LESSON 11



UNIX

UNIX Admin

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UNIX OS

LESSON 11

Users, Networking and Administration Across UNIX

Adding users on every UNIX, ifconfig and netstat, NFS, SSH, cron and logs

Adding Users Everywhere

System	Add user ahmad
Linux · Solaris · HP-UX	useradd -m -s /bin/bash ahmad
FreeBSD	pw useradd ahmad -m -s /bin/sh
AIX	mkuser home=/home/ahmad ahmad
macOS	sudo sysadminctl -addUser ahmad -password -

- Every UNIX keeps users in slash etc slash passwd, but the tools differ. Linux, Solaris and …
- The fields are always the same: name, user ID, group, home directory and shell.

01

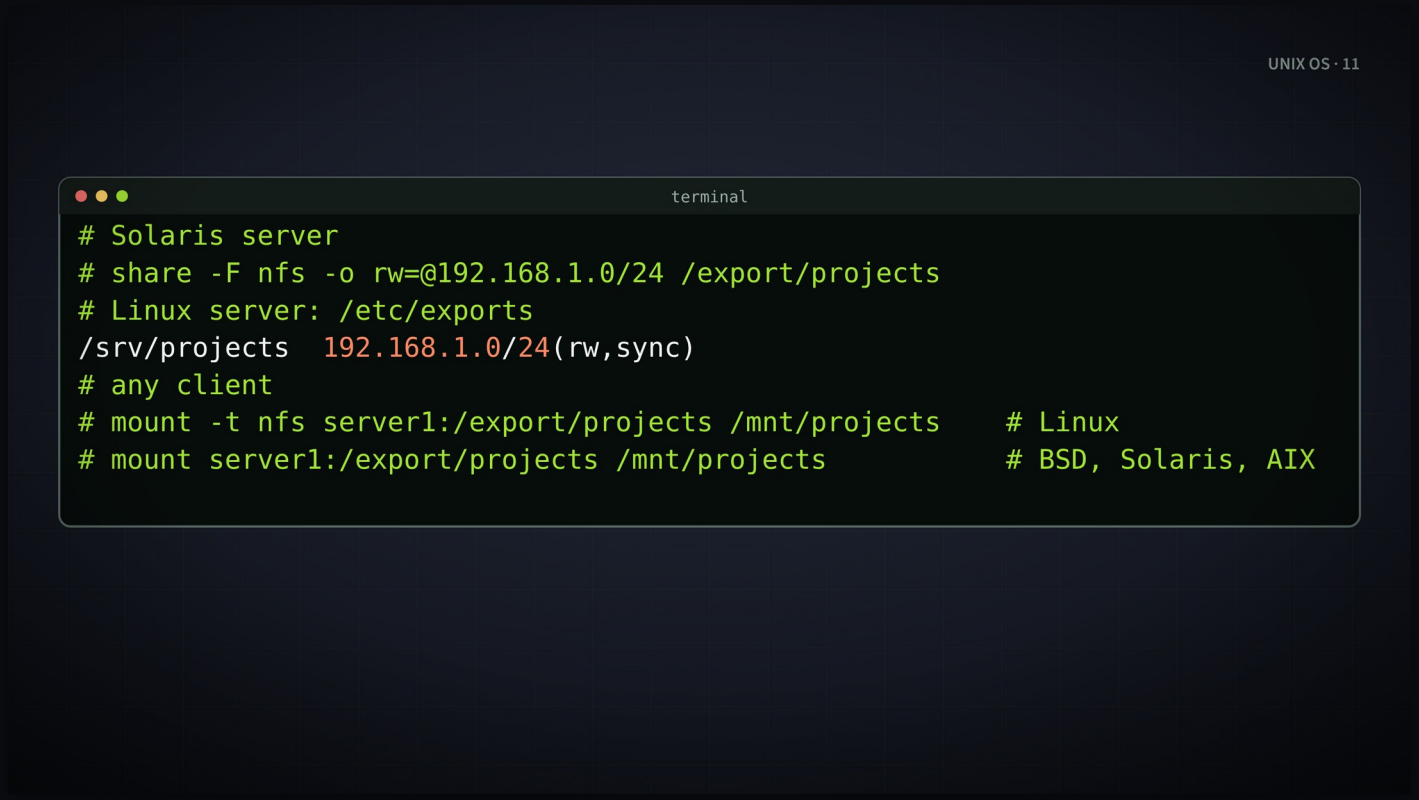
ifconfig and netstat



- ifconfig is the classic UNIX network tool, still standard on BSD, macOS, Solaris and AIX. …
- Linux replaced them with ip and ss, but knowing both lets you work anywhere.

