

Vulnerability Scan vs Penetration Test

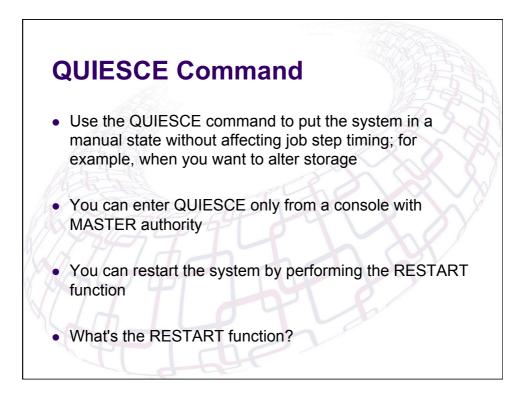
• Vulnerability

- A weakness in the system
- Allows an attacker to create OR implement an EXPLOIT -- More on this later
- The exploit of the correct nature can elevate security privileges, change data or even bring the system down......
- Anyone know what the MVS Command QUIESCE does?
- Or better still how to recover from it?



Penetration Test

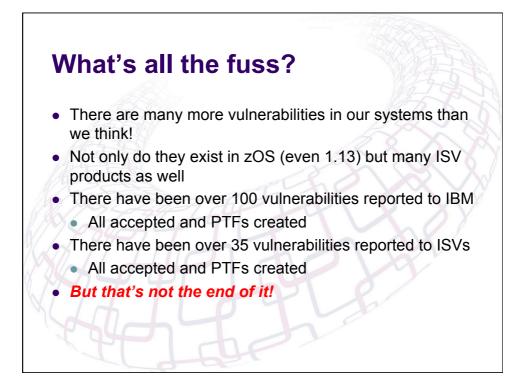
- Usually focused on an internal or sometimes external methodical test of the system configuration
- The aim being to see if you can access sensitive resources or elevate your privileges
- Have done several of these before, my best time from logging on to elevating my privileges took less than 10 minutes!
- One customer kept me waiting for 3 days for a windows & mainframe logon
- I hour after I actually logged on it was all over!

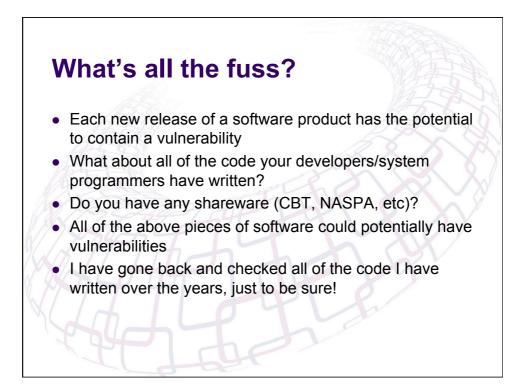


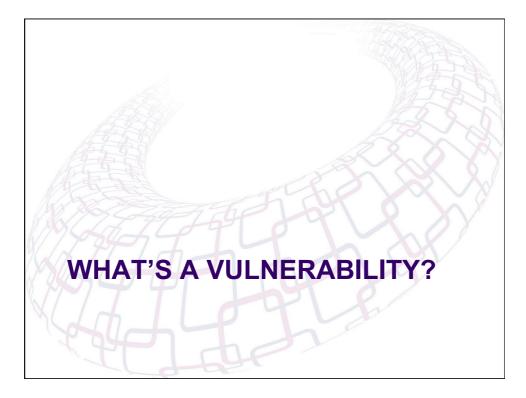
Penetration Test versus Vulnerability Scan

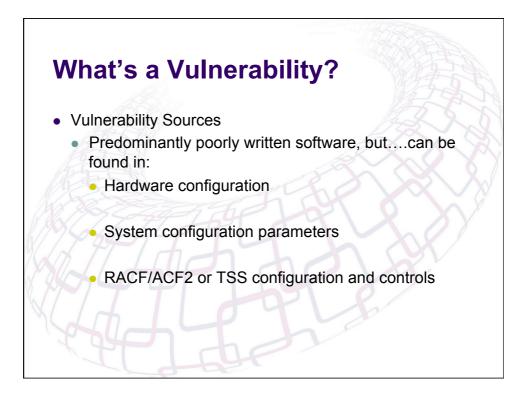
- What is an exploit?
 - A set of instructions to exploit a vulnerability
 - Whose goal is to bypass installation controls
 - To gain access to resources that should be protected
 - Typically no logging will occur for the access (i.e. no SMF, syslog entries, etc)
 - Exploits are based upon one or more vulnerabilities

