Air Force Association's CyberPatriot
The National High School Cyber Defense Competition
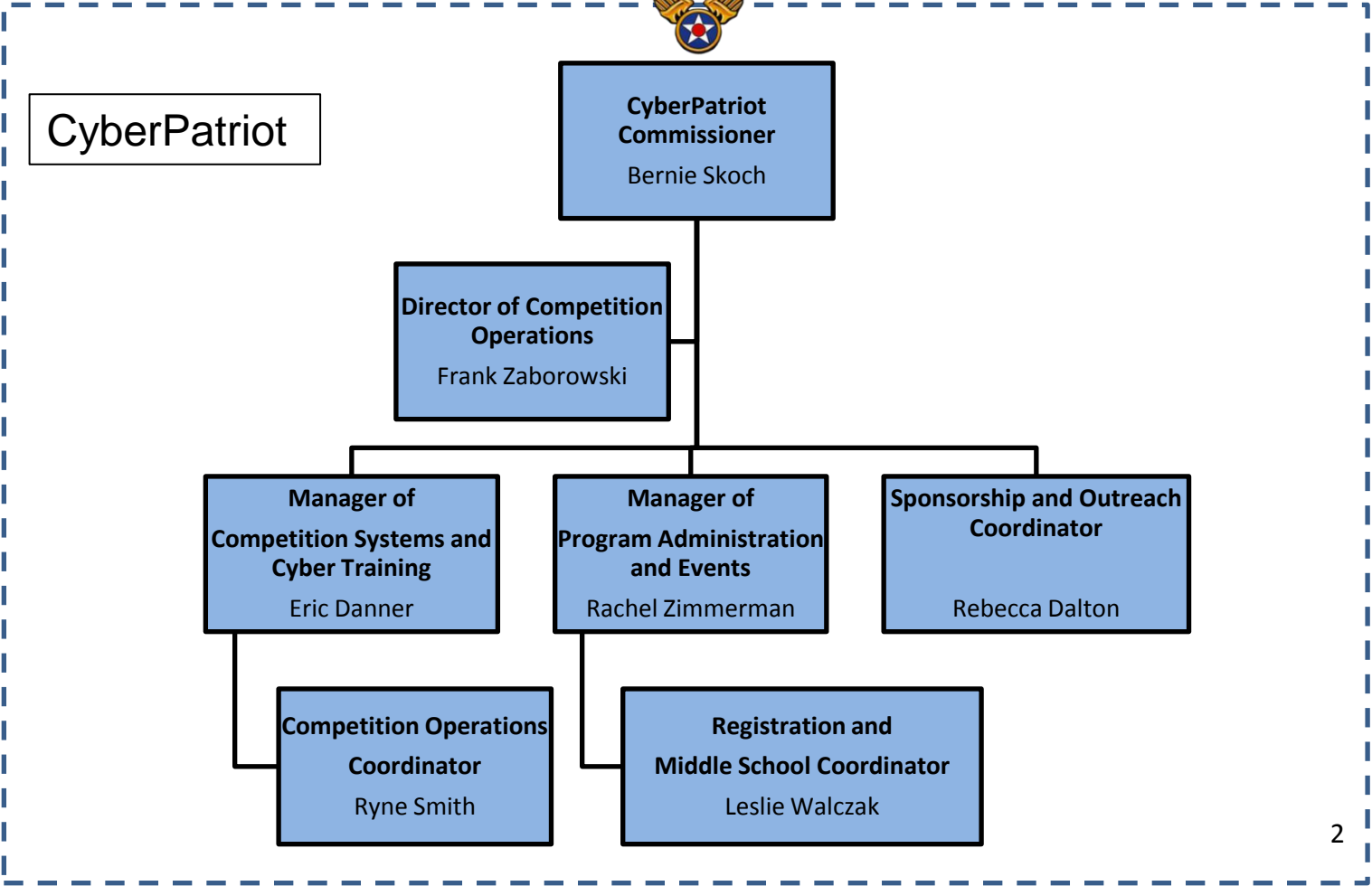
Online
Coaches' Meetings
September 10 & 11, 2013

