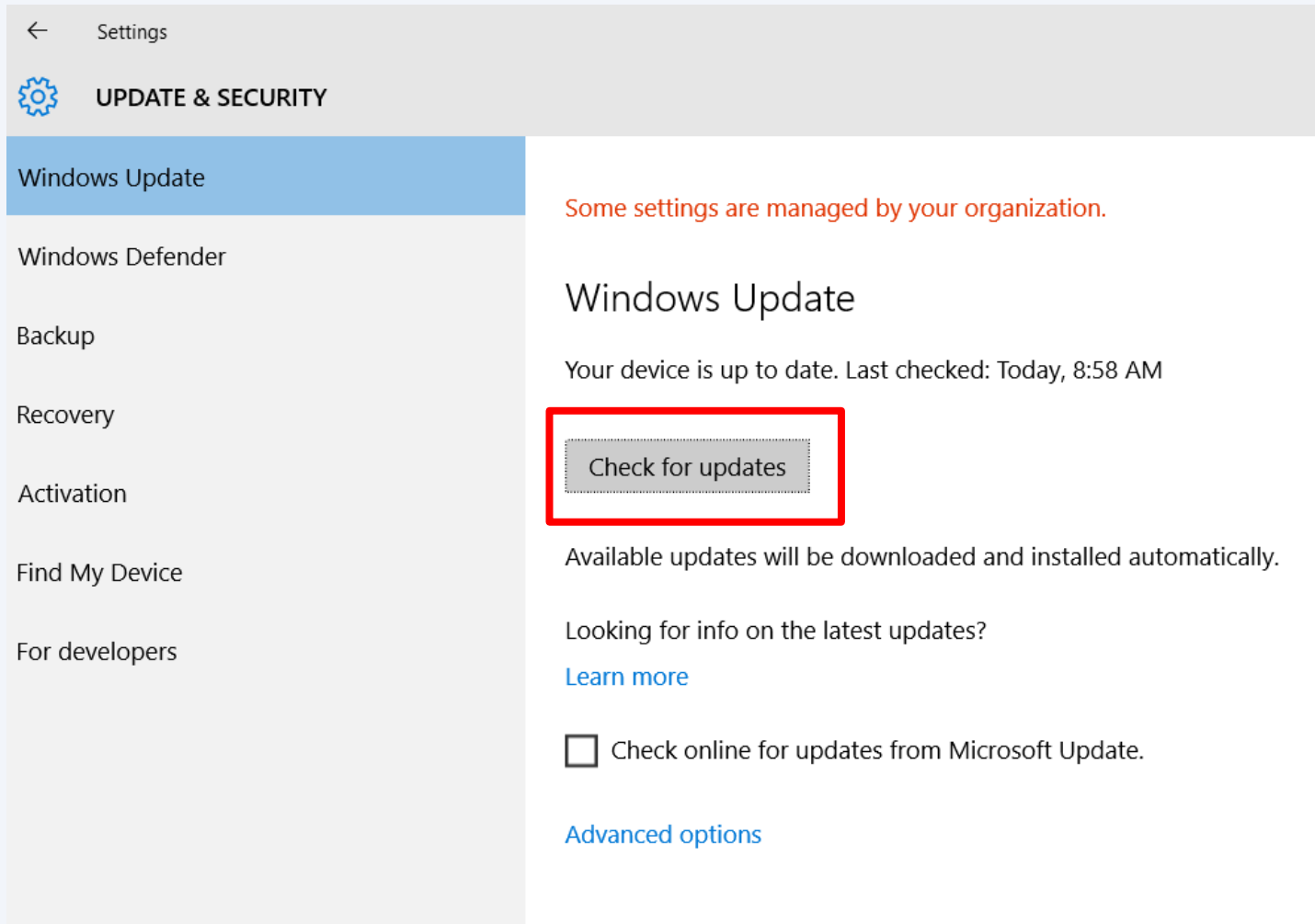
Update (upward arrow icon) - *Highlighted with a red box*

Bottom icons: Lock, Bar chart, Gear, Virus scanner icon




Window OS Updates

Settings\ Update and Security



The screenshot shows the Windows Settings application, specifically the 'UPDATE & SECURITY' section. The left-hand navigation pane lists various settings categories: Windows Update (highlighted in blue), Windows Defender, Backup, Recovery, Activation, Find My Device, and For developers. The main content area on the right is titled 'Windows Update' and displays the message 'Your device is up to date. Last checked: Today, 8:58 AM'. A red rectangular box highlights the 'Check for updates' button, which is a grey button with a dotted border. Below this, there is a message: 'Available updates will be downloaded and installed automatically.' followed by a link 'Learn more'. At the bottom, there is an unchecked checkbox labeled 'Check online for updates from Microsoft Update.' and another link 'Advanced options'.

← Settings

 **UPDATE & SECURITY**

Windows Update

Windows Defender

Backup

Recovery

Activation

Find My Device

For developers

Some settings are managed by your organization.

