

instigate-training-center.am

Agenda

- Manage network connections
- 'ifconfig' command
- Proxy settings
- GUI applications
- ssh daemon and ssh client
- vncserver and vncviewer



Manage Network Connections

- In Gnome available network connections can be accessed by System → Preferences → Network connections
- Wired and wireless connections
- IPv4 settings
 - Automatic (DHCP)
 - Manual
 - Address
 - Netmask
 - Gateway
- The network can be restarted by invoking command '/etc/init.d/networking restart'



'ifconfig' command

- ifconfig [interface]
 - e.g. ifconfig eth0
- ifconfig interface [up | down]
 - e.g. ifconfig eth0 down
- ifconfig addr [netmask addr]
 - e.g. ifconfig 192.168.1.100 netmask 255.255.255.0
- Shortcuts
 - ifup bring a network interface up
 - ifdown take a network interface down



Proxy settings

- In Gnome the proxy settings can be configured by System → Preferences
 → Network Proxy (or by invoking 'gnome-network-properties' command)
- export http_proxy='http://ip_address:port'
- Configuration files are in
 - \$HOME/.gconf/system/http_proxy/%gconf.xml and \$HOME/.gconf/system/proxy/%gconf.xml
 - gconftool -R /system/http_proxy
 - gconftool --set /system/proxy/mode --type string manual
 - gconftool --set /system/http_proxy/use_http_proxy --type bool true
 - gconftool --set /system/http_proxy/host --type string 192.168.1.1



Network GUI applications

- System → Administration → Network Tools or gnome-nettool
 - Devices
 - Ping
 - Netstat
 - Traceroute
 - Port Scan
 - Lookup
 - Finger
 - Whois
- System → Preferences → Remote Desktop



ssh daemon and ssh client

- /usr/sbin/sshd OpenSSH SSH daemon
- /usr/bin/ssh OpenSSH SSH client
 ssh [-XC] [user@]hostname (e.g. ssh student@192.168.1.100)
- Configuration files
 - /etc/hostname
 - /etc/hosts
 - /etc/hosts.allow
 - /etc/hosts.deny
 - ~/.ssh/known_hosts
- Other commands
- sshpass [-XC] -p password [user@]hostname
 - scp file [user@]hostname:path



vncserver and vncviewer

- vncserver
 - vncserver [:display#] [-geometry WxH] [-depth 8|15|16|24]
 - vncserver -kill :display#
- vncviewer [-shared] [-bgr233] [user@]hostname:display#
 - o e.g. vncviewer -bgr233 192.168.1.100:2