Organization Chart

Air Force Association AFA

CyberPatriot

CyberPatriot Commissioner

Bernie Skoch

Director of Competition Operations

Frank Zaborowski

Manager of

Competition Systems and Cyber Training

Eric Danner

Manager of

Program Administration and Events

Rachel Zimmerman

Sponsorship and Outreach Coordinator

Rebecca Dalton

Competition Operations Coordinator

Ryne Smith

Registration and

Middle School Coordinator

Leslie Walczak

Coaches' Role

The Coach is the Backbone of the Competition

No team may compete in CyberPatriot until there is first a <u>responsible adult</u> willing to accept the following responsibilities.

(1) **Competitor Protection**. The coach is responsible for the protection and safety of their team's competitors while involved in CyberPatriot activities. Access to minor students in a way that protects them, respects parental prerogatives, and follows legal statutes (e.g., Children's Internet Protection Act), is the coach's responsibility. As the "gate keeper" for contact with the competitors, the coach is accountable for the interaction of "mentors or technical advisors" to the competitors.

(2) **Competition Integrity**. Ensuring the integrity of the competition is essential to the fairness of the competition. Once the competition begins, the coach must ensure that their competitors receive no assistance, except between competitors on the same team. The coach upholds the guiding and operating principles of the competition at the team level.

(3) **Official Point of Contact**. The coach is the official point of contact for a team. Official CyberPatriot competition and other correspondence is provided to coaches for further dissemination to their teams. It is key during competition that coaches monitor their e-mail for up-to-date information that competitors will not receive directly. The role of official point of contact cannot be delegated to the mentor.

(4) Abide by the CyberPatriot Coaches' Agreement.

Rules of the Road

This WebEx is provided by Cisco Systems

CISCO

Meeting is based around presentation.

Presenters will use Audio

Participants will use Chat

_NO_ private chat rooms

Hold questions until the end, so everyone can concentrate on brief

Presentation will be posted at www.uscyberpatriot.org under the CyberPatriot VI tab/ CyberPatriot VI Documents

Registration

The deadline to register as a Coach is October, 10

- ## Rule change: One coach may now coach up to three teams
  - Each team requires a unique coach registration with a unique email address
  - Competitors are non-transferable between teams
  - [Click here](#) for more information

- ## Middle school
  - Registration for the Middle School Pilot is now open to all Middle Schools
  - [Click here](#) for more information

- ## Fee Waiver
  - For each All Service Division team registered at a school we will waive one Open Division team fee

NCWIT

- NCWIT Award for Aspirations in Computing
  - recognizes high school young women for their interest and aptitude in technology.
  - Applications are open 9/15-10/31
  - www.aspirationsaward.org.

