NATIONAL COLLEGIATE CYBER DEFENSE COMPETITION
CCDC Objectives

• Build a meaningful mechanism by which institutions of higher education may evaluate their programs.
• Provide an educational venue in which students are able to apply the theory and practical skills they have learned in their course work;
• Foster a spirit of teamwork, ethical behavior, and effective communication both within and across teams;
• Create interest and awareness among participating institutions and students;
• Develop and conduct a fair competition in order to crown a National Champion.
History of the CCDC

- A number of schools conduct contests or exercises either as part of a course or as an event outside of class. Some include other schools in their activities.
- In 2004 NSF funded a workshop to determine if it was feasible and if there was enough interest in developing a national collegiate competition.
- In 2005 the first CCDC Regional competition was held in San Antonio, Texas.
The 2006 National CCDC

- 4 Regional Competitions plus the Service Academy CDX
  - Mid-Atlantic Regional (Lancaster, PA): Millersville University
  - Midwest Regional (Urbana-Champaign, IL): Southern Illinois University
  - SE Regional (Kennesaw, GA): UNC-Charlotte
  - SW Regional (Corpus Christi, TX): UTSA
- A team from the service academies
The 2006 National CCDC

• Very similar to the event in 2005
  – Teams are presented their own working, but not necessarily secure, networks.
  – They are responsible for maintaining the network
    • Keep the services running
    • Respond to a variety of business “injects”
    • Operate in a “hostile environment”.
      – A Red Team consisting of industry professionals “plays the part” of attackers normally found on the Internet.

• The CCDC has been sponsored, in part, by The Department of Homeland Security.
The 2006 Sponsors

Gold Level Sponsors

CISCO SYSTEMS

INTERNET SECURITY SYSTEMS

TIPPINGPOINT

ISSA

NORTHROP GRUMMAN

Acronis

Silver Level Sponsors

ThinkGeek

Pizza Hut

O'REILLY

CoreTrace

(And the Department of Homeland Security)
Collegiate Cyber Defense Competition
Future of the CCDC

- Obtain corporate and other sponsors
- Increase the number of regional competitions to between 8 and 10 and add an international regional.
- UTSA will Conduct the national competition in 2007 and 2008
- Establish a governing body before the competition in 2007
  - Members of the body will attend the 2007 National Competition
  - The body will develop the governing rules for the CCDC.
- At the 2007 competition, announce secondary competitions to also be conducted at the 2008 National CCDC
  - E.G. a forensics challenge
- At the 2008 National CCDC the new rules will be presented and will be used for the 2009 Regional and National Competitions.
Questions?
Anne Arundel Community College • Baker College
Chattahoochee Technical College • Del Mar College
Community College of Baltimore County • DePaul University
George Mason University • Indiana Tech
Kennesaw State University • Madison Area Technical College
Moraine Valley Community College • Millersville University
Southern Polytechnic State University • Southern Illinois University
Texas A&M University • Towson University
The University of Texas at San Antonio • University of North Texas
University of Alabama, Birmingham • University of Louisville
University of Illinois at Urbana-Champaign • University of South Florida
University of North Carolina, Charlotte • Washtenaw Community
The Military Service Academies