Windows Update

Your device is up to date. Last checked: Today, 8:58 AM

Check for updates

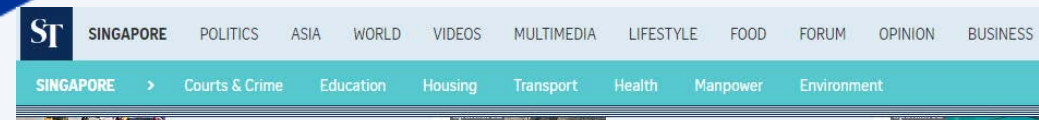
Available updates will be downloaded and installed automatically.

Looking for info on the latest updates?
[Learn more](#)

Check online for updates from Microsoft Update.

[Advanced options](#)

Confidentiality



Singapore privacy watchdog fines and warns 11 organisations for data breaches



PDPC noted in a press release today (April 21) that 90,000 members' personal data were sent in an unencrypted email between K Box and its IT vendor, Finantech

The personal data of over 300,000 customers were exposed, with the firm possibly facing sanctions for lax security. Their names, addresses and mobile phone and identity card numbers were posted on several websites

Investigations by PDPC found that someone had extracted customers' information from K Box's computers and uploaded the data on file sharing website pastebin.com because the karaoke chain's security measures were lax. For instance, it did not update its computer software with the latest version, and computer account holders had weak passwords comprising only one letter in the alphabet.

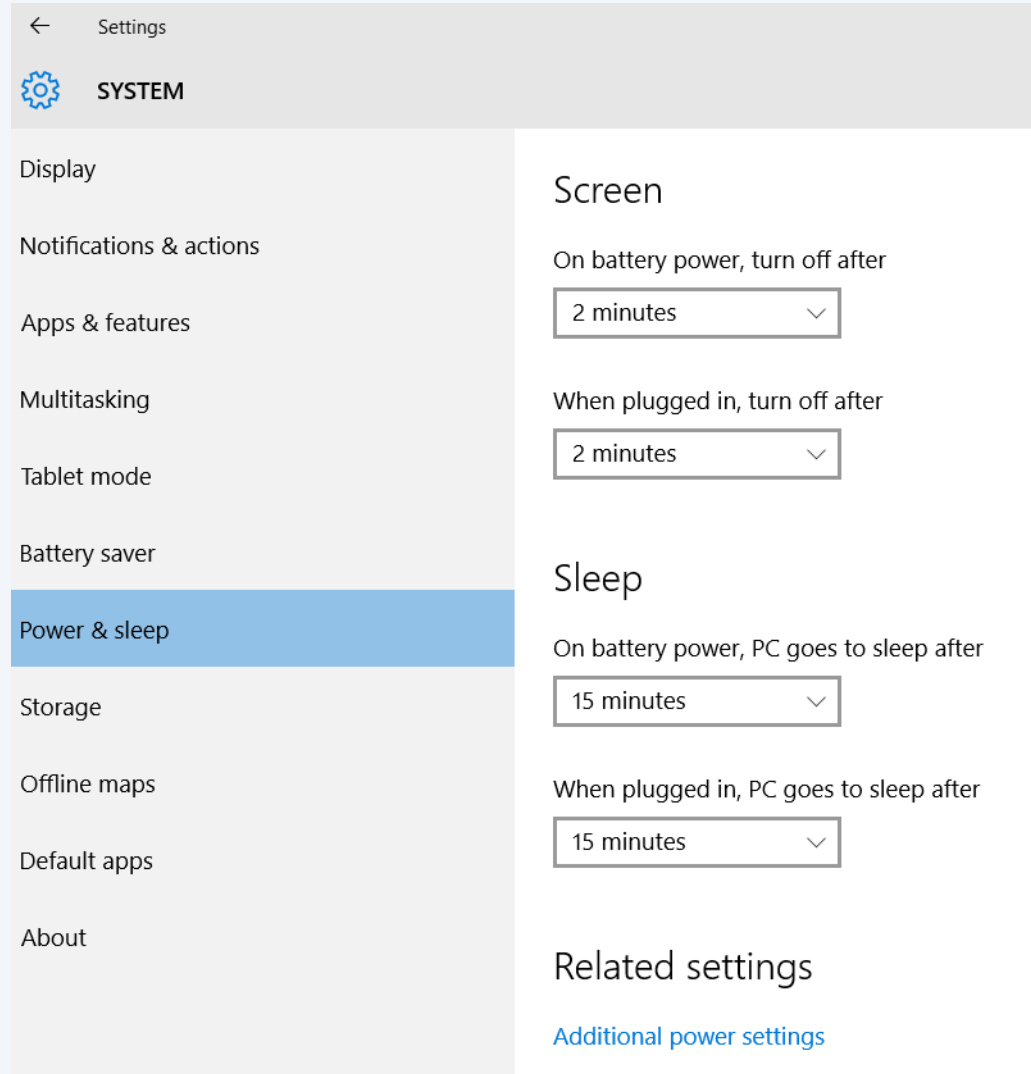


K Box was fined \$50,000 for not putting in place sufficient security measures to protect the pe
PHOTO: ST FILE

Source: Straits Times, Asia One @ Apr 2016


Window Screen Lock

Settings\ Personalization\ Lock Screen



The screenshot shows the Windows Settings application. The left sidebar is open to 'SYSTEM' settings, with 'Power & sleep' selected. The main pane shows 'Screen' settings. Under 'Screen', there are two sections: 'Screen' and 'Sleep'. Each section has two settings: 'On battery power, turn off after' and 'When plugged in, turn off after'. The 'Screen' section has both settings set to '2 minutes'. The 'Sleep' section has both settings set to '15 minutes'. At the bottom, there is a 'Related settings' section with a link to 'Additional power settings'.