@NCWITAIC

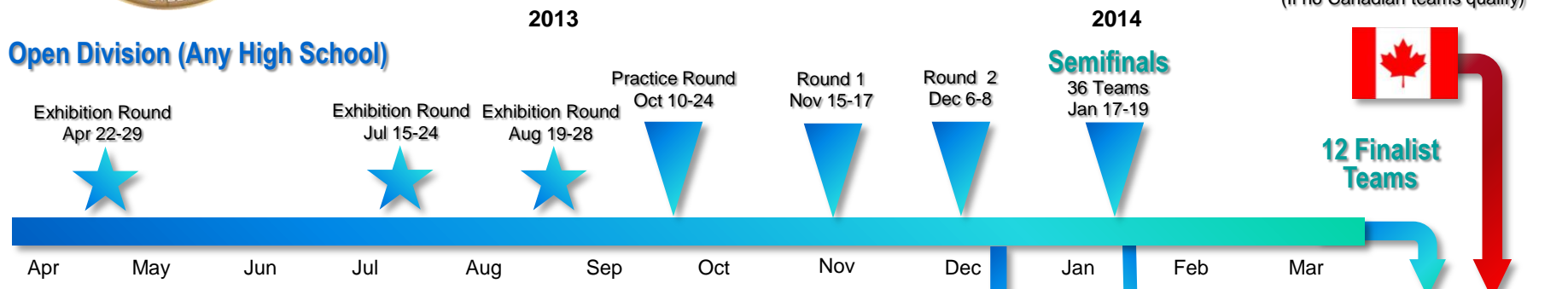# CyberPatriot VI Rules Book

Planned October 1 Release

<u>Rules Changes</u>

- **6-hour competition period for ALL Images and Tasks**

- **3 teams per Coach**

- **<u>MUST</u> connect to scoring server over Internet to begin competition**

- **Online Scoreboard**

- **Awards Hierarchy**

- **Regional Recognition Round**

- **Middle School Division**

- **Limited Sunday Competition Window**
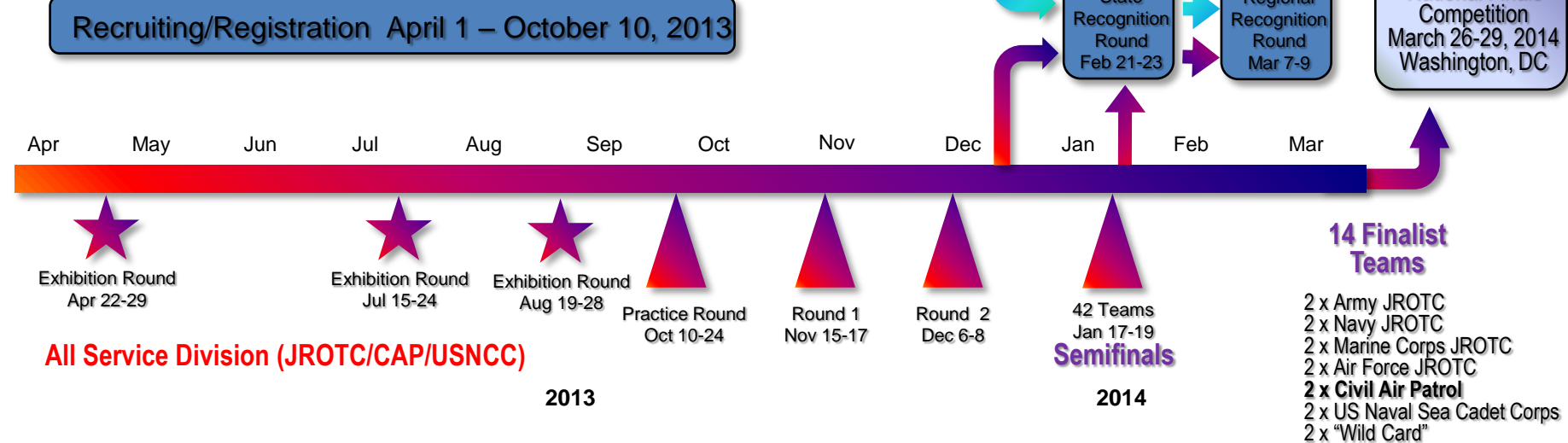
- **Friday Competition Window until 3 am Saturday Eastern Time**

2 International Exhibition Teams
(If no Canadian teams qualify)

2013

2014

Open Division (Any High School)

Semifinals

Exhibition Round
Apr 22-29

Exhibition Round
Jul 15-24

Exhibition Round
Aug 19-28

Practice Round
Oct 10-24

Round 1
Nov 15-17

Round 2
Dec 6-8

36 Teams
Jan 17-19

12 Finalist Teams

Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar

Recruiting/Registration April 1 – October 10, 2013

State Recognition Round
Feb 21-23

Regional Recognition Round
Mar 7-9

National Finals Competition
March 26-29, 2014
Washington, DC

Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar

Exhibition Round
Apr 22-29

Exhibition Round
Jul 15-24

Exhibition Round
Aug 19-28

Practice Round
Oct 10-24

Round 1
Nov 15-17

Round 2
Dec 6-8

42 Teams
Jan 17-19

14 Finalist Teams

All Service Division (JROTC/CAP/USNCC)

