

Security TipsSafeguarding Research Data

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Who has access to your data:

- Faculty
- Staff
- Administrative personnel
- Students
- Fellow collaborators

Why should we safeguard our data?

- Because education institutions should do more to protect research data
- Because our intellectual property is our lifeblood
- Because we need to keep our information security at the forefront of our minds
- Because disasters / theft / espionage happens
- Because sometimes, bad things happen to good people

What should we consider safeguarding?

- Intellectual Property (Project info, lab detail, results)
- PHI (Protected Health Information)
- Legally restricted information (SS#, Credit card #, address, etc)
- Confidential information (budget information, internal department information, etc.)

How should we protect our data?

Encryption

- Protect your Mac or PC using Full Disk Encryption (Filevault 2, Pointsec, Bitlocker)
- Protect your mobile data on Flash Drives/USB storage/ Smartphones (Media Encryption and Port Protection)
- Protect your data in transit (HTTPS, FTPS, SFTP, encrypted DVD's)

Passwords

- Change your passwords often (at least 2x/yr) to protect account integrity.
- Use pass phrases (easy to remember) mix in #'s, special characters, case
- Update systems Keep systems (desktop/servers) patched to mitigate new vulnerabilities found

How should we protect our data - continued

- While BYOD (Bring Your Own Device) is allowed, you should ensure it meets URMC minimum security guidelines
- Back up...Back up! If your data is important to you, please back up your data reliably so that a recovery can happen in the case of data loss.
- Utilize our in-house network storage solutions (current mapped network drive, SONAS etc)

In Summary

- Maintaining the security of research data is a responsibility we ALL share
- Imagine that the data you are exposed to is your own PERSONAL data. Would you handle it any differently?
- While Information Technology (Academic IT, University IT, or ISD) provides the support and guidelines for safeguarding data, it is ULTIMATELY the responsibility of the individual to safeguard their data
- Never hesitate asking for more information/assistance. We are just a phone/email away