

## Informed Consent (2/2)

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- “Consent”
  - Must have option to permit/refuse action, without coercion
  - Not always possible (legally incompetent, or unable to give consent)
    - Must have high likelihood of success
    - Must be in best interest of patient
    - Likely that the patient will be thankful if successful
    - Violating informed consent must be last resort
- Principles applied to SA tasks
  - People should understand rules under which they are operating
    - E.g., SLA specifies maintenance windows

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## Professional Code of Conduct

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- Example code from SAGE: System Administrators' Guild
  - Not
    - a set of enforceable laws
    - an enumeration of procedures
    - all-encompassing
    - an enumeration of sanctions and punishments
  - Reinforces need for SAs to maintain a high standard of professionalism

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## Informed Consent (1/2)

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- Take cues from the medical community
  - “Informed” + “Consent”
- “Informed”
  - Know of options
  - Possible benefits and drawbacks of the options
  - Various probabilities of success
  - Explained so that the person is able to understand



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## SAGE Code of Ethics (3/3)

- A system administrator must maintain an exemplary work ethic.

- A sysadmin can have a significant impact on an organization – a high level of trust is maintained by exemplary behavior

- At all times system administrators must display professionalism in the performance of their duties.

- Need to be professional, even when dealing with management, vendors, users, or other sysadmins

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## Network/Computer User Code of Conduct



- Need an Acceptable Use Policy
  - When is personal use of equipment permitted?
  - What types of personal use are forbidden?
    - Can you start a business?
    - Can you surf adult sites?
  - What if the equipment is at your home?
- Might combine with a monitoring/privacy policy
  - Explain that monitoring might happen as part of running the network/server
- There are many archived policies that are useful as starting points to develop new ones

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## SAGE Code of Ethics (1/3)

- The integrity of a system administrator must be beyond reproach.

- SAs come in contact with privileged information regularly
- Need to protect integrity and privacy of data
- Must uphold law and policies as established for their systems

- A system administrator shall not unnecessarily infringe upon the rights of users.

- No tolerance for discrimination except when required for job
- Must not exercise special powers to access information except when necessary

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## SAGE Code of Ethics (2/3)

- Communications of system administrators with all whom they may come in contact shall be kept to the highest standards of professional behavior.

- Must keep users informed of computing matters that might affect them
- Must give impartial advice, and disclose any potential conflicts of interest

- The continuance of professional education is critical to maintaining currency as a system administrator.

- Reading, study, training, and sharing knowledge and experiences are requirements

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# Copyrights

- AUP should require members to abide by current copyright laws
  - “Borrowing” non-freely redistributable software or content is usually illegal
  - Companies caught using pirated software have significant legal and financial liabilities
  - Pirated software can also be a source of viruses
  - **Sysadmins are often blamed for copyright violations found on their networks (permitted or installed)**
- Best approach is to make it easy for users – use open source, or get broad site licenses for other packages

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# Privileged Access Code of Conduct

- Many users need privileged access
  - Sysadmins, programmers of device drivers, software installers, etc.
- Such people need a special code of conduct
  - Since privileges can be abused
- Such users should sign a statement of having read the policy, and be given a copy
- Sysadmins should track those who have privileges on which systems
- Such access should expire unless renewed by signing again

## sudo's reminders

- 1) respect the privacy of others
- 2) think before you type

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# Working with Law Enforcement

- Sysadmins are often contacted to help with investigations into computer-related crime
  - Also harassment issues, or need for records
- Need a procedure (prevent panic, significant mistakes)
  - Often work with a manager or legal department
  - Keep records of all communication and work performed (e.g., commands typed)
  - Must verify identity of investigator before anything else
    - Social engineering is often a successful attack method!
- Working with law enforcement can take a lot of time
  - Might need to make policies to reduce likelihood of need

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# Privileged access code points

- Privileged access comes with responsibility to use it properly
- Access to be used only when necessary (and management will describe such uses)
- Acknowledge that mistakes happen, and encourage procedures (such as backups) to minimize damage
- Procedures to deal with situation in which SA gets information that would not otherwise be public
  - E.g., learn about illegal or prohibited activities, or privileged info (pending sale of business)
- Warning about possible penalties for violations, including termination
- Legal requirements may also apply (e.g., SEC, FCC rules)

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# Being Told to Do Something Illegal/Unethical

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- What do you do when
  - You overhear (or read) about
    - A co-worker dealing drugs from the office?
    - Plans for sabotaging the company?
    - Stealing equipment and reselling via online auction?
    - Having an affair with the boss?
  - You are asked to read someone else's email?
    - By a non-SA colleague
    - By your manager

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# Protecting Yourself

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- Have organizational policies that you can point to, and get guidance from
- Verify the (unreasonable) request
  - Perhaps you mis-heard it?
  - **Get request in writing**
- Verify with your manager (get permission)
- Make logs of all requests and communication
- Have a witness
  - Someone to watch what you are doing and agrees with your actions
- Contact organizational ombudsman, security, police if appropriate

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