Sun City Computer Club

Cyber Security SIG

February 18, 2021

Questions, Comments, Suggestions welcomed at any time

Even Now



- Audio recording of this session as MP4 file
- Audio recording available at link shown above

Audio Recording In Progress

SIG attendees are required to be members of the chartered club sponsoring that SIG.
Sun City Community Association By-law



Who knew?

- Georgetown UtilityAccount detail water and electric
- https://guard.georgetown.org/index.php

Read Date \$	Gal ♦	Cost +	Meter Number 💠	Avg °F	Max °F ♦	Min °F ♦
Mon Feb 01, 2021	70.0	\$0.17	9540905	49	57	43
Tue Feb 02, 2021	40.0	\$0.10	9540905	49	59	39
Wed Feb 03, 2021	50.0	\$0.12	9540905	55	66	45
Thu Feb 04, 2021	70.0	\$0.17	9540905	68	79	59
Fri Feb 05, 2021	60.0	\$0.14	9540905	52	59	45
Sat Feb 06, 2021	80.0	\$0.19	9540905	52	66	41
Sun Feb 07, 2021	60.0	\$0.14	9540905	49	59	39
Mon Feb 08, 2021	40.0	\$0.10	9540905	57	66	48
Tue Feb 09, 2021	90.0	\$0.22	9540905	61	66	57
Wed Feb 10, 2021	70.0	\$0.17	9540905	55	59	46
Thu Feb 11, 2021	40.0	\$0.10	9540905	41	45	34
Fri Feb 12, 2021	70.0	\$0.17	9540905	34	37	27
Sat Feb 13, 2021	60.0	\$0.14	9540905	28	30	19
Sun Feb 14, 2021	80.0	\$0.19	9540905	28	30	18
Mon Feb 15, 2021	60.0	\$0.14	9540905	10	14	5



- Laptop with charged battery
- USB cable cell phone cellular data
- Use for power outage
- Use for Suddenlink outage
- Use for enhanced security

Cellular Tether



- BigSur sudo
 Release version 1.9.5p2

 Beta version 1.8.31
- Google & Chrome sync
- Microsoft & Chrome as malware
- Zoom updates PER USER
- iOS "Safe Browsing" through Apple
- Super Micro China
- SIM-Swapping
- Increased WEB Shell usage
- Apple M1 malware target

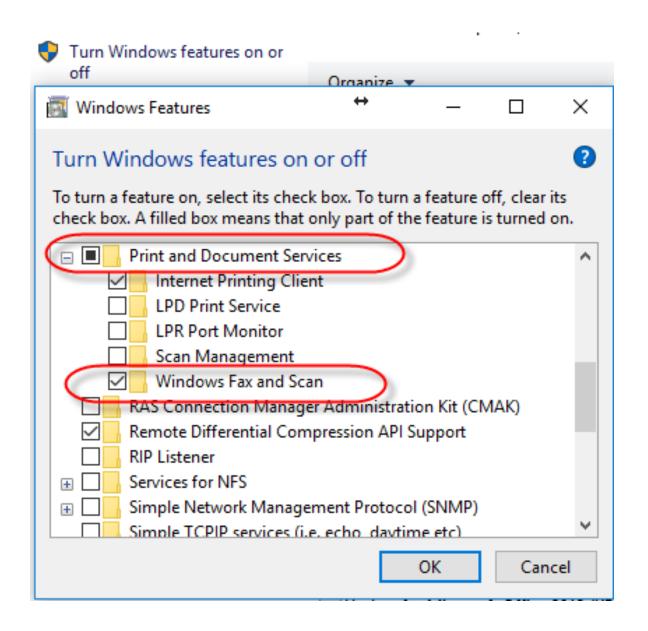
Current Issues



- eMail tracker pixels
- Medical devices iPhone 12 MagSafe
- Adobe PDF tools Acrobat & Reader
- Microsoft patch Tuesday low number, high criticality fax IPv4 source routing CVSS 9.8 IPv6 packet reassembly CVSS 9.8
- Android SHAREit transfer and share app
- Zoom updates are per user
- Copyrighted music to avoid live streaming

Current Issues





- Oldsmar, Florida
- Sodium Hydroxide lye
- 11,000% above "normal"
- RDP
- Remoteutilities.com
- Supervisory Control and Data Acquisition
- Windows 7
- Shared passphrase, no MFA, no firewall,
- Why/how did we learn? How many others?
- COMB?
- If so ...

SCADA



- Florida county sheriff
- Intruder or insider (disgruntled)
- 54,000 district drinking water systems US
- Virtually ALL rely on remote access
- Virtually all are non segmented
- America's Water Infrastructure Act 2018
 more than 3300 develop or update risk
 assessments and emergency response plans
- Island hopping or add to bot net
- TeamViewer bad, but not worst no protection

SCADA



- Who checks risk assessments?
- Who checks response plans?
- Paper only??
- This time alter treatment
- Next time alter water quality safety
- Social media "boil notice"
- Social Media "poison notice"

SCADA



- WEB Shells 77,000 -> 140,000
 planted on web servers
 Planted in vulnerability "window"
 Hidden in *plain* sight/site
- WordPress
- COMB



Current Issues





Private Shared Document

VIEW DOCUMENT

Document Protected for your safety

Linked in

Connect to Opportunity

LinkedIn new feature? Not





Welcome Back

Don't miss your next opportunity. Sign in to stay updated on your professional world.



