

CSC252 – UNIX

SYSTEM ADMINISTRATION



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THE BALANCE

- Authority and Responsibility
 - vs.
- Service and Cooperation

POLICIES

- Create
 - Advertise
 - Train
-
- Are there any policies documented at KU related to system administration?

USER NEEDS

- Users must get job done
 - Easily
 - Effectively

- Constraints
 - Security
 - Other users' needs
 - Capabilities of system

RESPONSE

- User is consuming too much CPU resources
- What is appropriate response?

PLANNED PROCEDURES

- Regularly change root password
- Regular backups
- Log out and clear terminal screen
- Test changes several times, then implement
- Stick to policies

BASIC STRATEGY

- Plan
- Make it reversible
- Make changes incrementally
- Test, test, test
- Know how things really work
- Document

SYSTEM ADMINISTRATOR TASKS

- Account maintenance
- Backups
- Restoring files
- Answering user questions
- Monitor and tune system
- Maintain printers and print queues
- System security
- Installing software
- Installing patches

SYSTEM ADMINISTRATOR TASKS (CONT.)

- Monitoring disk space
- Correcting network problems
- Troubleshooting system and user problems
- Installing new equipment (systems, memory, disk drives, printers, etc)
- Add new systems to the network
- Writing scripts to automate tasks
- Maintain documentation
- Other duties as necessary/assigned

SYSTEM CONFIGURATION

- Configuration files
 - Kernel
- Boot process
 - Document
- When might there be a need for system reconfiguration?

SYSTEM MAINTENANCE

- What are some system maintenance tasks?
- May need to consult support organization
- When might this be necessary?

ADMINISTRATION DOMAINS

- All servers share the same configuration directory, regardless of the domain to which they belong.
- Servers in two different domains may use two different user directories for authentication and user management.
- The configuration directory administrator has complete access to all installed Directory Servers, regardless of the domain to which they belong.
- Each administration domain can be configured with an administration domain owner. This owner has complete access to all the servers in the domain but does not have access to the servers in any other administration domain.
- The administration domain owner can grant individual users administrative access on a server by server basis within the domain.