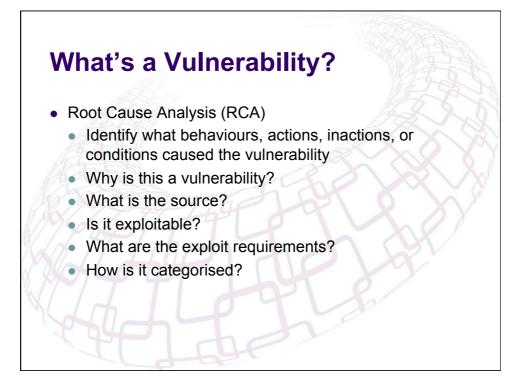


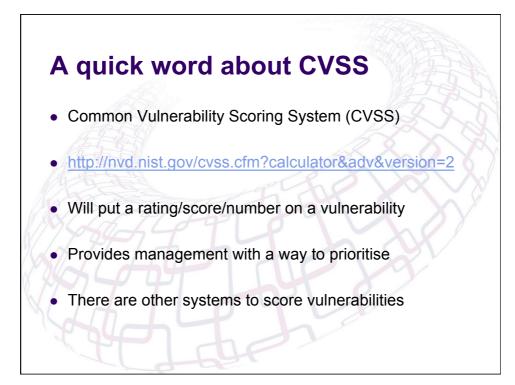




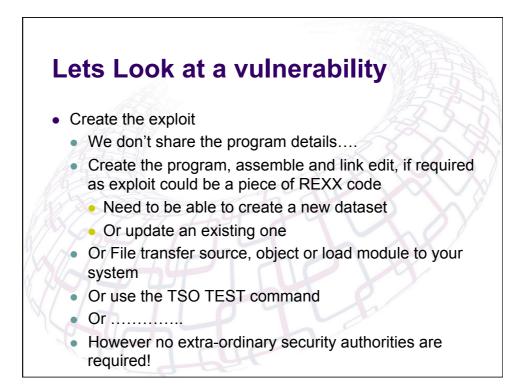




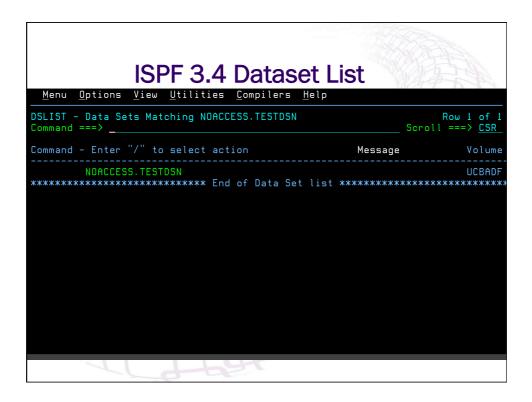


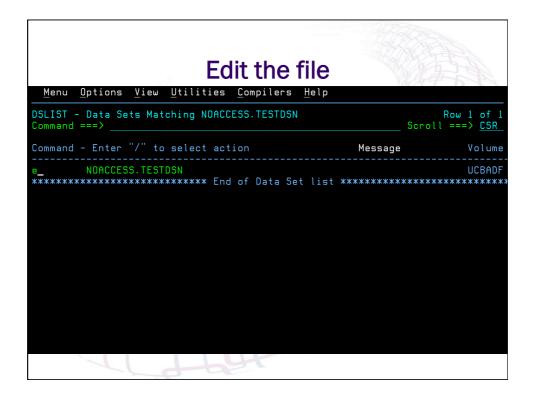


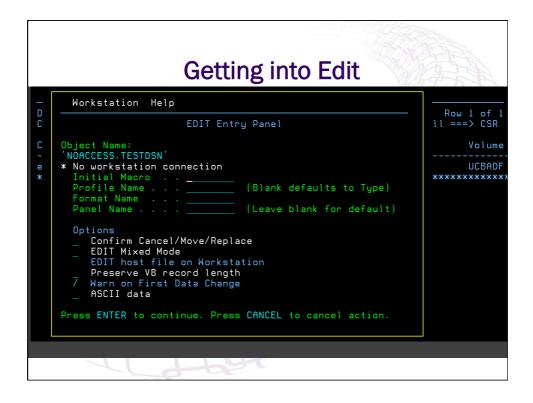


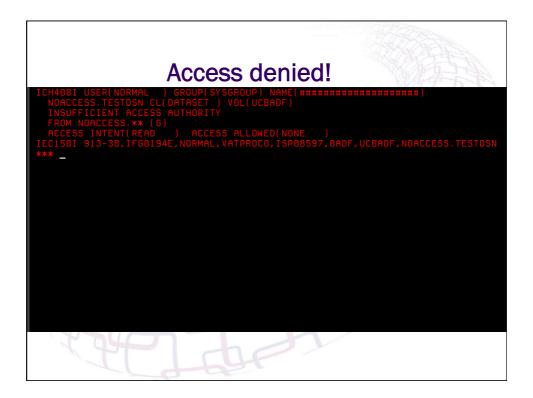


Access th	ne dataset – ISPF 3.4
	Data Set List Utility
Option ===>	
blank Display data set V Display VTOC inf	More: + : list P Print data set list `ormation PV Print VTOC information
Enter one or both of the Dsname Level <u>NOA</u> Volume serial	CCESS.TESTDSN