Forgot password?

New to Linkedin? Join now.

- Notify any/everyone you receive from
- Consider changing passcode add MFA
- COMB

LinkedIn



Wells Fargo will NEVER call or text you for this code. DON'T share it. Enter Advanced Access code 205818 online to verify your identity.

Current Issues



- Compilation
- Clear text passwords/passphrases
- 200 million Gmail 450 million yahoo
- Fast lookup, FASTER credential stuffing
- Long unused accounts taken over
- If taken over ...
- CHANGE passphrases
- ADD MFA
- KEEP inventory

COMB



- Smart Phones
- DO NOT click Open links
- Maby STOP
- Maby not
- Forward "SPAM" 7726

Hey Jason! Your 1800Flowers order has been shipped. Once it's delivered, we'll send you a delivery confirmation message. To opt out, text STOP http://bit.ly/2tw54

https://consumercomplaints.fcc.gov/hc/en-us

SPAM Text, Voice Mail?



- Multiple email providers/addresses
- Name at dot domain
- Donald[at]Disney[.]com
- Privacy policy
- "get notices?"
- Breach subject?
- Australia

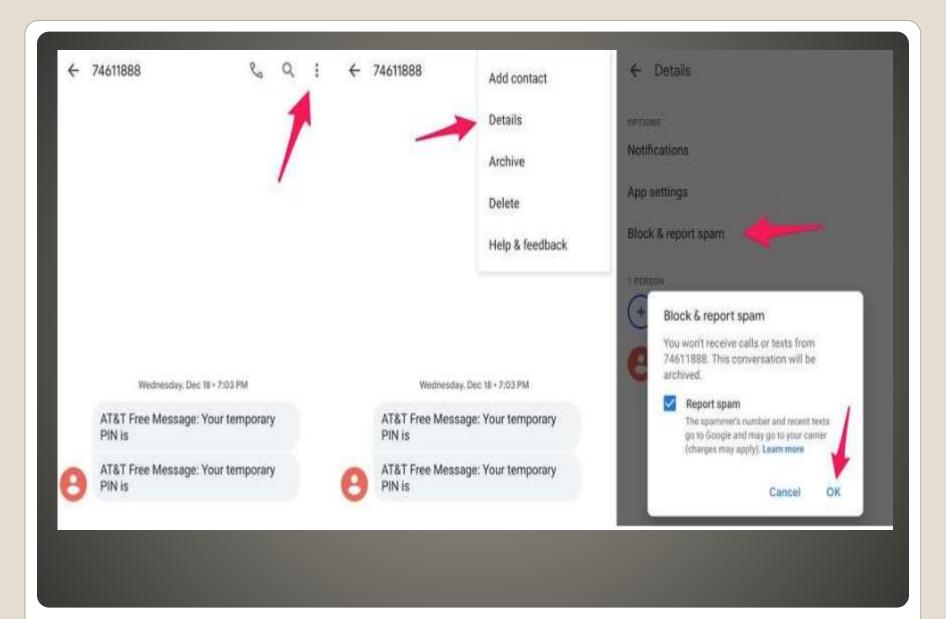
SPAM avoidance



- Land Line Caller ID
- SHAKEN/STIR
- Secure Handling of Asserted information using tokens
- Secure Telephone Identity Revisited
- Traced Act
- Telephone Robocall Abuse Criminal Enforcement and Deterrence

