



Integrating Digital Self Defense

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Overview

- Challenges
 - RIT
 - Hacking has changed
 - Students are targets
 - PII and Identity Theft
- Current Initiatives
 - Our goal
- Resources/Opportunities
- Suggestions for Integration

Challenges

Who is RIT?

- At least 3 different audiences
- Various degrees of internet knowledge
 - Not everyone is technology savvy
- 2500 new students each year; 15,000 total
- 3000 faculty and staff



Life on a University Network

The Good

- Power you'll find nowhere else
 - Internet2
 - Very High Speed Internet Connection
 - Wireless access
 - One of the most wired universities



Network Threats

The Bad

- College campuses make big targets
- RIT faces the same challenges as other large technology universities.
- Threats on our campus:
 - Password Crackers
 - Key Loggers
 - Harassment
 - Sniffing/ Network Monitoring
 - Network Worms
 - Hacking Attempts ft Rootkits
 - Physical Theft



External Threats

The Ugly

- Hacking Attempts
- Botnets/Zombie PCs
- Identity Theft
- Phishing



2004 was the first year that proceeds from cybercrime were greater than proceeds from the sale of illegal drugs ... over \$105 billion.

-Valerie McNiven, US Treasury - Cybercrime Advisor

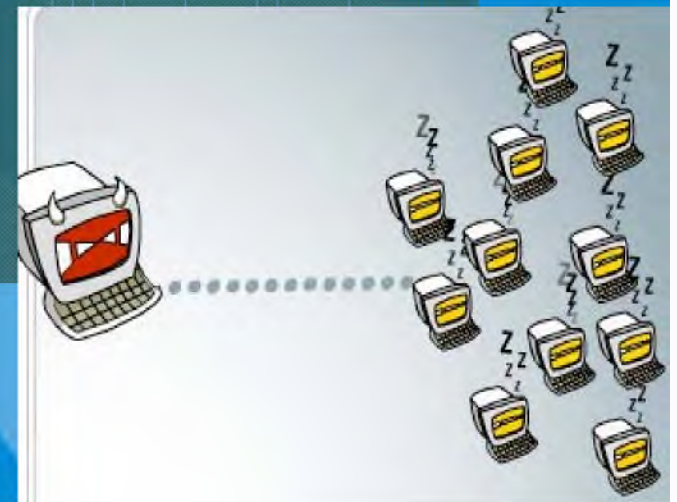
External Hacking Attempts

- Hackers are always looking for ways to access accounts
- Hacker's funding often comes from organized crime
- Hidden attacks



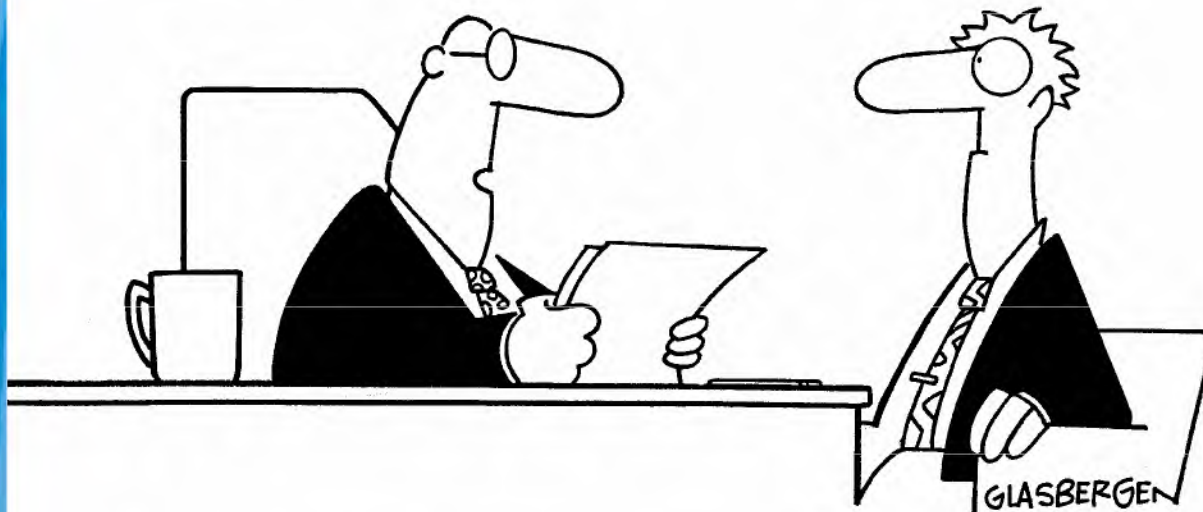
Botnets & Zombie PCs

- Botnets
 - Large numbers of computers that have been compromised with remote control software
 - Used to create and send out adware, spyware, spam, etc.



Identity Theft

Copyright 2003 by Randy Glasbergen.
www.glasbergen.com



“We’re looking for someone who can help us crack down on identity theft. Fill out this application and don’t forget to include your Social Security number, date of birth, phone number, home address and mother’s maiden name.”