← Settings

 SYSTEM

Display

Notifications & actions

Apps & features

Multitasking

Tablet mode

Battery saver

Power & sleep

Storage

Offline maps

Default apps

About

Screen

On battery power, turn off after

2 minutes

When plugged in, turn off after

2 minutes

Sleep

On battery power, PC goes to sleep after

15 minutes

When plugged in, PC goes to sleep after

15 minutes

Related settings

[Additional power settings](#)

Forgot to lock your screen? ...Beware of key Logger

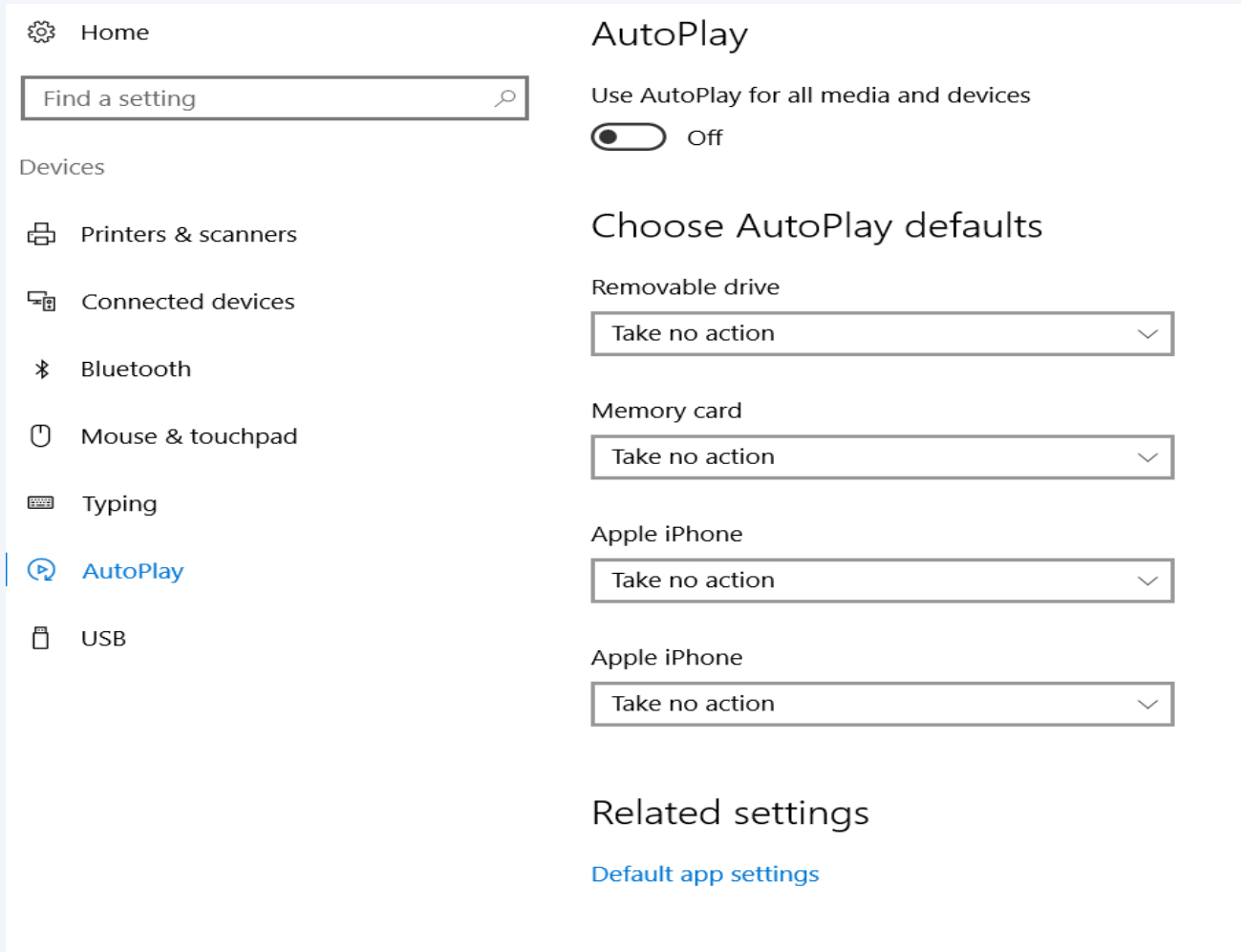
<http://www.channelnewsasia.com/news/singapore/smu-law-student-jailed-2/2519788.html>