Robocalls







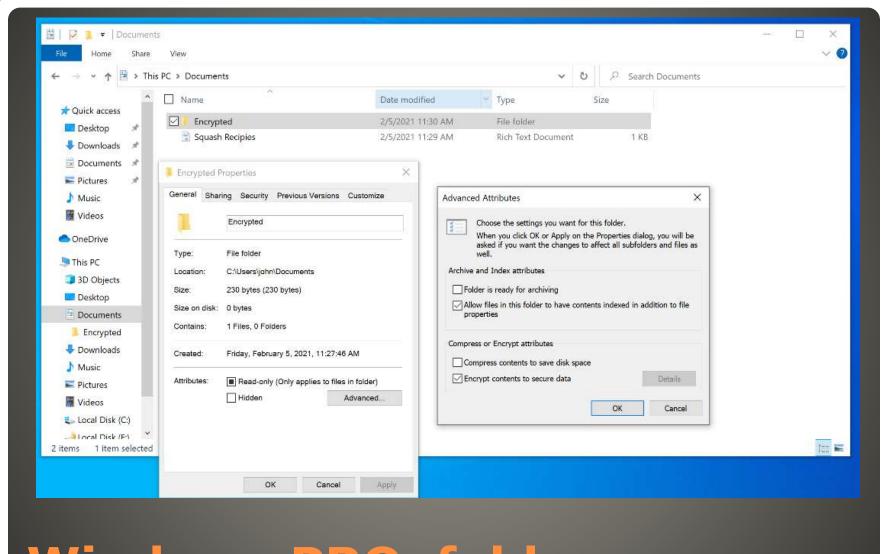
DOUBLE EDGED SWORD

Cloud

Digital Will

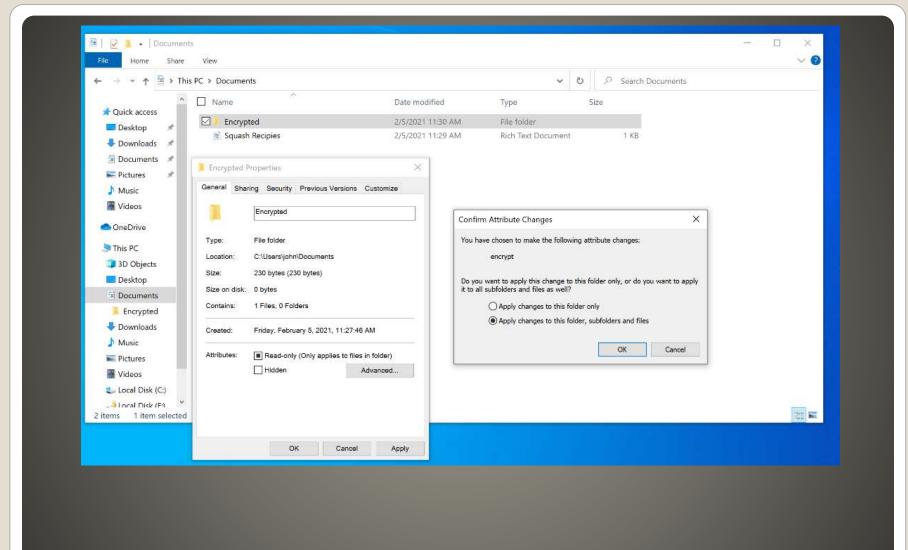
Encryption for Protection





Windows PRO folder



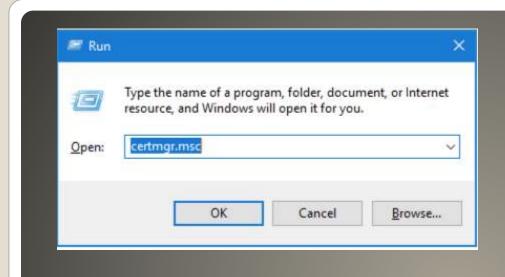


Windows PRO folder Apply



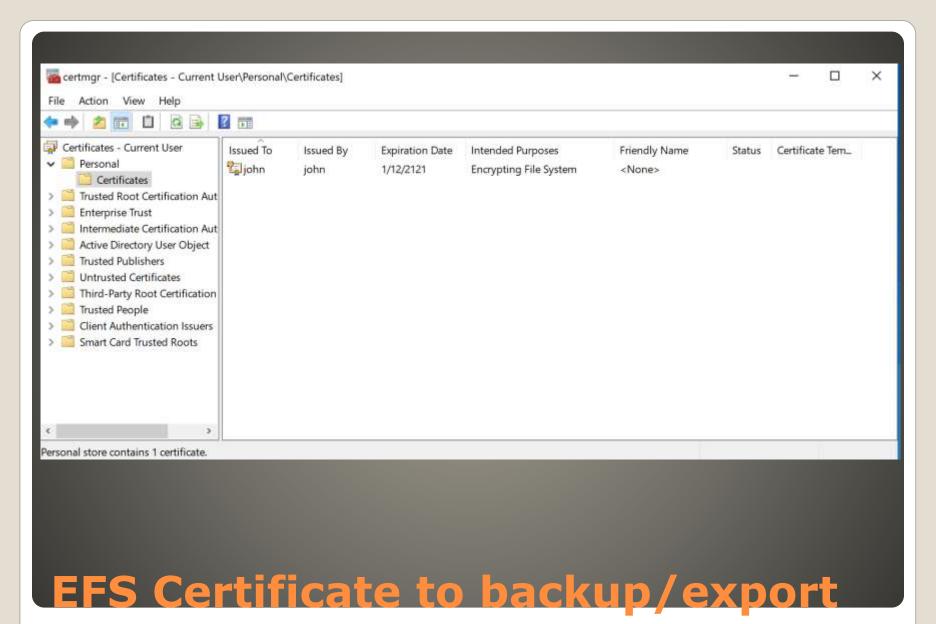




