

Introducing . . . FedVTE and FedCTE

Sponsored by:

**Cybersecurity Education and Workforce Development Program
(CEWD)
DHS National Cyber Security Division**

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Agenda

- FedVTE and FedCTE overview & how to get involved
***Benjamin Scribner**, DHS/NCSD/CEWD Lead: FedVTE and FedCTE*
- Q & A
***Jeanne Henifin**, FedCTE Project Coordinator, Department of State /Diplomatic Security Training Center*
***Hassan Gharekhanloo**, Chief of Corporate Systems, Department of State/Foreign Service Institute*



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COMING TO A PC NEAR YOU!!!!

First Quarter 2011

✓ **IT Security Courseware and Hands-on Labs, via the
Federal Virtual Training Environment
(FedVTE)**

– and –

✓ **Federal Cybersecurity Training Exercise Program
(FedCTE)**



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CNCI Education Initiative

Senior Steering Committee - *civilian, intelligence, defense, law enforcement*

DHS/Department of State Cybersecurity Training Partnerships:

- *Foreign Service Institute – FedVTE*
- *Diplomatic Security Training Center - FedCTE*



Drivers/Objectives:

- *Develop a framework for cybersecurity training/career development that keeps pace with technological change*
- *Focus on role-based, specialized skills of current cybersecurity personnel to expand the capabilities of today's workforce*



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Virtual Training Environment

Online, on-demand, and available to 125K Federal IT Security users!

Over 800 hours of role-based training

More than 75 hands-on virtual labs

The screenshot shows the VTE Player interface. The top left pane displays 'VTE Player' with the lecture 'IPv6 Transition Strategies' and a length of 5 slides (8 minutes). The top right pane shows a navigation menu with 'Demo', 'IPv6 Transition Options', 'IPv4 to IPv6 Transition: Mechanisms', and 'Transition Issues'. The main slide area is titled 'IPv4 to IPv6 Transition: Mechanisms' and is marked 'UNCLASSIFIED'. It contains three diagrams: 'Dual IP Stack Operating Systems and Applications' showing IPv4 and IPv6 enabled systems connected via routers and the Internet; 'IP Tunnels' showing IPv6 enabled systems connected via routers and the Internet; and 'Translation Gateways' showing an IPv6 enabled system connected to an IPv4 only system via a gateway. The bottom right pane shows a video player with a speaker and a transcript area.

The screenshot shows a remote desktop session titled '10.0.2.7 - Remote Desktop'. The desktop environment includes icons for 'My Documents', 'My Computer', 'My Network Places', 'Recycle Bin', 'Internet Explorer', and 'Connect to the Internet'. The taskbar at the bottom shows the Start button, system tray, and a taskbar with 'LAB: Multipatform Traffic Encryption with IPSec', 'Lab Manual', and 'Time Remaining: 2:54'. The system tray also shows 'I'm Done', 'Restart Lab', and 'Help'.

Hosting and help desk by Department of State, Foreign Service Institute

... and FULLY FUNDED!



Application, content, and instructor support by Carnegie Mellon University/Software Engineering Institute



Cybersecurity Training Exercises

Interactive, experiential training for Federal cybersecurity workforce

- Close training gaps
- More frequently refresh knowledge and skills
- Rapidly disseminate new techniques



- Foster cross-governmental collaboration
- Promote inter-Agency sharing of best practices

- Reinforce learning concepts
- Build skills and experience
- Provide a safe environment for experimentation



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FedVTE and FedCTE Status

Q3FY10: Established FedVTE on DOS FSI servers!

Limited availability Pilot

FedVTE

FY10

FY11

Establish office of primary responsibility at each Agency for FedVTE implementation

Establish Content Configuration Board

Q1FY11: Full deployment

- Cutover of DoD users (~30K)
- Initiate gradual roll-out to new users (~100K)

16 July, 2010: First FedCTE Pilot!

8, 9, & 18 November, 2010: Second FedCTE Pilot

FedCTE

FY10

FY11

Q1FY11: Develop FedCTE program plan

Government-wide rollout of FedCTE



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How to Get Involved

Help us [establish a point of contact](#) at your Agency

1. Select a point of contact from your office who...

- Can authorize access to IT security training
- Has visibility into your agency's IT security workforce
- CIOs and CISOs nominate points of contact from their organization by sending the full name(s) and contact information to FedVTE@dhs.gov

2. POCs will...

- Authorize distribution of FedVTE accounts
- Distribute calling notices for upcoming FedCTE events
- Help shape the program in support of agency needs
- Keep you informed as these programs evolve

NOTE: Each agency will have one primary point of contact, but can also use multiple secondary points of contact.



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For more information on the FedVTE or the FedCTE, contact FedVTE@dhs.gov or FedCTE@dhs.gov.



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BACKUP



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Operation Cyber Threat 1.0

July 16 2010

- Received more than 100 applications for 68 seats
- Participants from 25 agencies and 38 cities across the US
- Rave reviews in survey response
- Experiential and interactive training
- Shared best practices and developed inter-agency contacts
- Team building



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VTE Material and Usage

- **Course Highlights:**
 - CompTIA Security+ Prep
 - CompTIA Network+ Prep
 - CompTIA A+ Prep (Summer 2010)
 - (ISC)² CISSP Prep
 - Cisco CCNA
 - Cisco Security (Summer 2010)
 - Certified Ethical Hacker (Summer 2010)
 - Wireless Security
 - Incident Handling
- **Courses and Content Updated quarterly by SEI**
- **Lifetime Usage Statistics (to DoD)**
 - 445,874 hours of training delivered
 - That's almost 15,000 person-weeks of training!
 - 85,044 Labs delivered
 - 36,880 Users



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Federal Integration

- Learning Management System integration
 - VTE includes progress and completion reports
 - Variety of filters
 - Export to HTML, XML, CSV (through browser UI)
- Registration/Helpdesk
 - Registration through Agency POC
 - Technical and instructor support will be included as part of the FedVTE
- Custom Content
 - Short-term SEI requirement to assist with content
 - Contact FedVTE@dhs.gov to learn more



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