SMU law student jailed 2 months for accessing professors' accounts

By Vanessa Paige Chelvan Posted 16 Feb 2016 17:40 Updated 16 Feb 2016 18:37



Prevent USB from being auto run on your laptop

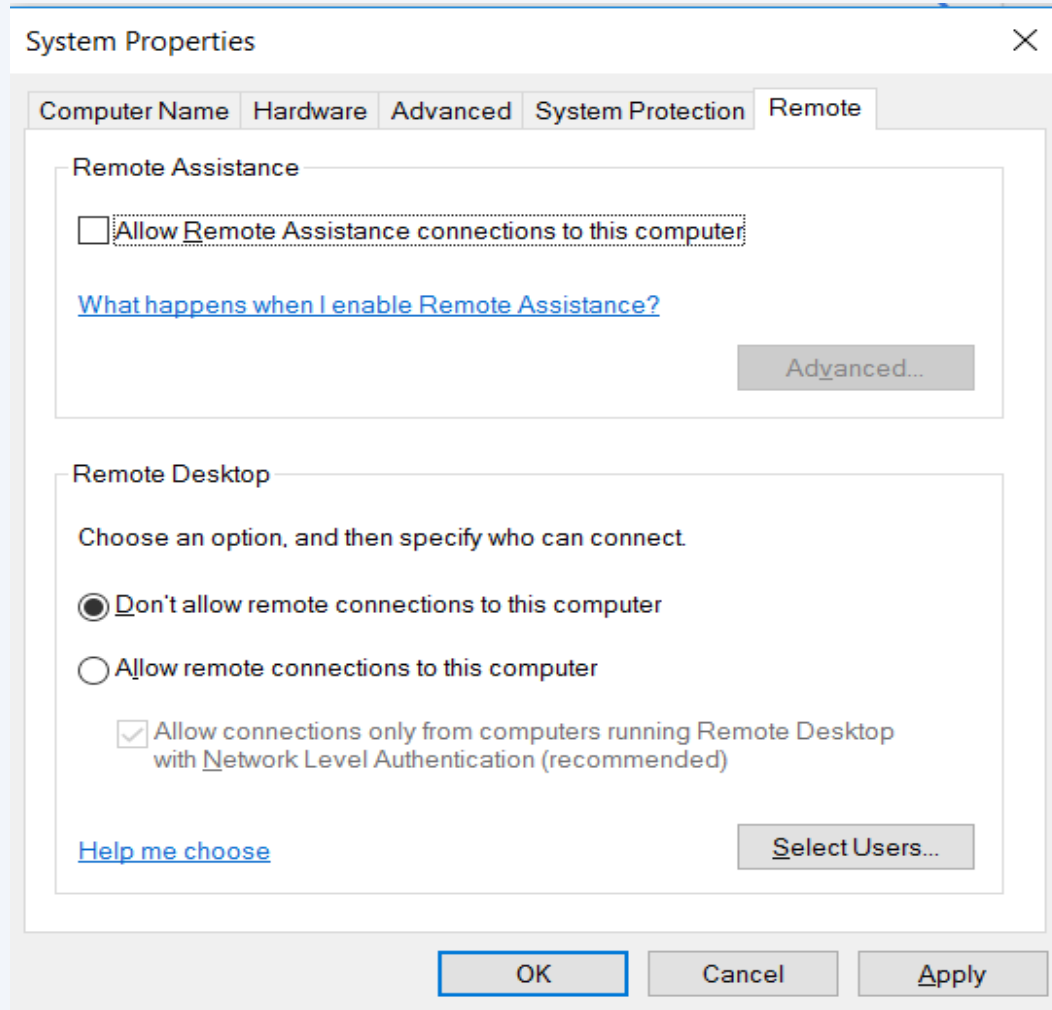


The screenshot shows the Windows Settings application with the 'AutoPlay' settings page open. On the left, a navigation pane lists various settings categories, with 'AutoPlay' selected and highlighted in blue. The main content area is titled 'AutoPlay' and contains the following elements:

- A search bar labeled 'Find a setting' with a magnifying glass icon.
- A section titled 'Devices' with a list of categories: Printers & scanners, Connected devices, Bluetooth, Mouse & touchpad, Typing, **AutoPlay**, and USB.
- The 'AutoPlay' settings section, which includes:
 - A toggle switch for 'Use AutoPlay for all media and devices', currently set to 'Off'.
 - A section titled 'Choose AutoPlay defaults' with three dropdown menus:
 - 'Removable drive' set to 'Take no action'.
 - 'Memory card' set to 'Take no action'.
 - 'Apple iPhone' set to 'Take no action'.
 - A second 'Apple iPhone' dropdown menu, also set to 'Take no action'.
- A 'Related settings' section with a link to 'Default app settings'.