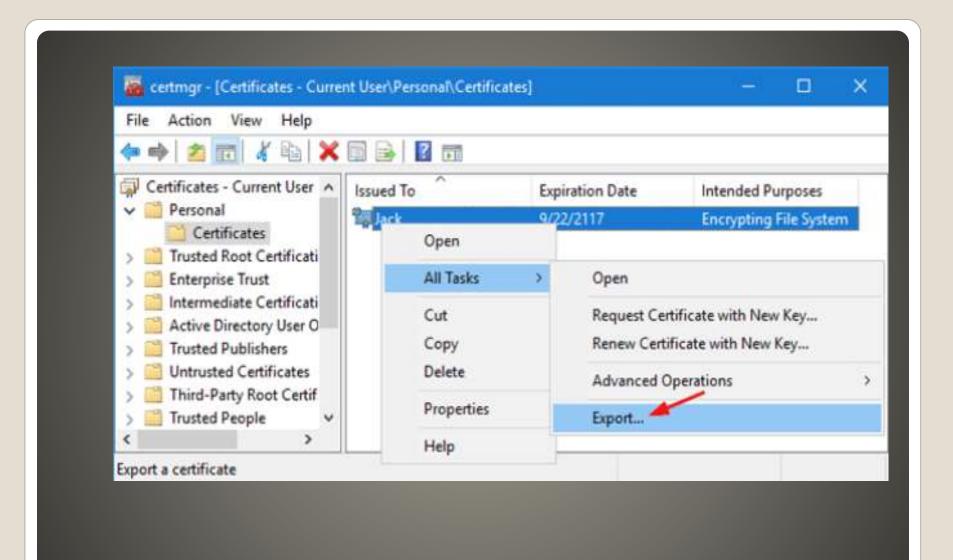


EFS















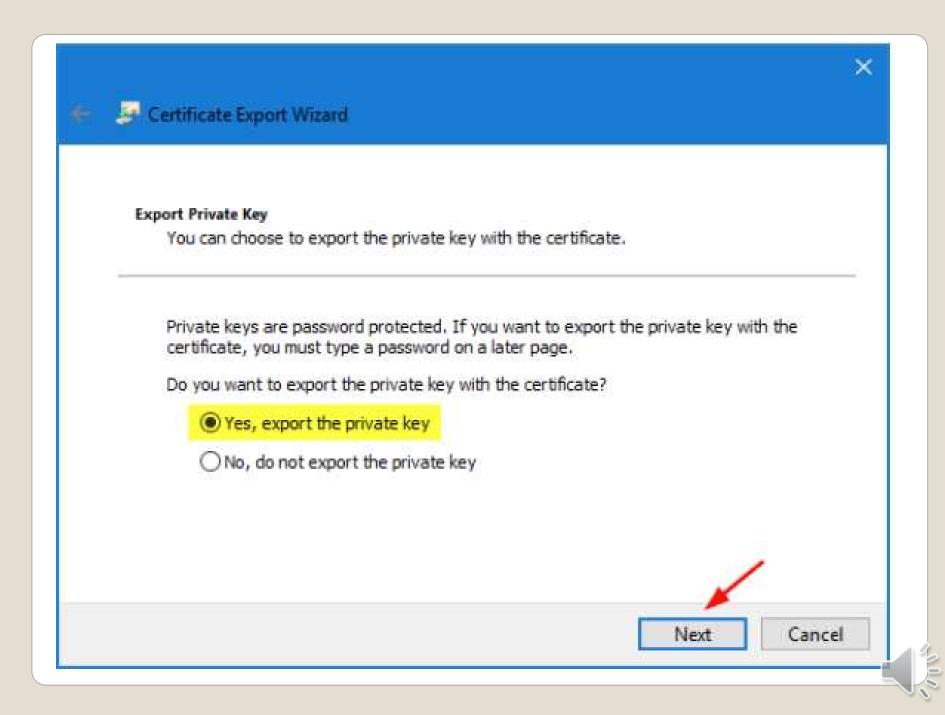
Welcome to the Certificate Export Wizard

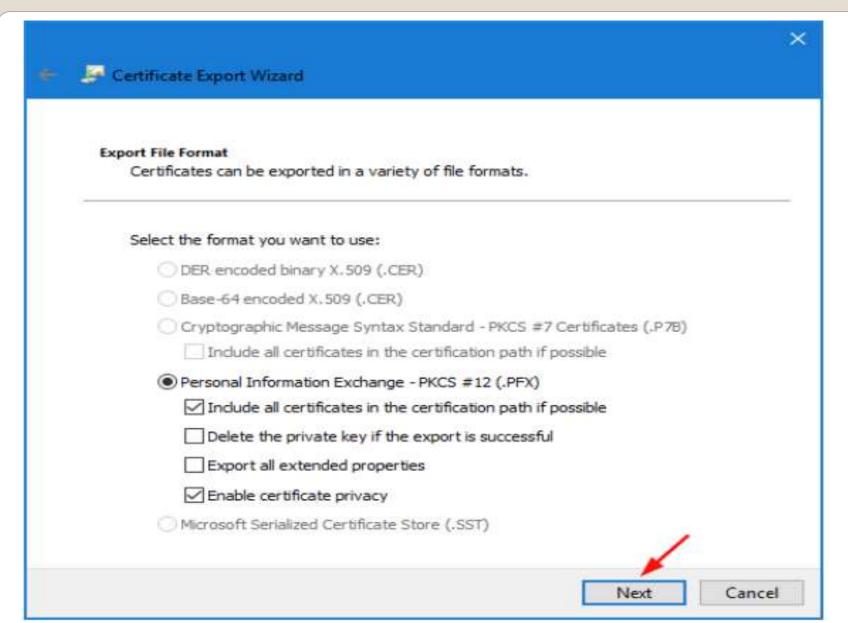
This wizard helps you copy certificates, certificate trust lists and certificate revocation lists from a certificate store to your disk.