02

NFS: Sharing Files Across UNIX



- The Network File System, created by Sun in 1984, lets UNIX machines mount each other's …
- The server exports a directory, and clients mount it.

03

SSH, cron and Logs

System	Main logs
Linux	/var/log/messages · journalctl
Solaris	/var/adm/messages
AIX	/var/adm/syslog · errpt -a
HP-UX	/var/adm/syslog/syslog.log
macOS	log show · /var/log/system.log

- OpenSSH runs on every modern UNIX, so ssh, scp and key-based login work the same …
- Logs traditionally go through syslog into slash var slash log or slash var slash adm. AIX …

04

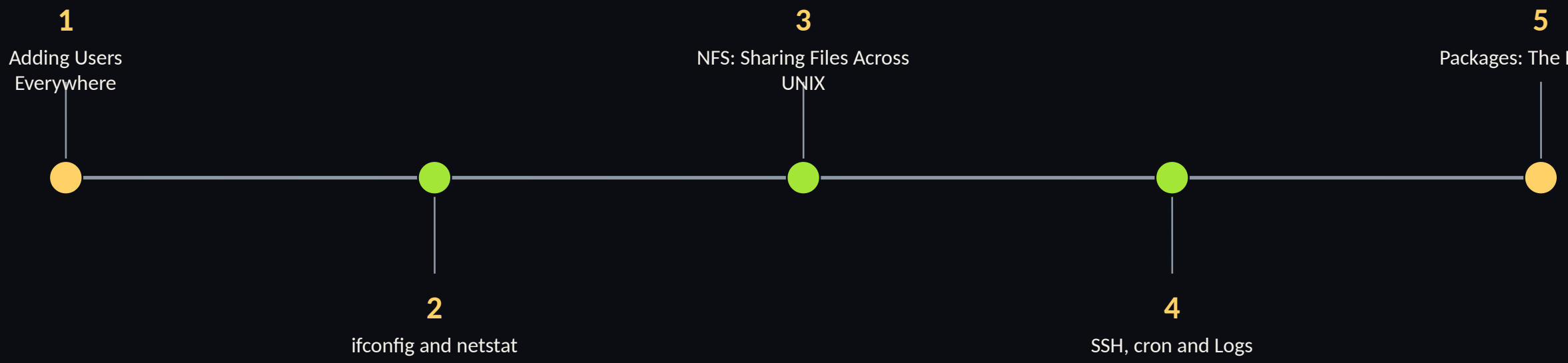
Packages: The Big Table

System	List installed	Install
Solaris 11	pkg list	pkg install
AIX	lslpp -l	installp · dnf (AIX Toolbox)
HP-UX	swlist	swinstall
FreeBSD	pkg info	pkg install
macOS	brew list	brew install

- Every UNIX has its own package tool. Here is how to list and install software on each one.
- With this table and the man pages, you can administer any UNIX you meet.

05

Lesson Map


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ifconfig and netstat
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NFS: Sharing Files Across UNIX
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SSH, cron and Logs
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Packages: The Big Table

Sources and Further Reading

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terminal

```
# Solaris server
# share -F nfs -o rw=@192.168.1.0/24 /export/projects
# Linux server: /etc/exports
/srv/projects  192.168.1.0/24(rw,sync)
# any client
# mount -t nfs server1:/export/projects /mnt/projects    # Linux
# mount server1:/export/projects /mnt/projects           # BSD, Solaris, AIX
```

Thank you for watching

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