Turn off Remote Desktop Connection to your PC

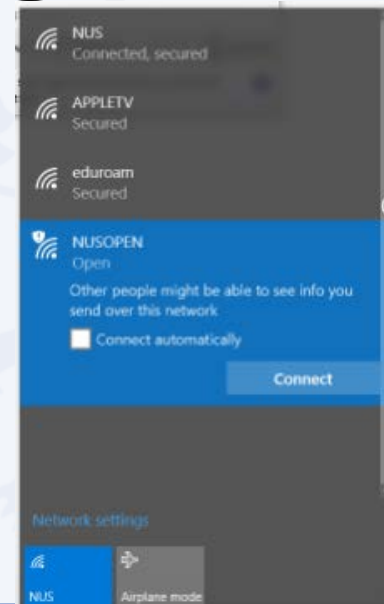
SystemPropertiesRemote.exe



Note: This state disallows remote access to your computer.

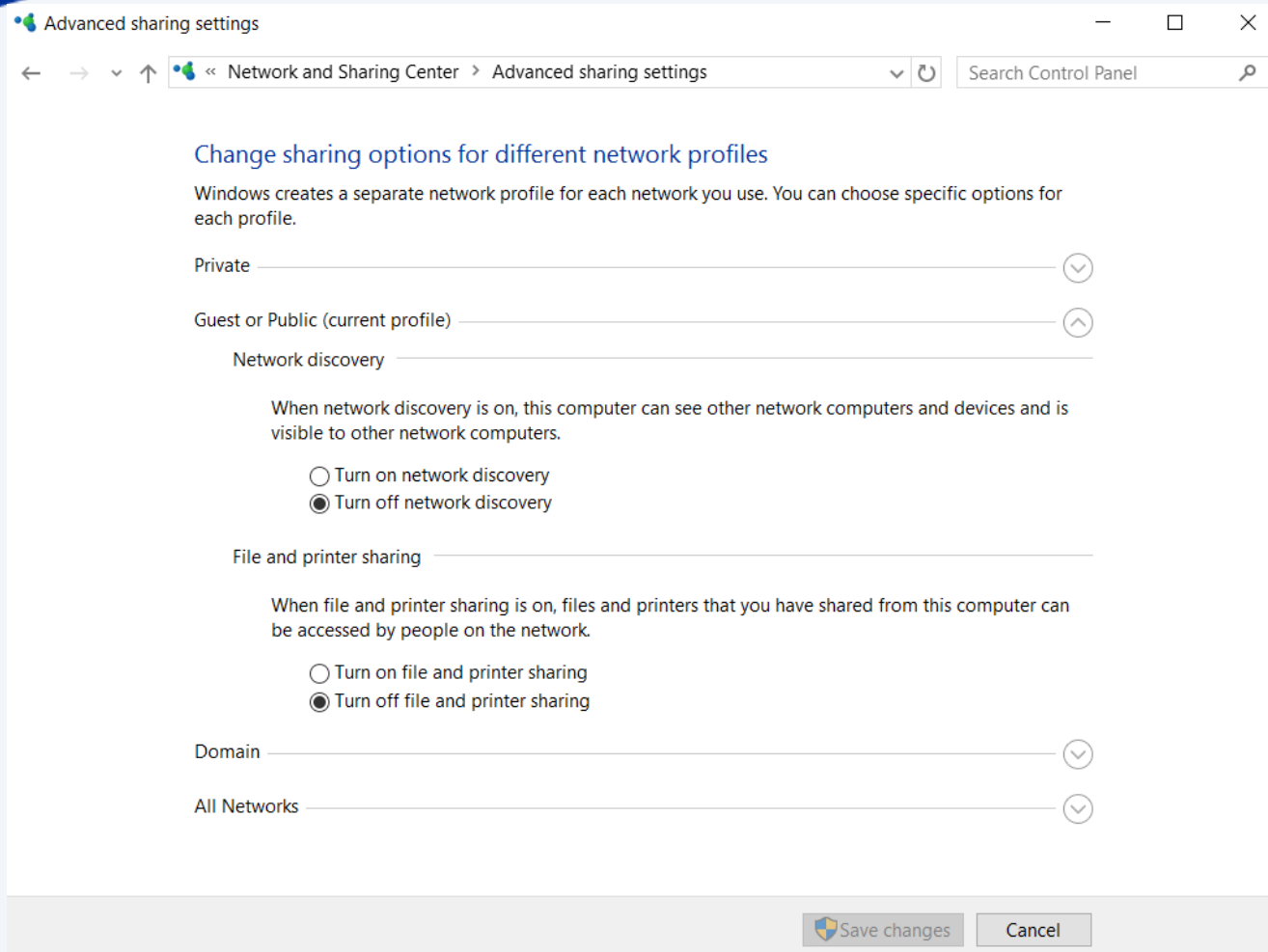


Which University WiFi should I use?



Answer: NUS

Turn off Network Discovery



Advanced sharing settings

Network and Sharing Center > Advanced sharing settings

Change sharing options for different network profiles

Windows creates a separate network profile for each network you use. You can choose specific options for each profile.

Private

Guest or Public (current profile)

Network discovery

When network discovery is on, this computer can see other network computers and devices and is visible to other network computers.

- Turn on network discovery
- Turn off network discovery

File and printer sharing

When file and printer sharing is on, files and printers that you have shared from this computer can be accessed by people on the network.

