So how do I actually apply DISA STIGs to ACF2, RACF and/or TSS?



Agenda

- Who are DISA?
- What is a STIG?
- Security Positioning?
- Similarities between ESM STIGs
- Differences between ESM STIGs
- Where Now? RACF
- Where Now? CA ACF2
- Where Now? CA Top Secret

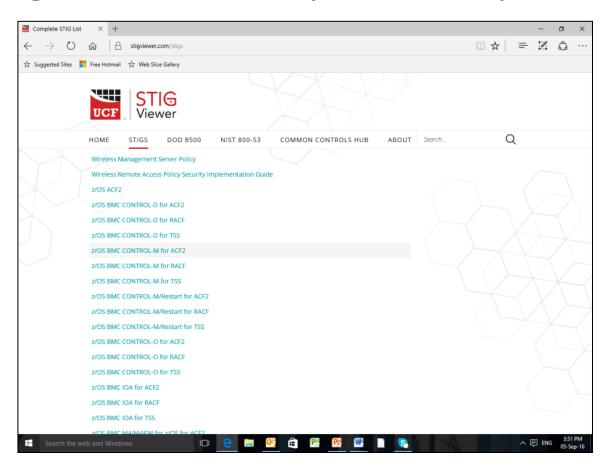
Who are DISA?

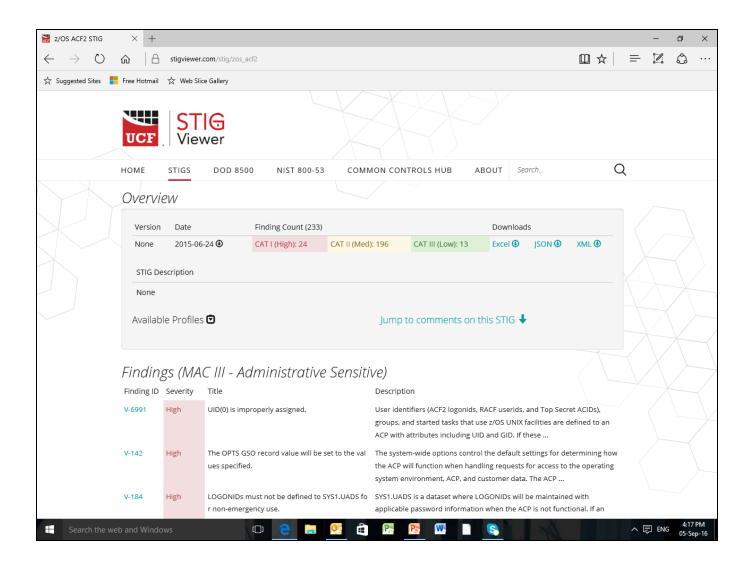
- Defense Information Systems Agency
- Note the eagle...
 - US Government Department
 - So...
 - You must implement all relevant DISA STIGs if you want to do business with the US government
 - Many are choosing DISA STIGs outside of those required

- Security Technical Information Guides
 - Documented audit points for a great many IT systems
 - The United States Department of Defense creates and maintains the DISA STIGs
 - Rapidly become the "Gold Standard for IT Security" across platforms as diverse as your mobile phone and your mainframe!

- Security Technical Information Guides
 - "Secure RACF Implementation"
 - "Secure CA ACF2 Implementation"
 - "Secure CA TSS Implementation"
- Must use a STIG Viewer
 - https://www.stigviewer.com/stigs

No single view of ESM provided by DISA





Security Positioning?

- Basic "Rules of Thumb"
 - Always educate your Users on what security means to you
 - Always have a way to find out who owns what
 - Always question requests for access
 - Never grant more access than is actually needed
 - Never grant access for longer than it is needed
 - Never stop questioning requests for access!

Security Positioning?

- Basic "Rules of Thumb"
 - ALWAYS MONITOR EVERYTHING THAT HAPPENS ON YOUR SYSTEM!!!
 - Without an audit record, it is impossible to tell what has happened when the "Bad Guys" aka "Black Hats" get in to your system
 - Learn from the NSA: Start with the assumption that you have already been "hacked"

- A lot of similarities
 - All STIGs are specific to specific software environments
 - No overall view of ESM STIGs
 - Most include commands required to set options etc

Password Rules

- Increasing the size of the character sets being used for passwords results in stronger passwords as it makes it harder for hackers to gain access
- Mixed case passwords should be used as this will greatly improve password security
- Use of AES encryption on stored passwords makes them more secure by dramatically increasing the time and effort required to decrypt them
- Password history should be set to 10 or higher

- Password Rules RACF
 - RULE 1 LENGTH(8) \$mmmmmmm
 - RULE 2 LENGTH(8) m\$mmmmm
 - RULE 3 LENGTH(8) mm\$mmmm
 - RULE 4 LENGTH(8) mmm\$mmmm
 - RULE 5 LENGTH(8) mmmm\$mmm
 - RULE 6 LENGTH(8) mmmmm\$mm
 - RULE 7 LENGTH(8) mmmmmm\$m
 - RULE 8 LENGTH(8) mmmmmmm\$
- These rules represent the fact that all passwords must be 8 characters in length and contain a National character in any position with all of the other characters being Mixed Alpha Numeric

- Password Rules CA ACF2
 - DISA STIGs require:
 - MINPSWD value of 8
 - PSWDALPH to be enabled
 - PSWDLC to be enabled
 - PSWDUC must be enabled
 - PSWDLID to be enabled
 - PSWDMIXD must be enabled
 - PSWDNUM must be enabled
 - value of 0 for PSWDPAIR
 - PSWDREQ must be enabled
- So do these...

- Password Rules CA Top Secret.
 - The DISA STIGs dictate that **NEWPW** must be set as follows:
 - MIN=8
 - WARN=10
 - MINDAYS=1
 - NR=0
 - MC
 - UC
 - LC
 - PASSCHAR(@,#,\$)

- ID
- TS
- SC
- RS
- FA
- FN

(These are the minimum special characters that can be specified)

And these...

Differences between ESM STIGs

- ESM Product Design Differences
- Underlying z/OS Subsystem Differences
 - e.g. CICS vs IMS
- Rules submitted to DISA by External Agencies
 - Maybe lack of understanding
 - Maybe not yet reported
 - If you are a US Organization, you can report new findings to DISA
 - Maybe new rule set being rolled out
 - Constantly being updated

Where now? RACF

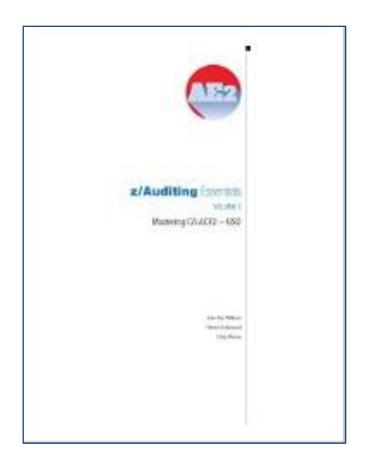
- STIGs!
- Big 4 Audit Check Lists
- NewEra Knowledge Project
 - 83 pages



http://www.newera-info.com/eBooks.html

Where now? CA ACF2

- STIGs!
- Big 4 Audit Check Lists
- NewEra Knowledge Project
 - 142 pages



http://www.newera-info.com/eBooks.html

Where now? CA Top Secret

- STIGs!
- Big 4 Audit Check Lists
- NewEra Knowledge Project
 - 94 pages



http://www.newera-info.com/eBooks.html

Thank You!

Julie-Ann Williams Managing Director millennia... julie@sysprog.co.uk