Data set list options Initial View <u>1</u> 1. Volume 2. Space 3. Attrib 4. Total	Enter "/" to select option / Confirm Data Set Delete / Confirm Member Delete / Include Additional Qualifiers / Display Catalog Name _ Display Total Tracks _ Prefix Dsname Level
	displayed, enter either: it command field for the command prompt pop-up, the name of a TSO command, CLIST, or REXX exec, or

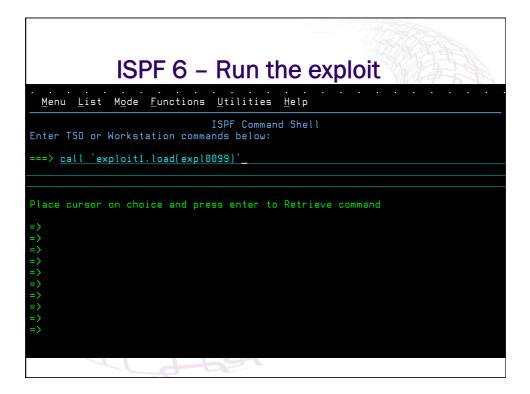




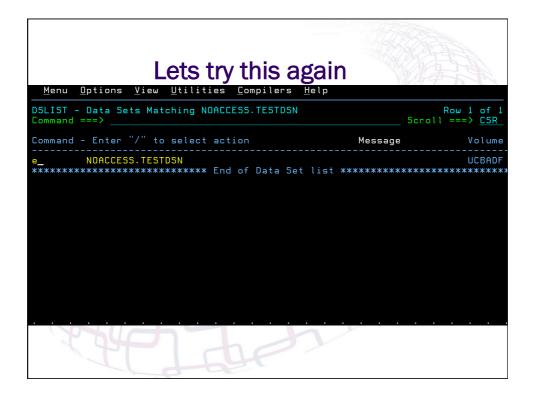


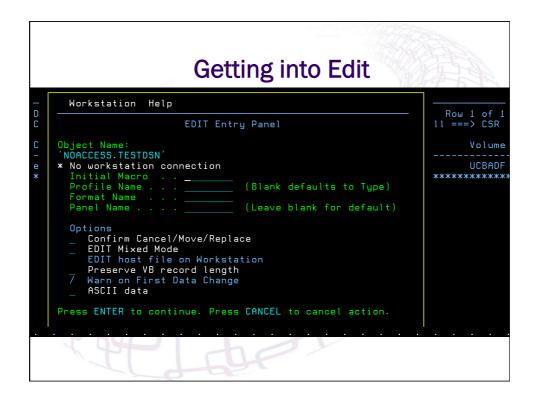


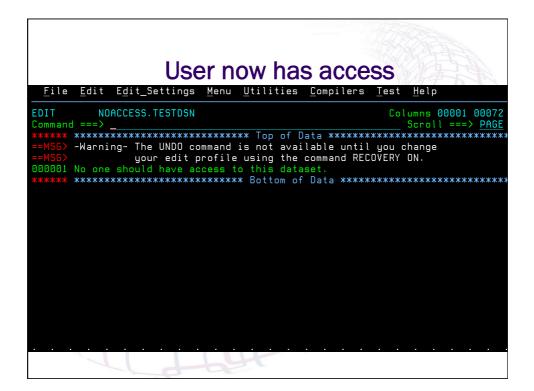
DSLIST - Data Sets Matching NOACCESS.TESTDSN Command ===>		ation failed ll ===> <u>CSR</u>
Command – Enter "/" to select action	Message	Volume