Semifinals

2013

2014

2 x Army JROTC
2 x Navy JROTC
2 x Marine Corps JROTC
2 x Air Force JROTC
2 x Civil Air Patrol
2 x US Naval Sea Cadet Corps
2 x "Wild Card"

CP-VII Recruiting Pre-Registration Jan 1 – Apr 1 2014

CyberPatriot VI Competition System Schedule

■ CCS

■ CyberNEXS

Sneak Preview Round
- Sep. 21, 2013

Practice Round
- Oct. 10 - 24, 2013

Qualification Rounds

All teams compete in Rounds 1 & 2

Round 1
- Nov. 15 - 17, 2013
- Backup: Nov. 22 - 24, 2013

Round 2
- Dec. 6 - 8, 2013
- Backup: Dec. 13 - 15, 2013

Semifinals
- Practice: Jan. 9-15, 2014 (Tentative)
- Competition: Jan. 17-19, 2014
- Backup: Jan. 24-26, 2014

State Recognition Round
- Feb. 21-23, 2014
- Backup: Feb. 28 – Mar. 2, 2014

All teams compete except National Finalists

Regional Recognition Round
- Practice: Feb. 24 – Mar. 6, 2014 (Tentative)
- Competition: Mar. 7 - 9, 2014
- Backup: Mar. 14 - 16, 2014

Top Division teams in each state compete

The National Finals Competition: Mar. 26 - 29, 2014

*Note: Backup dates will be used only in case of a verified disaster, community emergency, or as directed by the Commissioner, CyberPatriot.

Sneak Preview

September 21, 2013

12 Noon – 3 pm Eastern Time

(3 Hours)

_____

- **Open to _ALL_ registered teams**

- **Competitors do not have to be registered**

- **Individuals compete from home**

- **Coaches control images, passwords, and hashes**

- **WebEx Q&A session 11:30 Eastern Time**

- **Multiple training sessions during round**

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Sneak Preview

- **Images will be distributed by Thursday, September 19 to all Coaches and Mentors**

- **Decryption password and hashes will be sent to all registered Coaches and Mentors just before StartEx on Saturday**
  - **All users will receive a unique hash – DIFFERENT FROM QUALIFICATION ROUNDS**

- **Scoring feedback will not take place without connection to server**

Sneak Preview Edition of CyberSentinel will be released

Friday, September 13, 2013

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CyberPatriot Competition System

Control

Delete

Property
of the
Air Force Association

The CyberPatriot Competition System is the
sole property of the Air Force Association.
All rights reserved.

CyberPatriot Round 0 Image

Report Generated At: 2013-Sep-09 18:32:31 UTC

Approximate Running Time: 00:33:26

Current Team ID: 046A926BB3

20 out of 60 points received

Connection Status: No Errors Detected

Internet Connectivity Check: OK
CyberPatriot Connection Status: OK
CyberPatriot Score Upload Status: OK

0 penalties assessed, for a loss of 0 points:

2 out of 6 scored security issues fixed, for a gain of 20 points:

The CyberPatriot Competition System is the property of the Air Force Association and the University of Texas at San Antonio.

All rights reserved.

Scored Practice Images: Part 1

**Courtesy of
Texas A&M Corpus Christi**

Teams can now build self-scoring Windows practice images. Here's how:

- Use your MSDN credentials to download a Windows 7 or Server 2008 ISO
- Create a new virtual machine in VMware Player
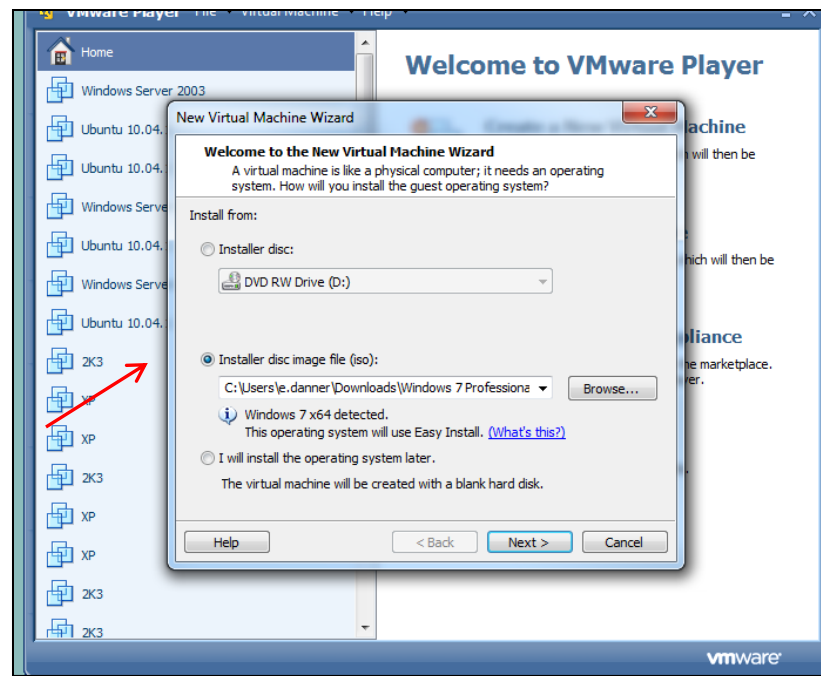
Scored Practice Images: Part 2

Courtesy of
Texas A&M Corpus Christi

- Go to www.uscyberpatriot.org → Documentation → Training Materials

- Download Scoring Engine Tools for Windows 7 and Server 2008

- Extract contents of .7z file (you will need 7zip, available free at www.7-zip.org)

- Copy contents ScoringEngineTools.7z into practice image, extract

- Install .NET Framework 4.0 in image
    - Download from http://www.microsoft.com/en-us/download/details.aspx?id=17851
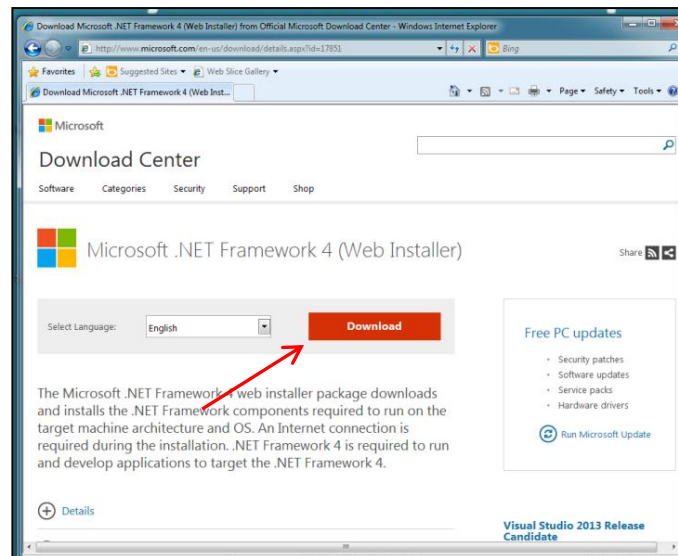
Scored Practice Images: Part 3

- Prepare the image by adding vulnerabilities, such as:
  - Account and Password policy issues • Disabled firewall
  - Unnecessary shares
    - Unnecessary access to system from network
- The full menu of vulnerabilities are in the Front End Scoring Engine