- Turn on file and printer sharing
- Turn off file and printer sharing

Domain

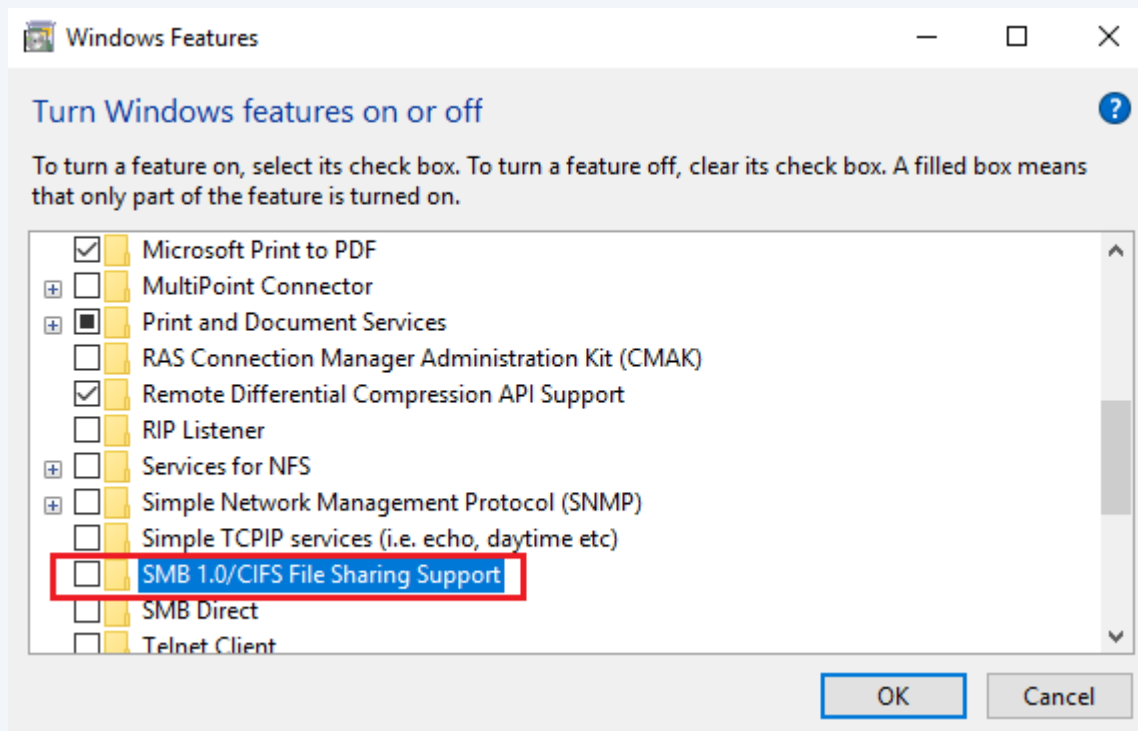
All Networks

Save changes Cancel

Note: This state disallows your computer to see other network computers and devices and disallows people on other network computers to see your computer.

Disable File Sharing (SMB v1)

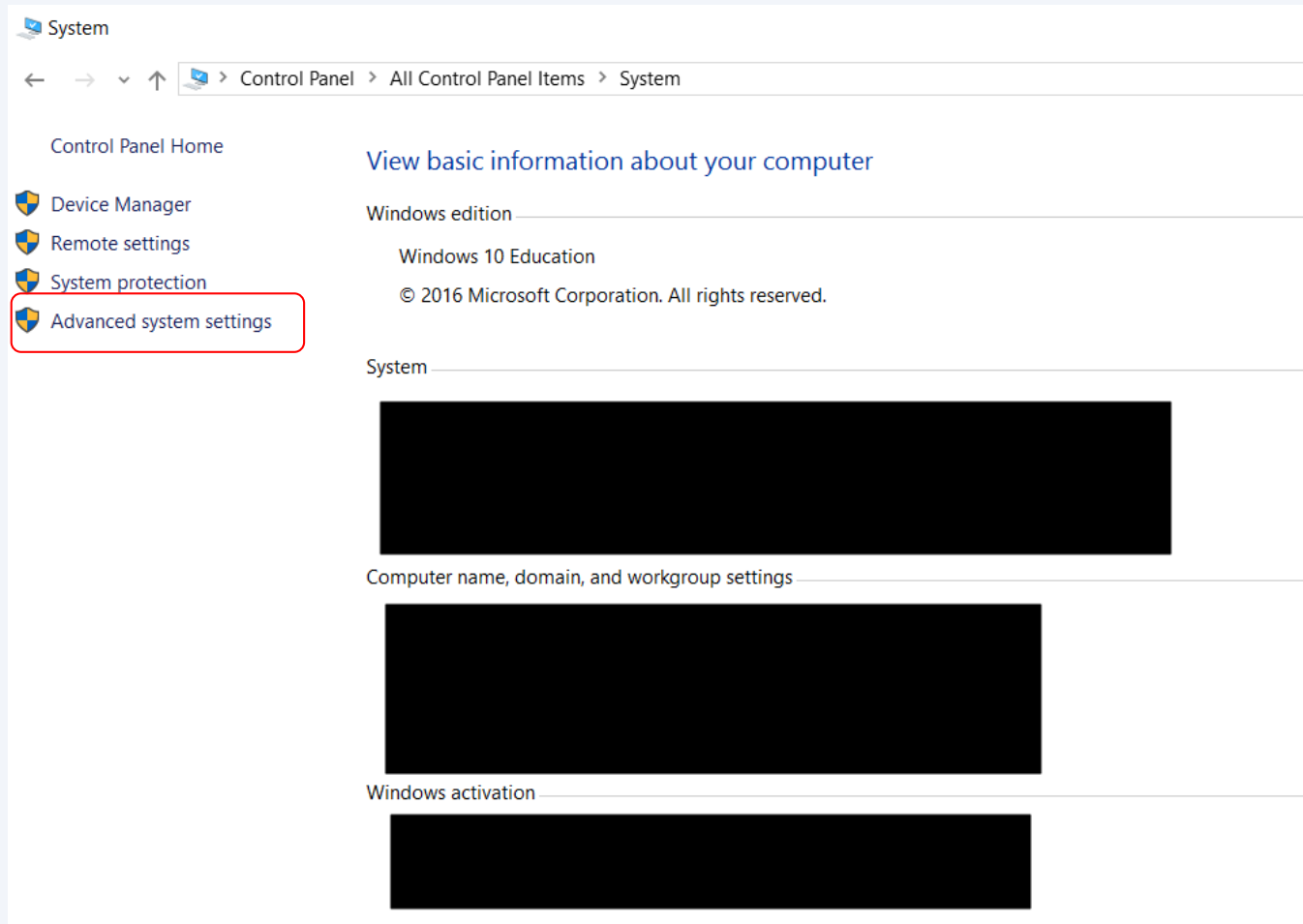
Open Control Panel > Programs & Features > **Turn Windows features on or off.** **Make sure it is unchecked.** Restart your computer.