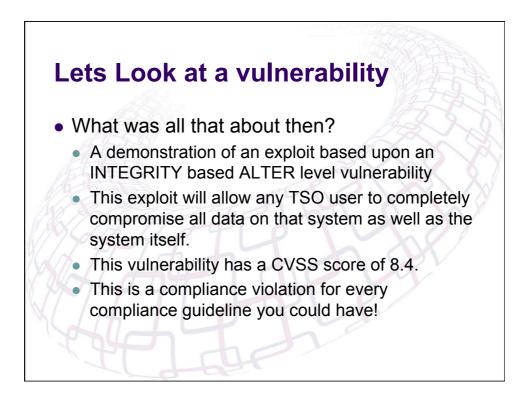


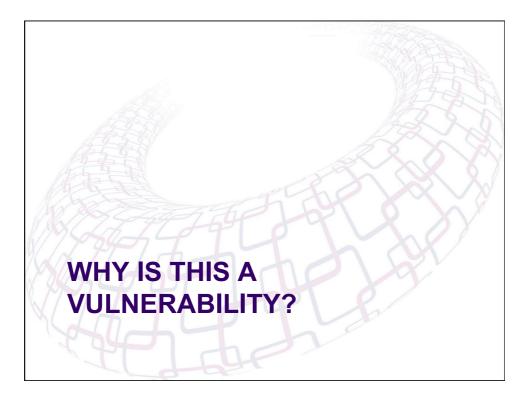


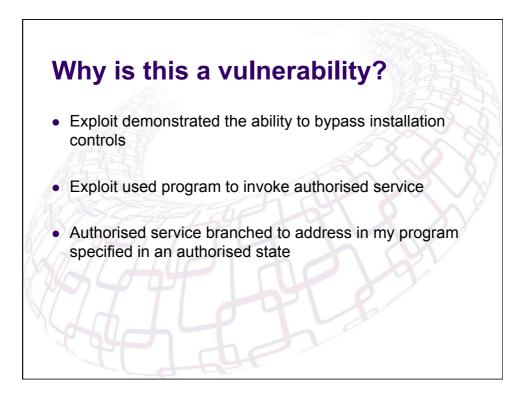


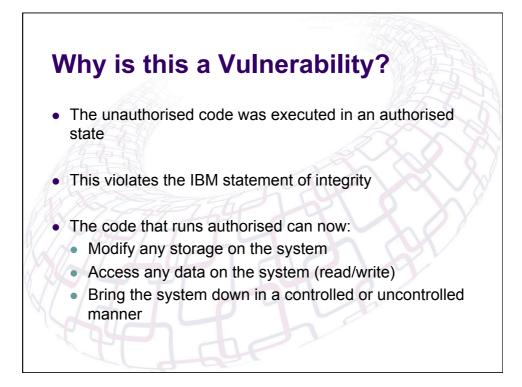


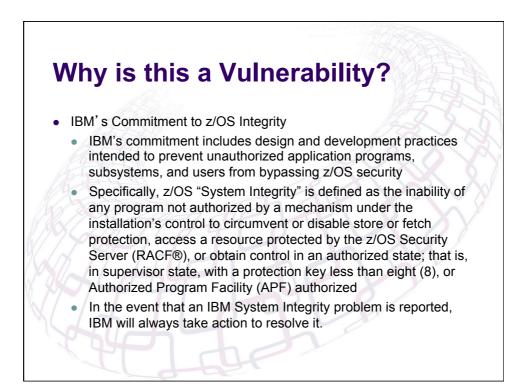


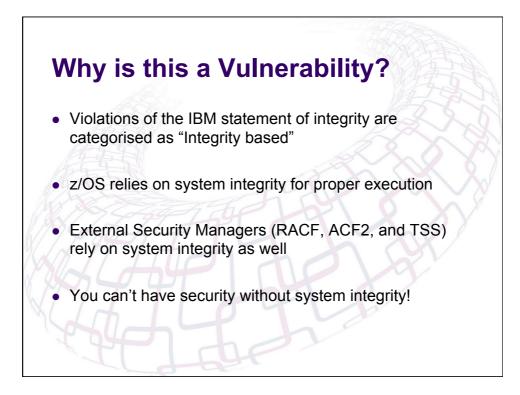


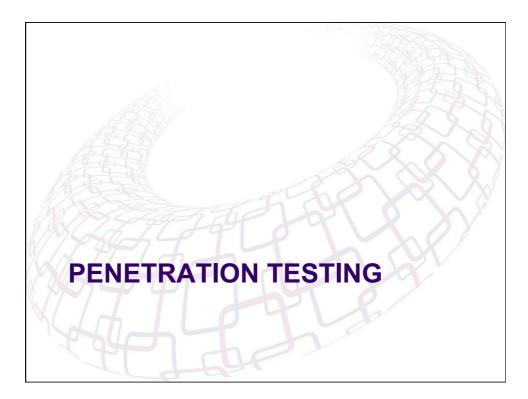


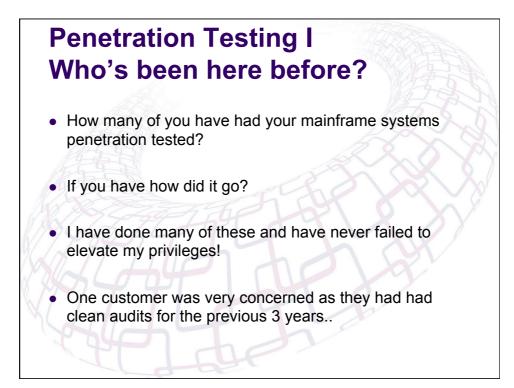


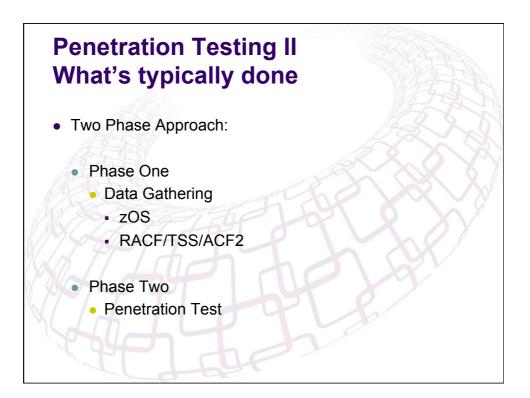