15% of RIT students are victims of identity theft.

RIT Computer Use and Ethics Survey, 2003

Social Engineering

Not all threats to information security
rely on technical vulnerabilities

- No matter how well secured the computer, the human vulnerabilities will remain
- Social Engineering takes advantage of human vulnerabilities to perform an attack

We would like our students to:

Practice Digital Self Defense

- Understand the Dangers
- Follow RIT Security Standards
- Practice Ethical Computing
- Use Common Sense
 - Protect themselves and each other
 - Practice safe social networking

**digital
self
defense**



Protect yourself and everyone else

The RIT Standards



- Password Standard
 - Minimum Complexity
 - Password Change Cycle
- Desktop Et Portable Computer Security Standard
 - Anti-Virus
 - Patching
 - Firewall
 - Anti-Spyware

Paranoia or Common Sense?

Guard personal information!

- Even less sensitive information can be used by an attacker!
- Don't post it in public places.

Current Initiatives

GAIN

- Target audiences with different communications tools
- Orientation
- Facebook
- Events and contests

TRAIN

- Digital Self Defense workshops

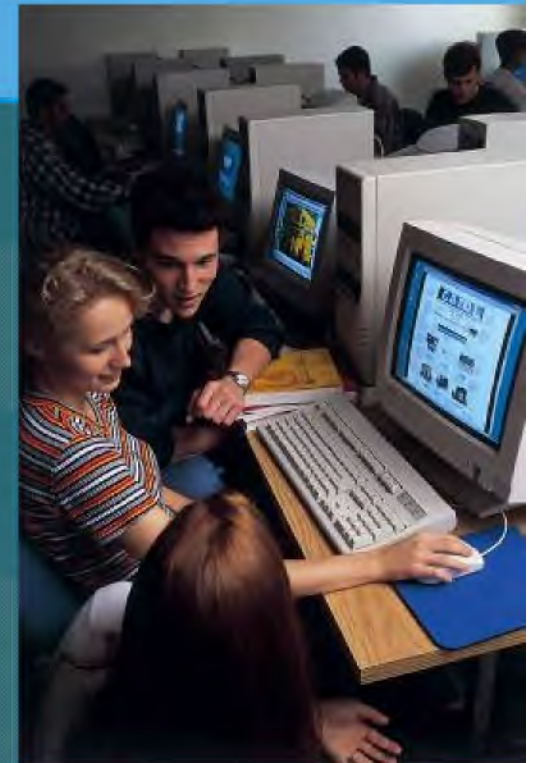
MAINTAIN

- Website and printed materials
 - Awareness materials
- Advisories and alerts

Orientation

Freshmen Orientation

- 90-minute time slot
- Three sections
 - Information Security
 - Copyright and Illegal File Sharing
 - Safe Social Networking
- Technical presenters partnered with Student Affairs



Facebook Presence

Information Security Facebook

- 19,000+ RIT Facebook accounts
- Set up as Group, not Profile
- Current issues
 - Safe social networking info
 - Threats and vulnerabilities



Profile edit Friends ▾ Inbox ▾ home account privacy logout

RIT Information Security [Browse more Organizations](#)



**INFORMATION
SECURITY**

Location: Rochester Institute of Technology, 156 Lomb Memorial Drive, Bldg 01-3300 Rochester, NY, 14623
Phone: 585-475-4123

Information edit

Website: <http://security.rit.edu>

Mini-Feed Displaying 2 stories See All

April 1

 RIT Information Security added new photos to RIT Information Security. 3:05pm
Added to: **RIT Information Security - 8 Photos**

Edit Page
Edit Admins
Send an Update to Fans
Promote Page with an Ad
View Insights