Note: This is an obsolete components for shared access to files and printers and should be disabled.

Enable Data Execution Prevention (1/3)

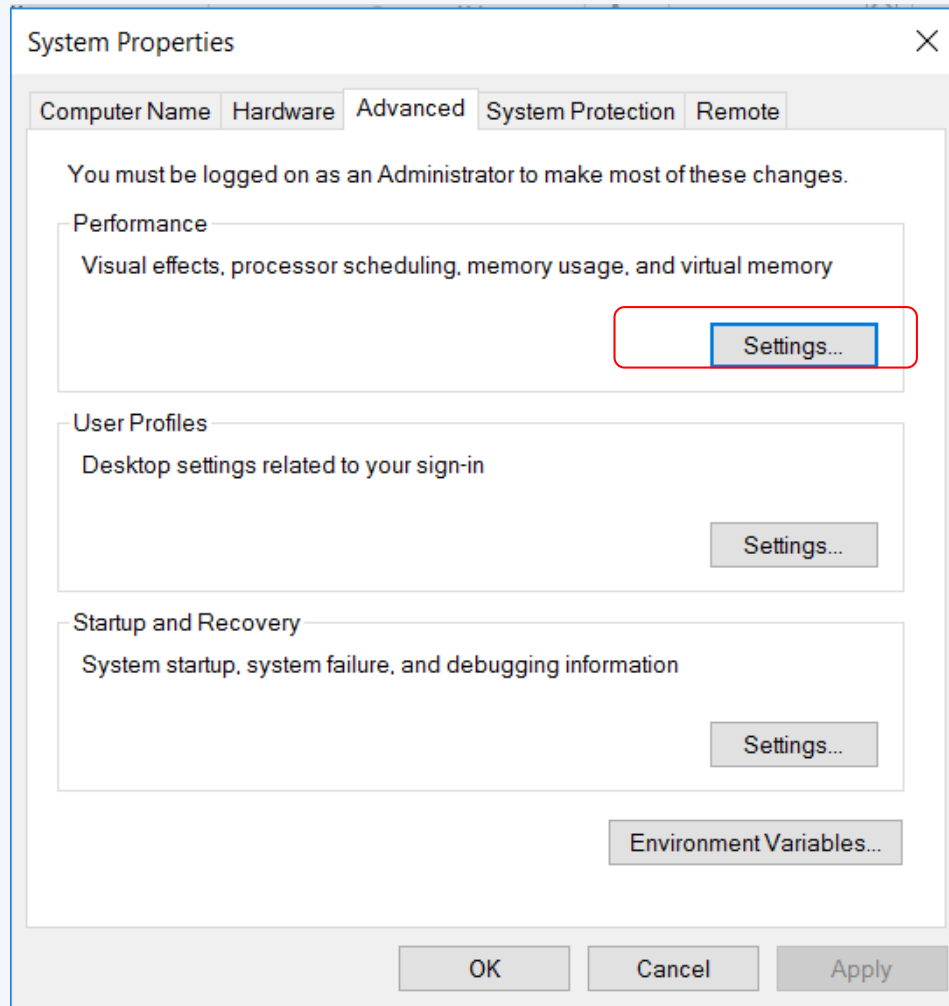
Open Control Panel > System > **Advance System Settings**