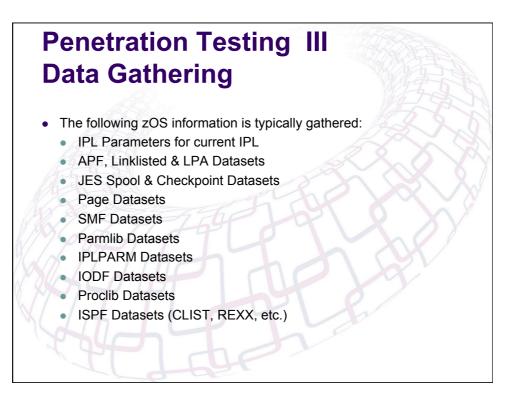


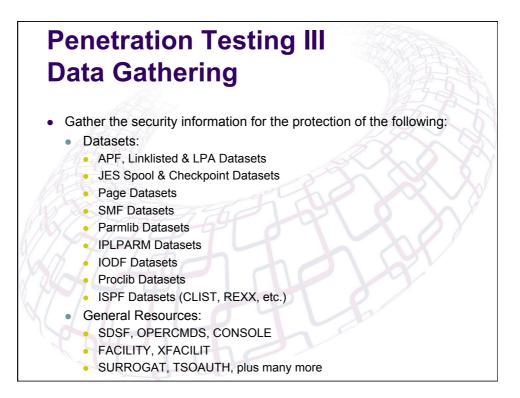


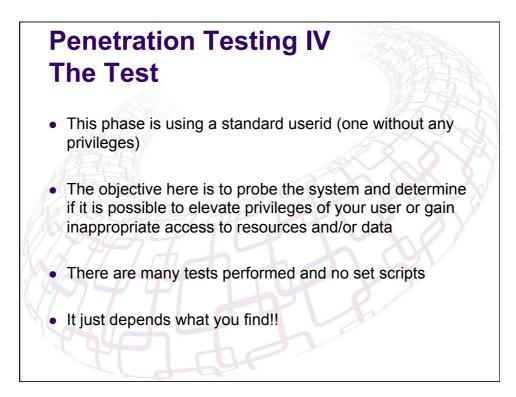


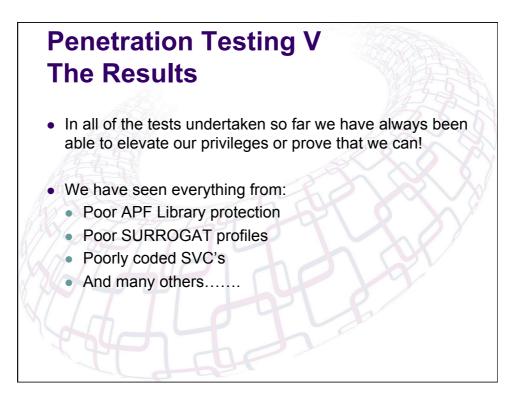


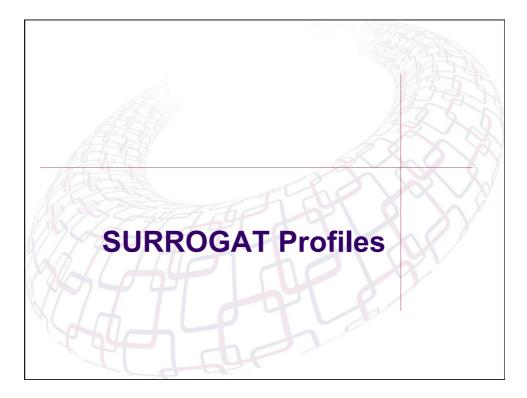


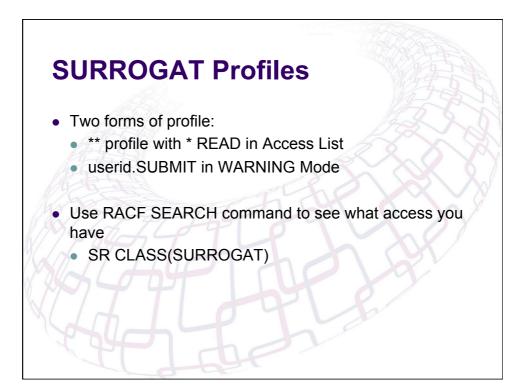


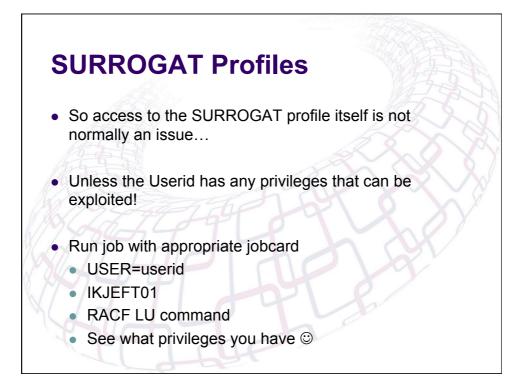


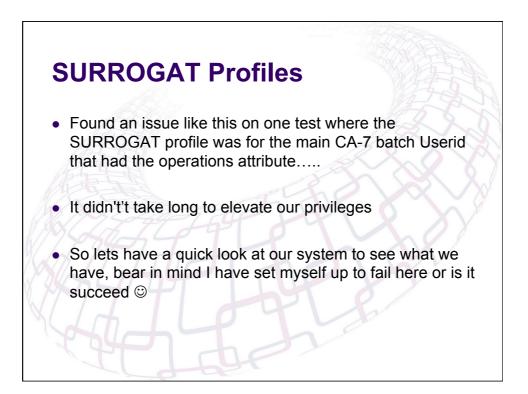


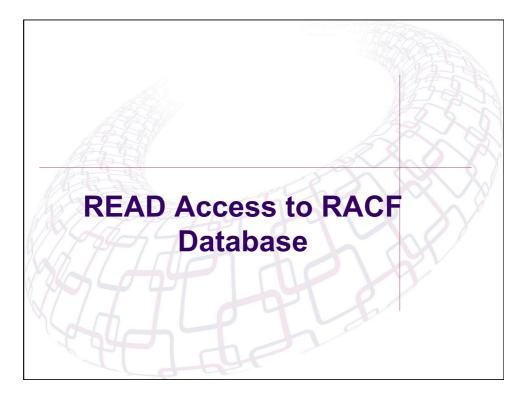


