

User Management

What is a user?

/etc/shadow - Know the format of a password

/etc/passwd

/etc/group

What is nsswitch and /etc/nsswitch.conf?

What component is used for authentication?

What component is used for account information look-ups?

What are the common user shells?

Pluggable Authentication Modules

What data structure does PAM use?

What is the purpose of [success=1]?

Know pam_unix.so, pam_warn.so

What do the PAM control types do? IE: required, requisite, optional, and sufficient

What do the pam authentication modules do? IE: auth, session, password, and account

How is PAM different than nsswitch?

How do you configure a /etc/pam.d/ file?

Software Management

What are the high-level package managers for Debian and RHEL?

Configuration Management

What is the programming paradigm?

What are the common elements?

Networking

Who manages the Internet?

What are the Protocol Data Units for the different layers?

What are the differences between TCP and UDP?

What is Metcalfe's Law?

What ip commands can you use to bring a link online, assign an IP and default route?

Python socket programming.

Physical Networking

What cabling can be used with Ethernet?

What are the properties of fiber optics?

Web Hosting

What is the role of each HTTP verb? GET, POST, PUT, DELETE and OPTIONS

What is a URL? What parameters can be passed to a web server via a URL?

What are some command-line applications for HTTP?

What are the HTTP response codes? What do they mean?

NGINX and Apache details.
What is Virtual Hosting?