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.





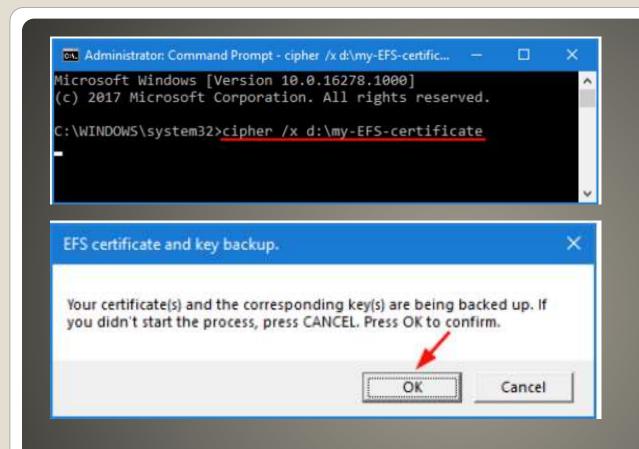




 Certificate Export Wizard	×
Security To maintain security, you must protect the private k a password.	key to a security principal or by using
Group or user names (recommended)	
	Add
Password:	
Confirm password:	
Encryption: AES256-SHA256 ~	
	Next Cancel

Select location and Finish

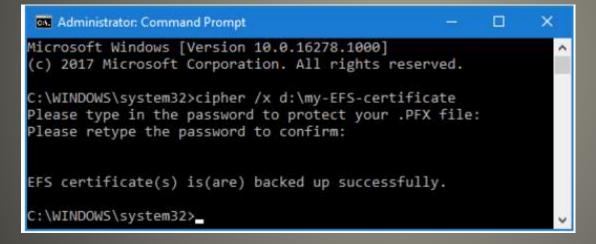




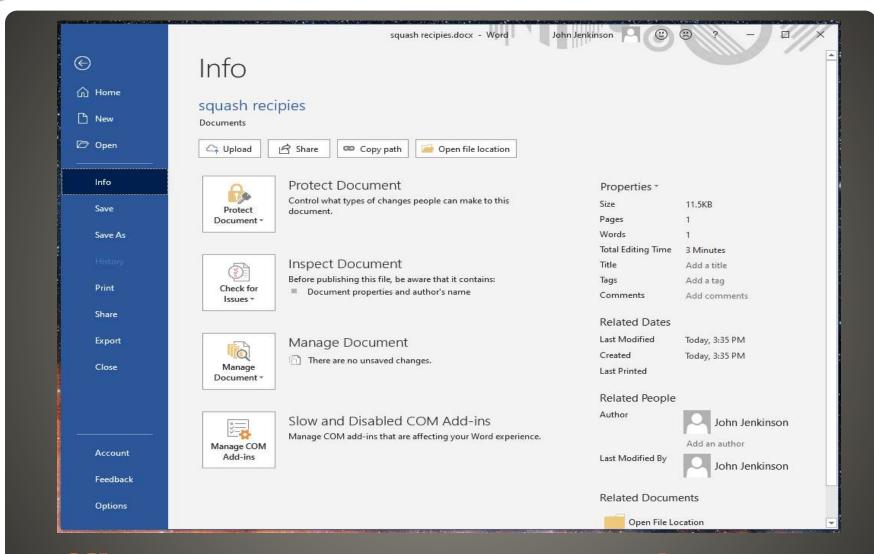
Or use Commands





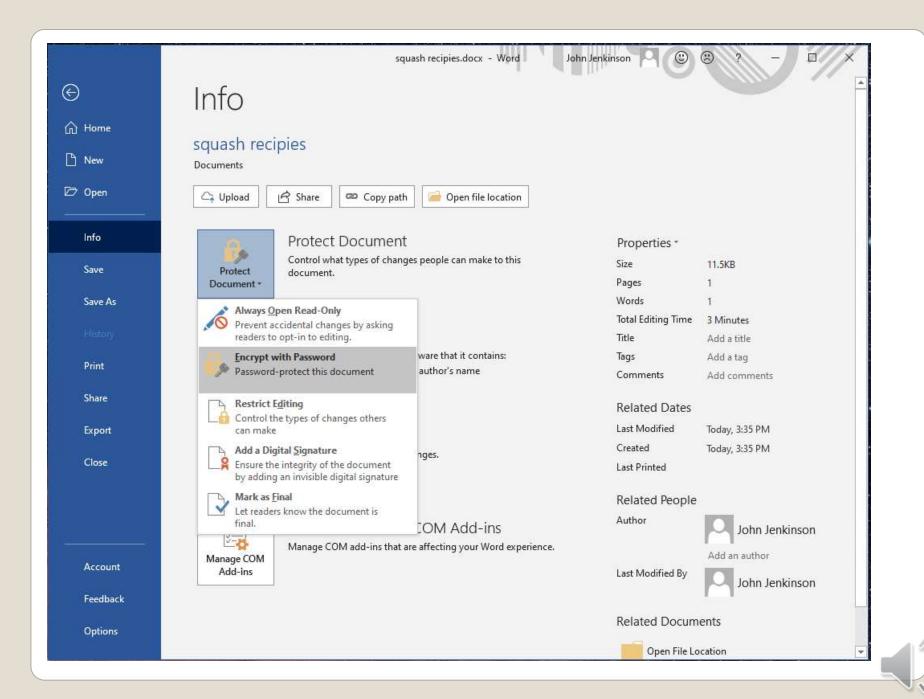


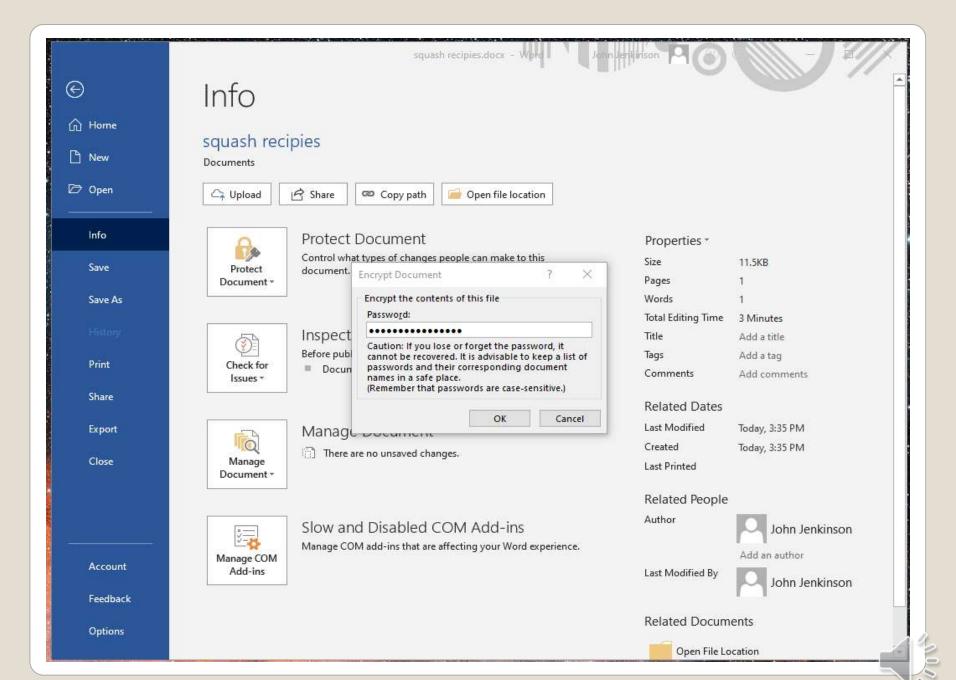




Office Document Password Protect



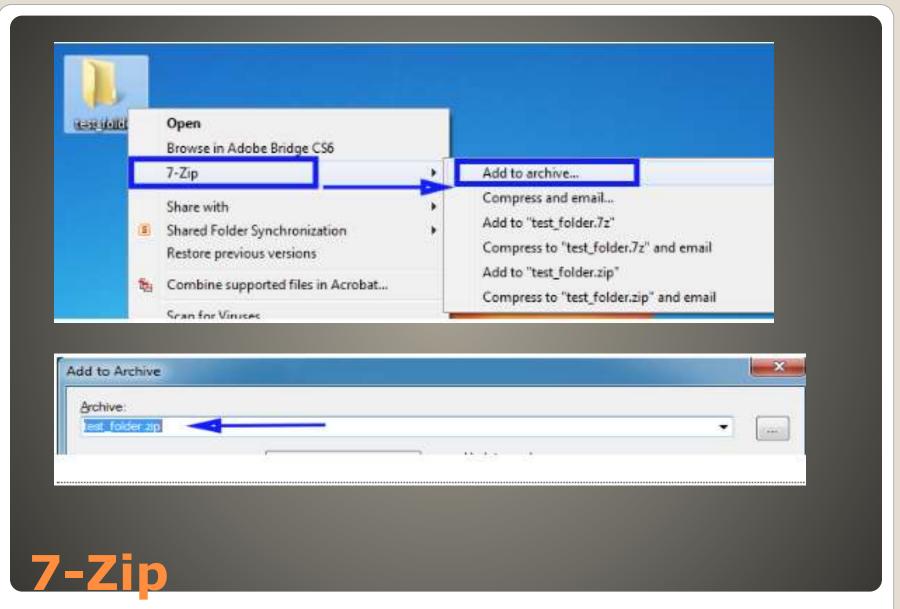




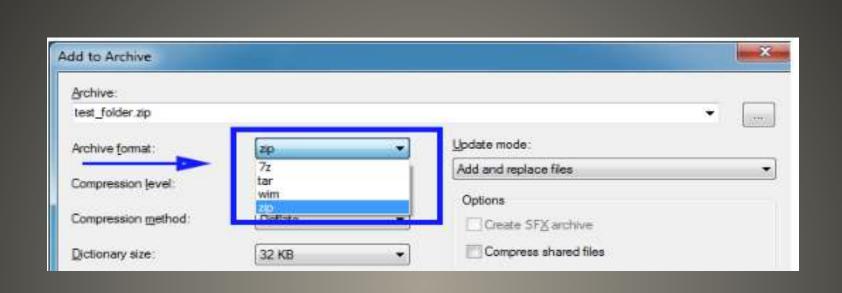
- No EFS
- Internet scripts
- WinRAR
- 7-Zip
- Microsoft Store