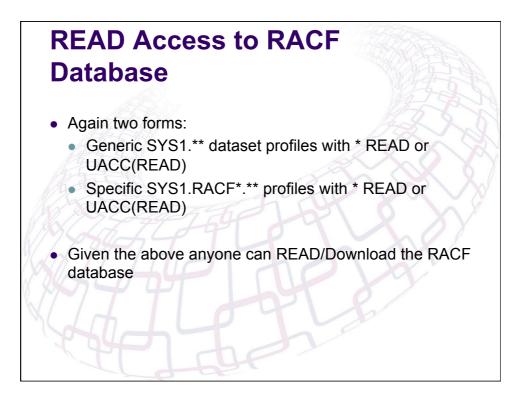


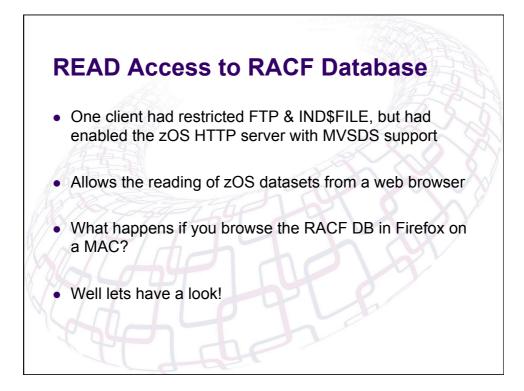






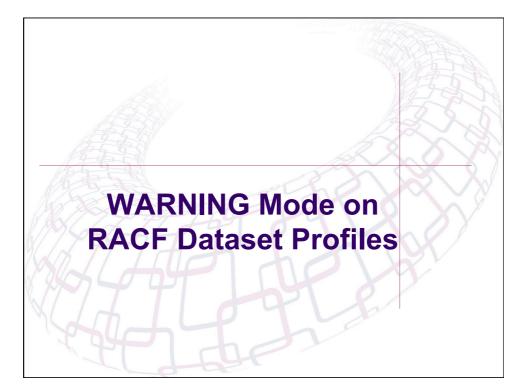


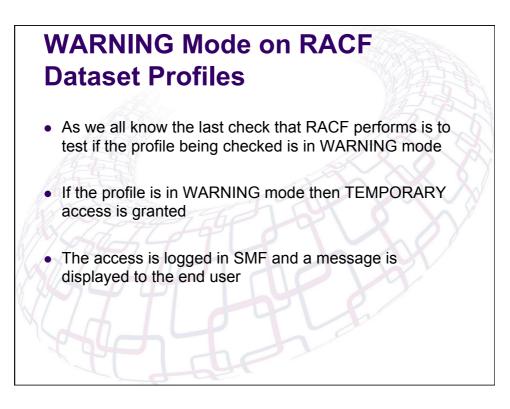


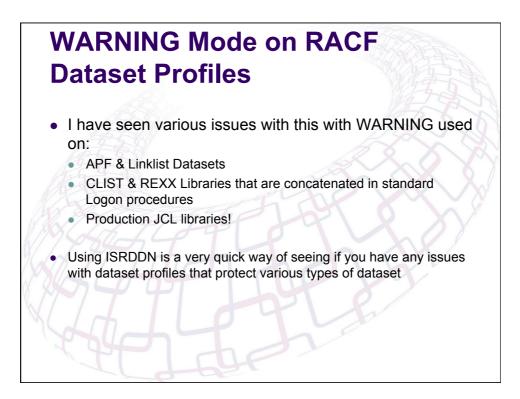


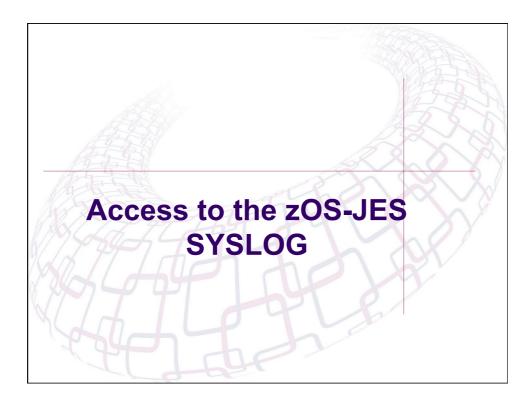
READ Access to RACF Database

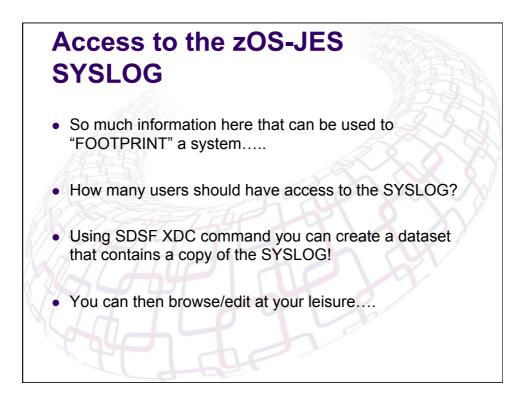
- I know have a copy of the RACF database in my Downloads folder
- Anyone ever been to this website www.racf.co.uk?
- This is our good friend Nigel Pentland's home page that has some useful tools for analysing RACF databases and doing password analysis
- I have in the past uploaded the binary version of the RACF database to our system, created an IRRDBU00 version and downloaded back to the PC for analysis