- Note: vulnerabilities selected in the Front End Scoring Engine must correspond exactly to the vulnerabilities in the image in order for them to be scored
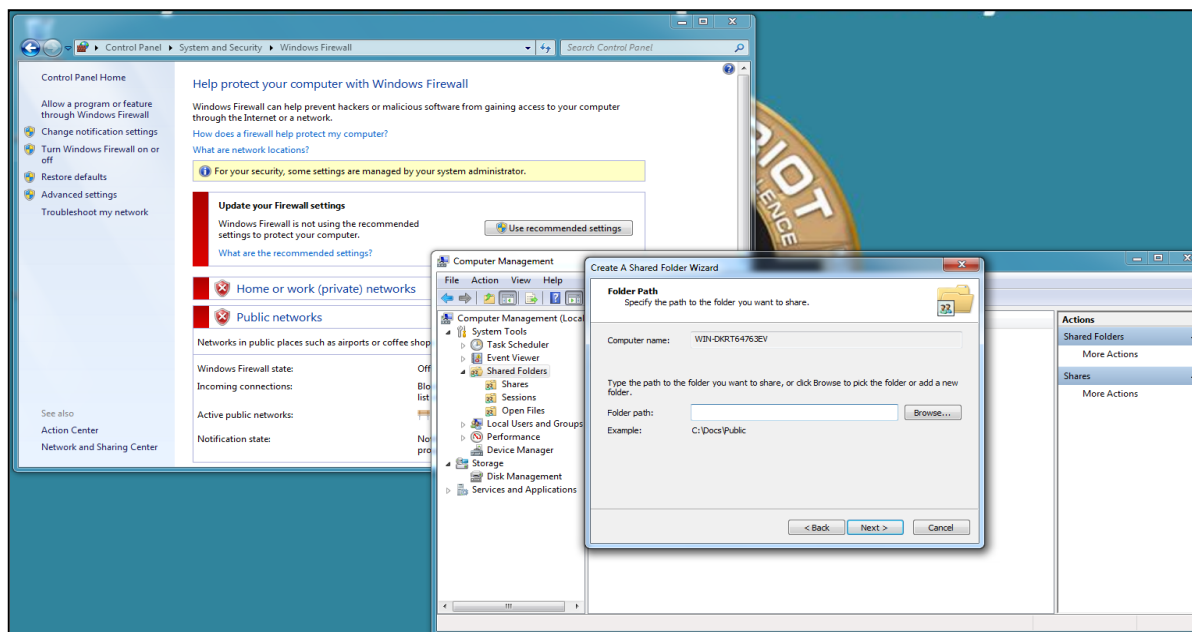
Courtesy of Texas A&M Corpus Christi

Scored Practice Images: Part 4

- When you have configured the vulnerabilities, go to File → Save Configuration

- Close the Front End Scoring Engine, delete the Front-End-ScoringEngine.exe from the Scoring Engine Tools folder, and empty Recycle Bin

- Move ScoringEngine.exe from Scoring Engine Tools folder to C:\CyberPatriot Score Report

- Delete Scoring Engine Tools folder and empty Recycle Bin

- Double-click ScoringEngine.exe (allow to run if prompted)
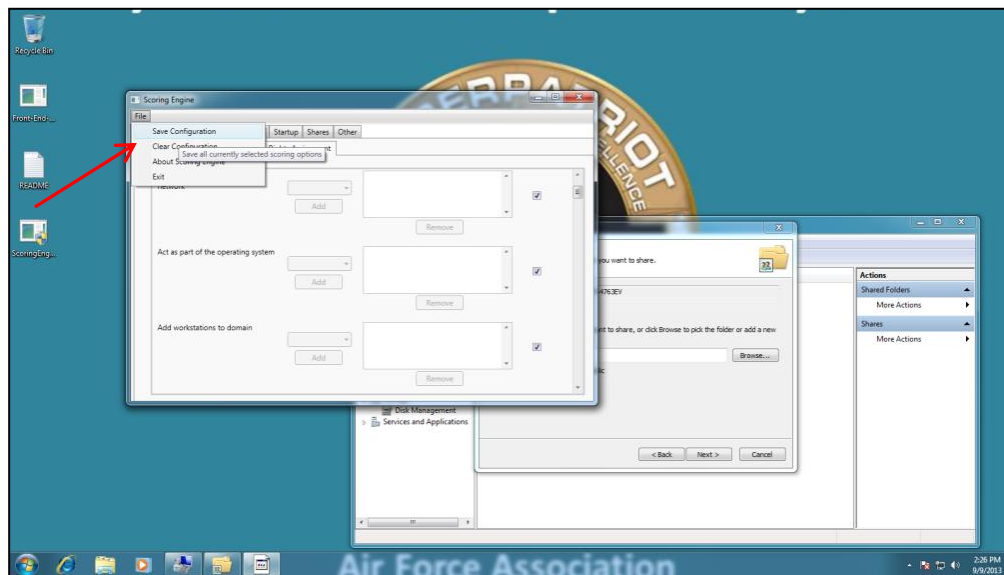
**Courtesy of
Texas A&M
Corpus Christi**