Share +

Fans 6 of 67 fans See All

 Sam Stockham
 Denise Sullivan
 Paul Lepkowski

 Ihudiya Finda Ogburu
 Dimitri Vastakis
 Mike Saffran

Photos edit X 1 album Add Photos

 **RIT Information Security**
Created April 1

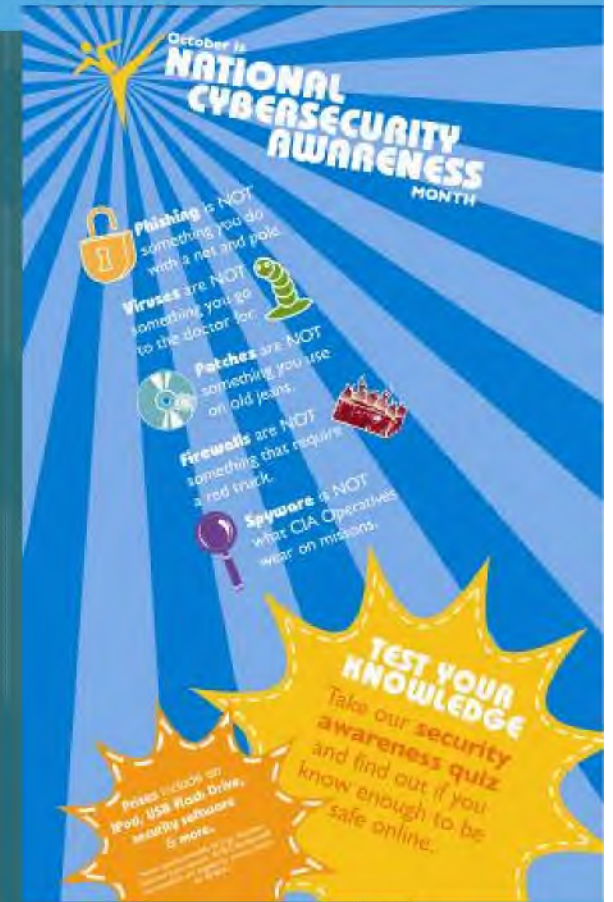
Special Events

- National Cyber Security Awareness Month Speakers
 - Technical and non-technical
- DHS MS-ISAC National Webcast Initiative



Awareness Contests

- Support desktop and password standards
- Email and poster marketing campaign
- Prizes
- Awareness website
- Quiz
- Contest drawing



Digital Self Defense

Three Workshops

- DSD 101—Introduction
- DSD 102—Desktop Security Software
- DSD 103—Information Handling



Digital Self Defense 101

Introduction to Digital Self Defense

- General overview of how to practice safe computing and protect yourself and others.
- Online threats
- Balance technical solutions and common sense

Digital Self Defense 102

Desktop Security Software

- Detailed look at software tools needed to meet the requirements of the Desktop Security Standard
- Software simulation allows users to experience installation and use of security software

Digital Self Defense 103

Information Handling

- Protect important information belonging to you or RIT.
- Impact of legislative mandates
- Identify RIT Confidential information
- Information Lifecycle
 - Creation, Transfer, Storage, Disposal

Information Security Website

- Alerts and Advisories
- Standards
- User Guides
- Event Announcements

R-I-T FINANCE & ADMINISTRATION
F&A LEADERSHIP | EMPLOYMENT SERVICES | FINANCIAL SERVICES | BUSINESS SERVICES | RISK MANAGEMENT

F&A HOME | SEARCH | A-Z INDEX | DIRECTORIES | MWIT

INFORMATION SECURITY


[F&A Home](#) > Information Security

- Awareness
- Digital Self Defense
- Events

Resources

- Alerts/Advisories
- Standards
- User Guides & Info
- About Us/Contacts

Information Security



INFORMATION SECURITY

Welcome to the RIT Information Security Office Home Page. We're here to help keep the RIT community safe and secure from Internet and other threats to your information security.





Follow the links on the left:

- Current Threats ([Alerts/Advisories](#), [Awareness](#))
- How to protect yourselves and others ([Digital Self Defense](#), [User Guides and Info](#))
- Requirements for using your computers and other devices at RIT ([Standards](#))

Follow the links on the right to:

- Award-winning interactive [Awareness Website](#)
- [Digital Self Defense](#) workshops
- Our [Facebook Group](#)

October is National Cyber Security Awareness Month. Visit [Stay Safe Online](#) for more information.



Awareness Brochures

- Support RIT requirements
- Discuss common issues and concerns
 - Desktop Standard
 - Passwords
 - Wireless
 - Instant Messaging
 - Avoiding Identity Theft



Advisories and Alerts

- Email to students, staff, and faculty when absolutely necessary
 - Viruses and other malware
 - Spoofing, phishing and other online scams
 - Patching
- Message Center



Ethical Computing

According to a recent study on computer use & ethics at RIT:

- 32% of computer crime victims on campus knew their attackers
- Of that 32%, over half said their attacker was either a friend or acquaintance.

RIT Computer Use and Ethics Survey, 2003



Will I Be a Victim?

- Almost 15% of RIT students report being harassed online.
- 2 out of 3 students at RIT will be a victim of at least one form of computer abuse or crime.
- 1 out of 3 students at RIT will be a victim of multiple forms of computer abuse or crime.

- *RIT Computer Use and Ethics Survey, 2003*

Internal Resources

- * RIT web resources
 - Information Security Website
 - * Awareness Site
(<http://security.rit.edu/contest/animation.html>)
 - * <http://security.rit.edu/guides.html>
 - * <http://security.rit.edu/standards/index.html>
 - Information Handling (e-Learning Zone)
 - * www.rit.edu/~ekfront
 - Awareness videos
 - * <http://security.rit.edu/awareness.html>
- * Guest speakers

External resources

- Educause Videos

- <http://www.researchchannel.org/securityvideo2007/>

- Educause 2009 Security Video and Poster Contest

- <http://www.educause.edu/15676>

Course Integration Ideas

- What I've done
 - Effective Technical Communication (0535.403.01.20073)
 - Cyber Self Defense (4050.220.01 .20072, 20073)

Effective Technical Communication

- Evaluate materials
 - Brochures
 - Information Handling WBT
- Attend events

Cyber Self Defense

- Book Discussion Groups
- Information Handling WBT
- Attend events

Questions?



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<http://security.rit.edu>