DSD 101: Tips, Tools, and Best Practices to Stay Safe Online

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You’re a Target. Why?
Top online safety practices?

http://googleonlinesecurity.blogspot.com/2015/07/new-research-comparing-how-security.html

Protecting Your Computer

- Anti-virus
- Firewalls
- Patching and updates
- Passwords/passphrases

https://www.rit.edu/security/content/desktop-and-portable-computer-security-standard
(Additional standards/requirements https://www.rit.edu/security/content/requirements-facultystaff)
Note that Secunia is not for individual use on RIT computers.
Passwords/Passphrases

Through 20 years of effort, we’ve successfully trained everyone to use passwords that are hard for humans to remember, but easy for computers to guess.

http://xkcd.com/936/  https://www.rit.edu/security/content/password

How Strong is Your Password?

GRC’s Interactive Brute Force Password “Search Sparta” Calculator

Enter and add your test password in the field above while viewing the analysis below.

Brute Force Search Space Analysis:

Search Space Depth (Alphabet): none
Search Space Length (Characters): no characters
Exact Search Space Size (Count): 0
Search Space Size (as a power of 10): 0.00 x 10^n

Time Required to Exhaustively Search this Password’s Space:

Online Attack Scenario:
(Assuming one thousand guesses per second) —
Offline Fast Attack Scenario:
(Assuming one billion guesses per second) —
Massive Cracking Array Scenario:
(Assuming one hundred billion guesses per second) —

Note that typical attacks will be inside password guessing trends to, at most, a few hundred guesses per second.

(The Haystack Calculator has been viewed 2,305,342 times since its publication.)

https://www.grc.com/haystack.htm
Passphrases

It was a dark and stormy night

becomes

ItwasaDark215&StormyNight

Length > complexity

Password Managers

LastPass ****
Two-Factor Authentication

Two Factor Authentication

www.turnon2FA.com
Mobile Devices, Smartphones, Tablets

- Protection commensurate with risk of information accessed or stored
- Storage of private information is prohibited

https://www.rit.edu/security/content/desktop-HTMLStandard

Mobile Security Apps

- Lookout Security & Antivirus (Android, iOS)
- Avast Mobile Security (Android)
- Avast SecureMe (iOS)
- Google Authenticator (Android, iOS)
- Find My iPhone (iOS)
- iVault (iOS)
What about Physical Security?

If you see something, say something
If something does not look right, let us know.

Call OC Transpo Security at 741-2479

Protecting your identity

PHISHIN’
DON’T TAKE THE BAIT!
How Many Compromised Accounts?

Lures belong in your tackle box, NOT your inbox.

Fraud, Scams, and Malware

- Employee Information
- Invoices
- Attachments

Phishing scam focuses on the basics to harvest business credentials

Don’t get hooked!
NEVER respond to e-mail requests for your password.

Protecting Your Information

https://www.rit.edu/security/content/information-access-protection-standard

Use strong passwords and ALWAYS update your computer.
DON’T BE FOOLED.
The bad guys are getting smarter.
Never assume privacy

Learn and set social network privacy settings

Privacy Settings
Login Alerts

Security Settings

Login Alerts
Get an alert when someone logs into your account from a new device or
ip address.

- Notifications
  - Get notifications
  - Don’t get notifications

- Email
  - Email login alerts to ben.vena@gmail.com,
    ben.vena@ucdavis.edu, ben.vena@alumni.ucd.edu,
    thorn@caltech.edu.
  - Don’t get email alerts.

- Text messages
  - Text login alerts to (855) 354-6247
  - Don’t get text alerts

Login Approvals
Use your phone as an extra layer of security to keep other people from
logging into your account.

Code Generator
Use your Facebook app to get security codes when you need them.

App Passwords
Use special passwords to log into your app, instead of using your
Facebook password or Login Approvals code.

Trusted Contacts
Pick friends you can call to help you get back into your account if
you get locked out.

Who’s following you?

Tagged photos on Instagram can be seen by?
Protecting Your Reputation

Google My Account Dashboard

Control, protect, and secure your account, all in one place.

- Sign-in & security
  - Control your password and account access settings.
  - Signing in to Google
  - Device activity & notifications
  - Connected apps & sites
- Security Checkup
  - Protect your account with a few actions.
  - GET STARTED
- Personal info & privacy
  - Manage your visibility settings and the data we use to personalize your experience.
  - Your personal info
  - Activity controls
  - Ads settings
  - Account overview
  - Control your credit
- Account preferences
  - Set language, accessibility, and other settings that help you use Google.
  - Language & input tools
  - Accessibility
  - Your Google Drive storage
  - Delete your account or services

SET UP TODAY

DON'T LET YOUR PAST HAUNT YOUR FUTURE, PLAY IT SMART ONLINE.

Ask yourself if your posting or something you want future employers or friends to see.
Visit www.wisc.edu/securer to learn more about social networking tips.
Google Alerts

Monitor use of your name

Google Reverse Image Search

- See how often that LinkedIn profile photo is being used.
- Go to LinkedIn profile.
- Right click on image. Copy image address.
- Click on camera icon in Google search window.
- Paste in image address.
Questions (and maybe some answers)

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http://twitter.com/RIT_InfoSec

Resources

• RIT Information Security Standards
  http://www.rit.edu/security
• Google Research on User vs Expert Practices
  http://googleonlinesecurity.blogspot.com/2015/07/new-research-comparing-how-security.html