Note: This ensures program are not run on unauthorized memory area

Enable Data Execution Prevention (2/3)

Open System Properties > Advance > Performance > **Settings**

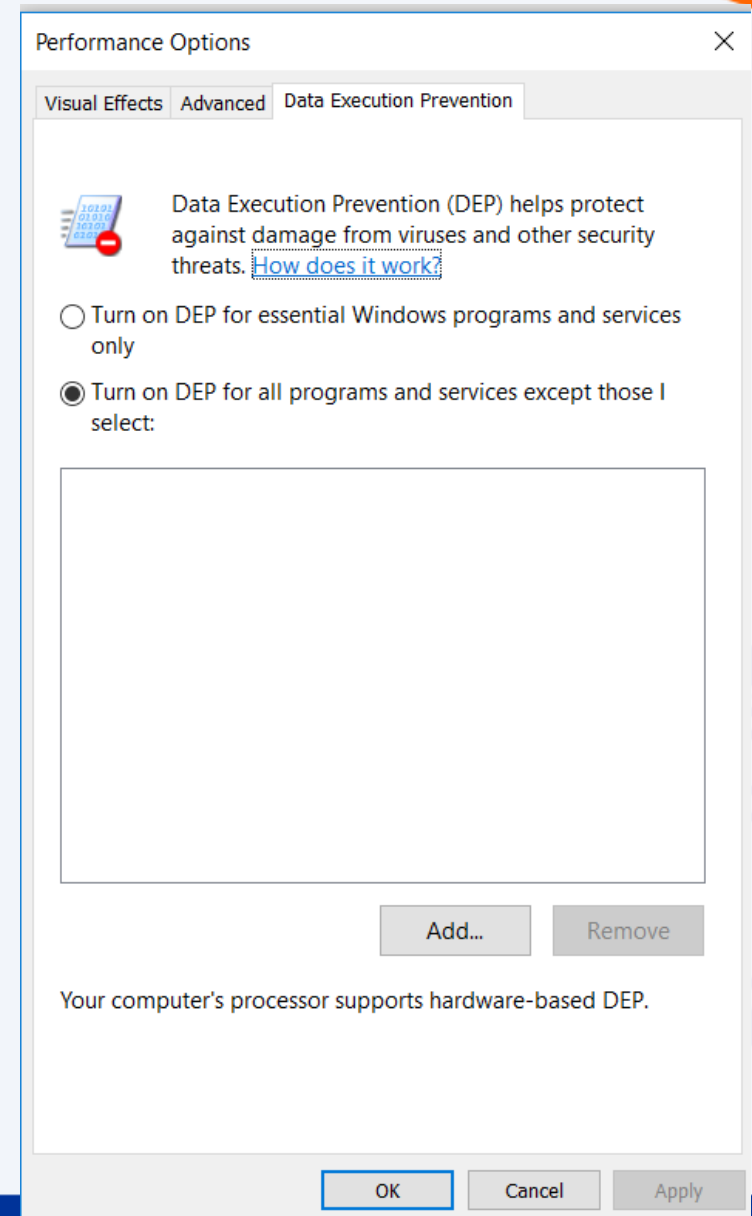


Note: This ensures program are not run on unauthorized memory area

Enable Data Execution Prevention (3/3)

Open Performance Options > **Data Execution Prevention**

Select the option, “Turn on DEP for all programs and services except those I select” . Leave the selection list empty and click on OK.



Edge Browser Settings

<https://privacy.microsoft.com/en-gb/windows-10-microsoft-edge-and-privacy>

SN	Settings	Values
1	Password and Form Data	Do not remember passwords and form data
2	Cookies	Don't allow third party cookies
3	Pop up blockers	Block pop up (that often comes from advertisement)

1 Privacy and services
 Some features might save data on your device or send it to Microsoft to improve your browsing experience.
[Learn more](#)

Offer to save passwords
 Off
[Manage my saved passwords](#)

Save form entries
 Off

2 Cookies

3 Advanced settings

Block pop-ups
 On

Read Advisories



1

<https://nusit.nus.edu.sg/its/>

2

<http://www.straitstimes.com/tags/cyber-security>

3

<https://www.csa.gov.sg/singcert/news/advisories-alerts>

4

<https://www.scamalert.sg/>



Q&A

Thank you! Every question you asked contributes to the FAQ list that we are building for NUS community.





**How do I know
if my mobile
phone is
infected?**



<https://www.csa.gov.sg/singcert/news/advisories-alerts/fake-mobile-apps>

Impact

The malware author can obtain sensitive information such as passwords and personal details from affected phones. Users may risk paying for a fake subscription to ensure the security of their mobile devices. Users with an infected phone will observe the following symptoms:

- Annoying ads pop up when data connection is available
- Sluggish phone performance
- Automatic downloading and installation of apps
- Existing apps function differently from usual
- Fake notifications or warnings on the mobile device
- Decrease in phone storage capacity

Prevention

- Do not download or install apps from non-official app stores
- Use a reputable anti-virus/anti-malware scanner to scan apps before installing
- Do not click on suspicious links, web pages or advertisements