Scored Practice Images: Part 5

- Once the image preparation process is complete, an HTML shortcut called "Score Report" will appear on the desktop
- Score Report will provide a list of what vulnerabilities have been fixed (of the ones selected in setup)
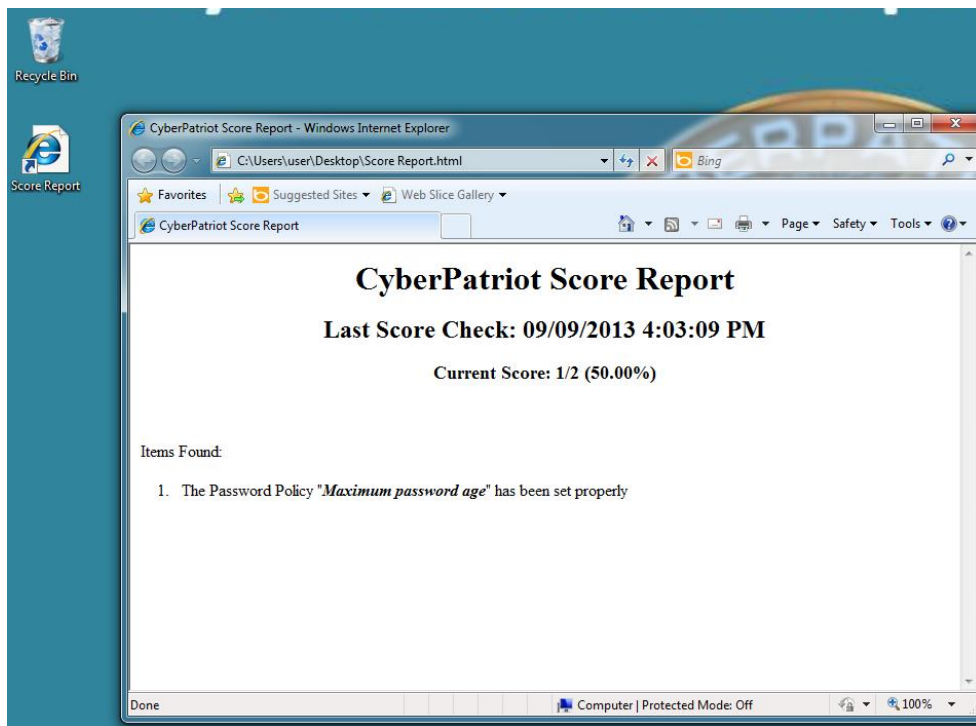
Courtesy of Texas A&M Corpus Christi

CyberPatriot

Introductory Training

Web Site

Training

- **Module 1: Introduction to Information Security**

- **Module 2: Virtual Machines**

- **Module 3: Windows Operating Systems – Basic Security**

- **Module 4: Threats and Vulnerabilities**

- **Module 5: How to Mitigate**

- **Module 6: Networking**

- **Module 7: Unix Operating Systems**

- **Module 8: Password Security**

www.uscyberpatriot.org   (Click *CyberPatriot V Tab* then *CyberPatriot Training Materials*)

How Does it Work?

Questions ?