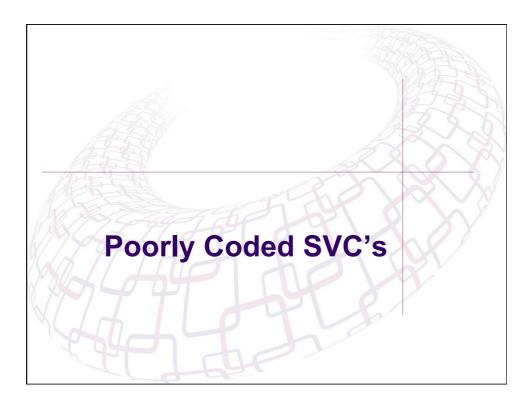


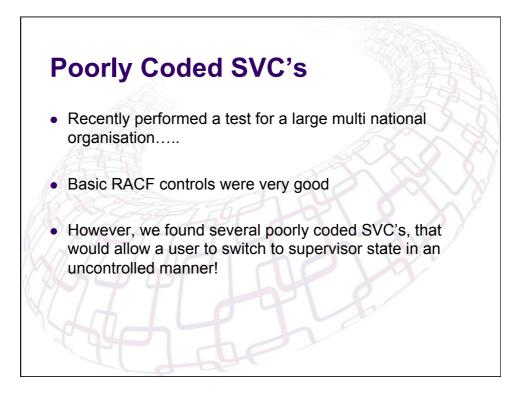


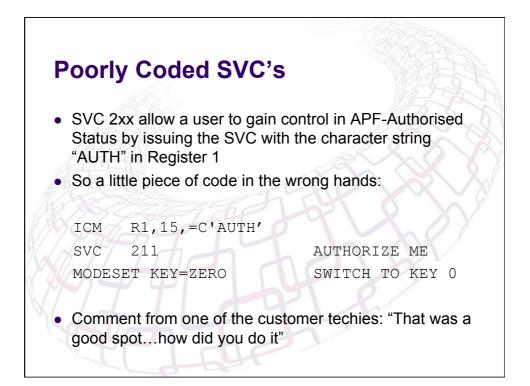


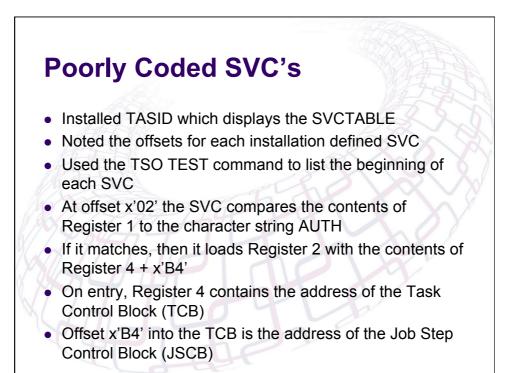


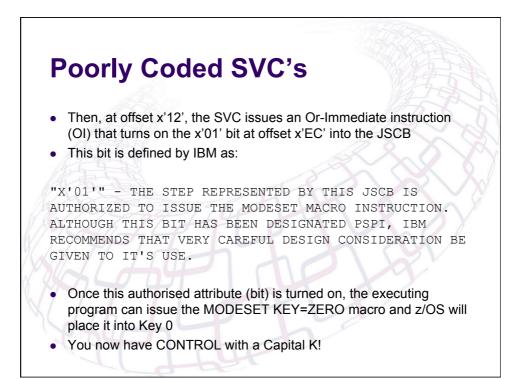












c d5d000. i l (64) +0 BALR R12,0 +2 C R1,30(,R12) +6 BC 7,28(,R12) +8 L R2,180(,R4) +E BCT R0,24(,R12) +12 OI 236(R2),1 +16 BC 15,28(,R12) +17 BC 15,R14	NVALID INSTRUCTION CODE AT +2A EST svc d5d000. EST svc i l(64) VC +0 BALR R12,0 +2 C R1,30(,R12) +6 BC 7,28(,R12) +8 L R2,180(,R4) +12 OI 236(R2),1 +16 BC 15,28(,R12) +17 DI 236(R2),254 +18 NI 236(R2),254 +18 BCR 15,R14 NVALID INSTRUCTION CODE AT +20 EST svc c l(64) VC +0
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