Lab 2. Minix, Server and Git

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I. Minix 3

• How to manage software?

Install: pkgin install Remove: pkgin remove Update: pkgin update

• What is the purpose of the commands if config, adduser, and passwd?

ifconfig: display the IP address and network information

adduser: add new user

passwd: reset the password for the user

II. Working on a remote Server

- Setup an SSH server on Minix3 pkgin install openssh
- What is the default SSH port?
 Port 22
- List and explain the role of each file in the \$HOME/.ssh directory
 id_rsa: stores the private key to pair with the public key
 id_rsa.pub: stores the public key to verify the connection with remote servers
 known hosts: records the public keys that have been accessed
- Briefly explain how authentication works in SSH The host system generates the public key and private key, and the remote server Minix is configured using the public key. Then the Minix can allow the host owning the public key to access, and the role of private key is to verify that the public key is owned by your host.
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III. Basic git

git help: display the function of different commands

git init: create an empty Git repository or reinitialize an existing one

git checkout: switch branches git push: update remote repository

git pull: fetch from and integrate with another repository git merge: join two or more development histories together

git add: add files to the Git

git diff: show changes between commits

git tag: create, list, delete or verify a tag object

git log: show commit logs

git fetch: download objects and repository from another repository

git commit: record changes to the repository git clone: create a repository into a new directory git reset: reset current HEAD to the specified state