Windows 10 Home



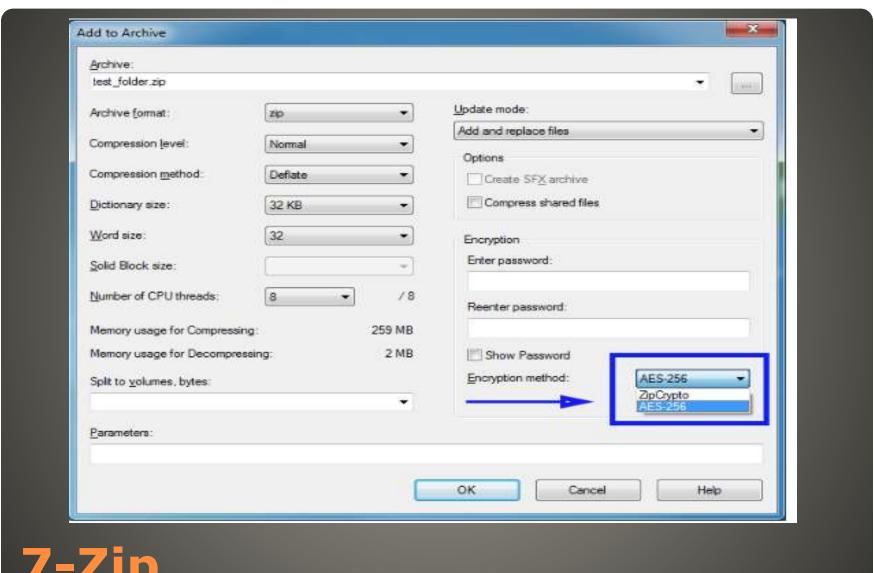




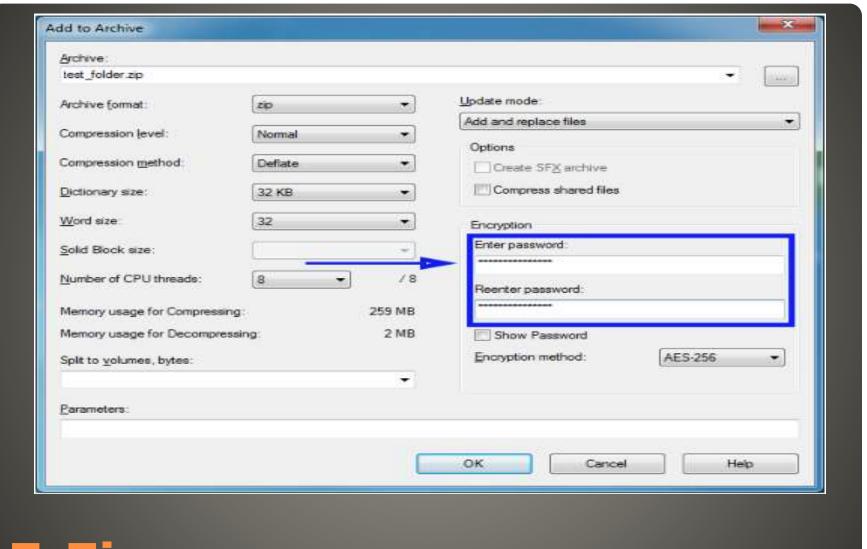


7-Zip



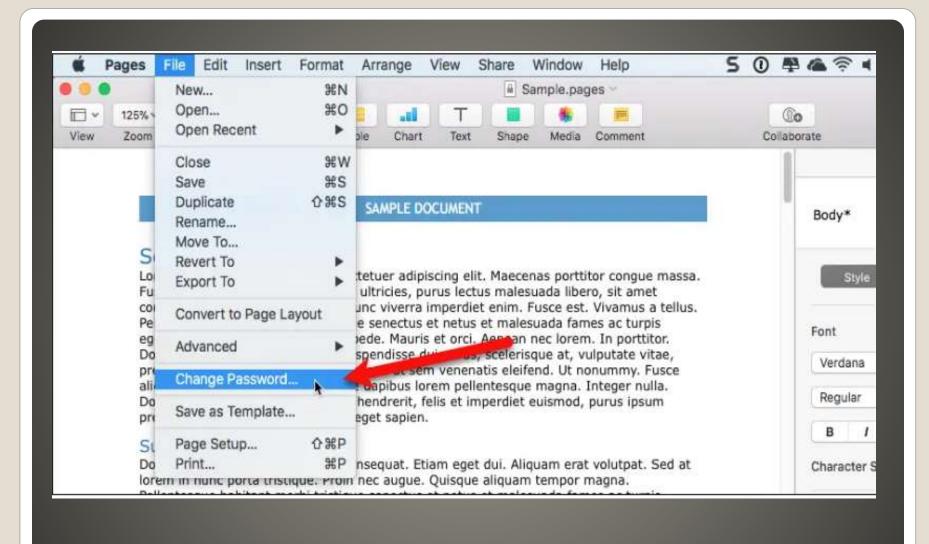






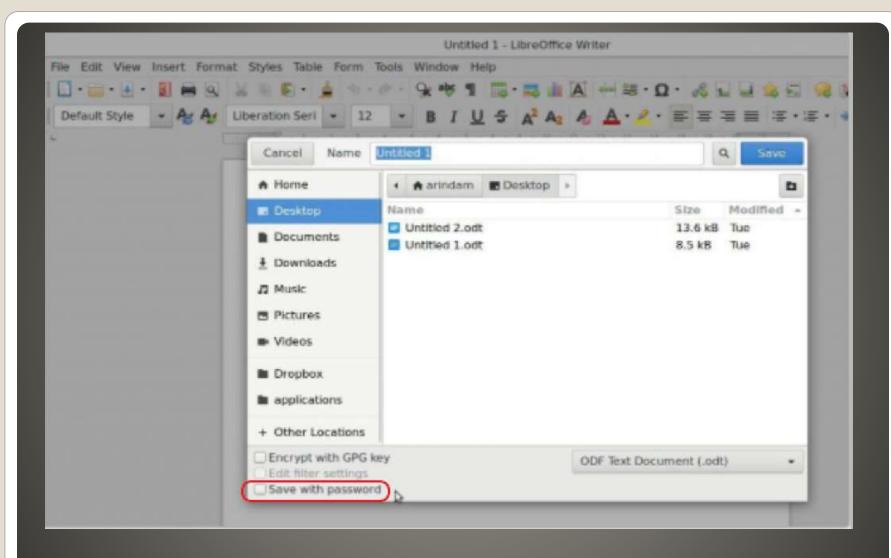
7-Zip





But I use a MAC - Keychain





Yeah well LibreOffice?



- Secure PII
- Communicate decryption passphrase out of band
- Consider the disposition of original
- Good practice for use in the Cloud
- TWO EDGED SWORD
- Protection from any/everyone without passcode
- Can include you!

Encryption



Intel® Control-Flow Enforcement Technology (Intel CET)





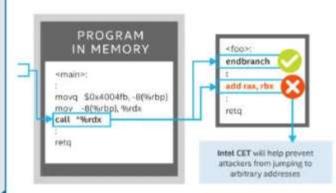
TRACKING (IBT)



SHADOW STACK (SS)

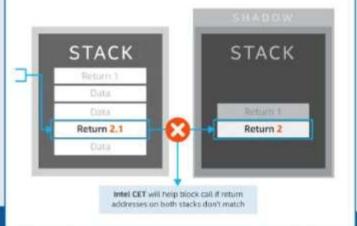
TRACKING (IBT)

IBT delivers indirect branch protection to defend against jump/call oriented programming (JOP/COP) attack methods.



SHADOW STACK (SS)

SS delivers return address protection to defend against return-oriented programming (ROP) attack methods.



Intel CET helps protect against ROP/JOP/COP malware

Intel CET is built into the hardware microarchitecture and available across the family of products with that core.

On Intel vPro* platforms with Intel* Hardware Shield, Intel CET further extends threat protection capabilities.



No product or component can be obsolutely secure. B Intel Corporation intel, the Intel logo and other Intel marks are trademarks of title! Corporation or its subsidiaries.

- Paper published Queen Mary University
- Radio waves bounced back from subjects
- Heart rate, breath rate, body movements
- Facial recognition and emotion
- Mass detection next

Thought & emotion research



CHASE 🗘

EARN MORE BENEFITS BY UPDATING YOUR INCOME.

John, you last updated your income on December 12, 2019.

Is the information still accurate? By keeping your income information up-to-date, Chase can evaluate you for more benefits such as credit limit increases, which could give you more flexibility when planning your next home improvement or large purchase – with **no credit check!**

Update your income now >

The information you provide is private and will not be shared outside of Chase.





- Helpful < > Harmful
- Awareness, Preparedness, Understanding

Computer Club, Help Center, SIGs, Presentations, FirstTime, classes Cyber Security SIG meetings, NEWSBLOG Internet

• Questions, suggestions, comments?

SCCCCyber@gmail.com

