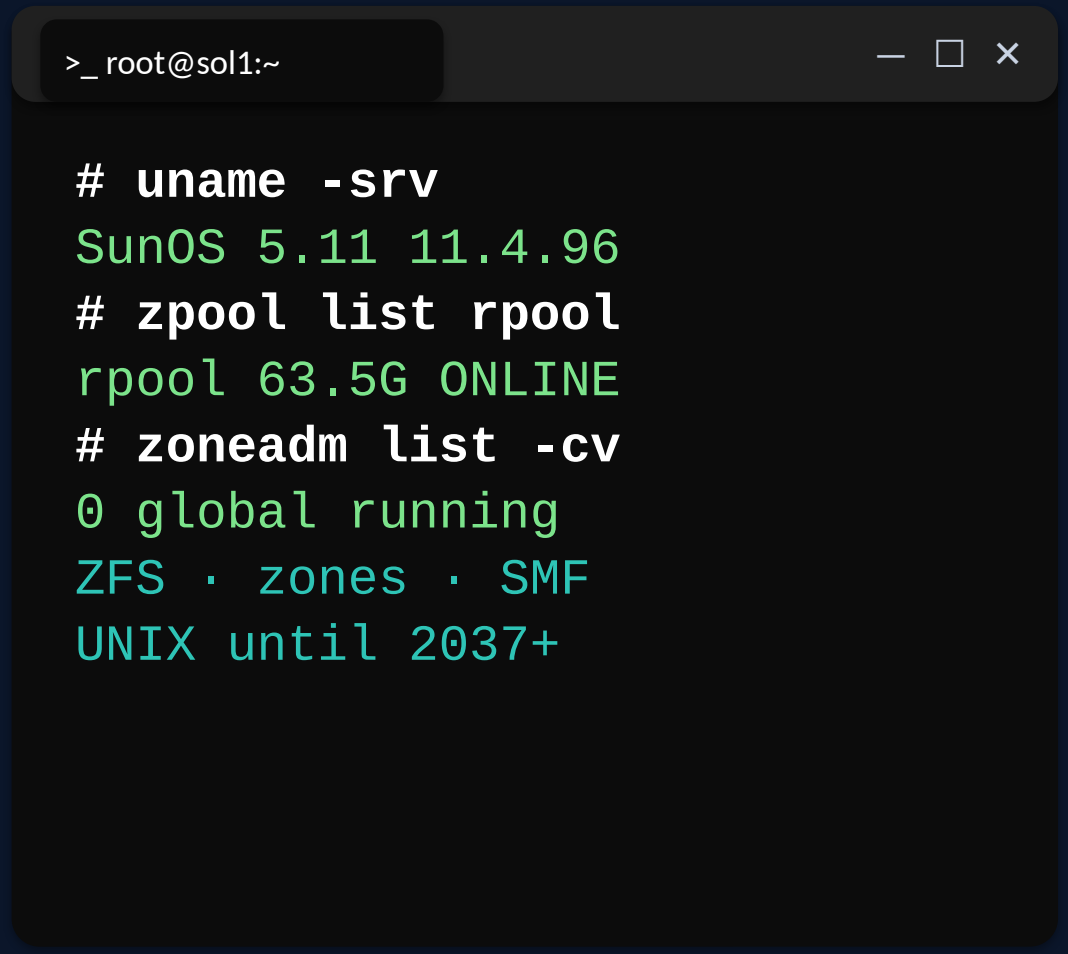


LESSON 2 OF 12

Oracle Solaris 11.4

ZFS · Zones · SMF · LDoms · OLVM

Installing Solaris 11.4 CBE: Text Installer, VirtualBox & Automated Installer

Full Course · Solaris 11.4 SRU96 · OVM (Nov 2026)

What You Will Learn in Lesson 2

- Install images: text installer, live media, Automated Installer
- VirtualBox VM settings for Solaris 11.4 x86
- The text installer: disk, network, time zone, users
- First boot: root is a role, the first user gets it
- Post-install checks and VirtualBox Guest Additions
- Enterprise installs: AI server, manifests, unified archives
- Installing on SPARC: OpenBoot (ok prompt)

Choosing an Install Image

Image	Use it for
Text Install ISO (x86 / SPARC)	Servers, minimal VMs — our lab (solaris-large-server group)
Live Media ISO (x86)	GNOME desktop, try before install
Automated Install (AI) boot image	Network installs driven by an AI server
Unified Archive (.uar)	Clone or recover a whole system or zone
Pre-built VM template	Quick start on VirtualBox / OCI where offered
CBE packages	Free; update from the CBE release repository

VirtualBox VM Settings

Setting	Value
Type / Version	Solaris · Oracle Solaris 11 (64-bit)
Memory / CPUs	4096 MB (2 GB minimum) · 2 vCPUs
Disk	40 GB VDI, dynamically allocated (ZFS rpool)
Adapter 1	NAT — internet for pkg
Adapter 2	Host-only vboxnet0 — 192.168.56.51 static
Firmware	BIOS or EFI (both supported on x86)
Optical	Attach sol-11_4-cbe-text-x86.iso (name may vary)

The Text Installer

```
Oracle Solaris 11.4 Text Installer
  1  Install Oracle Solaris
  2  Install Additional Drivers
  3  Shell
  4  Terminal type (currently xterm)
  5  Reboot
Disks: c1t0d0  40.0GB  Use the whole disk (GPT)
Network: sol1 · Manually  net0 (NAT DHCP)  net1 192.168.56.51/24
Time zone: America / Los_Angeles     Locale: en_US.UTF-8
Users: root password · user student (gets root role)
Installing... 100%   Installation complete.  F8 Reboot
```

First Boot: root Is a Role

```
sol1 console login: student
Oracle Corporation      SunOS 5.11      11.4    November 2026
student@sol1:~$ su -                  # works: student has the root role
root@sol1:~# roles student
root
root@sol1:~# exit
student@sol1:~$ sudo -l | tail -1  # sudo is also configured for the first user
student@sol1:~$ pfexec svcs -x     # run with profile rights
# ssh root@sol1  -> denied: a role cannot log in directly
```

Post-install Checks

```
root@sol1:~# uname -a ; cat /etc/release | head -2
root@sol1:~# pkg info entire | grep -i version
root@sol1:~# zpool status rpool ; zfs list -r rpool | head
root@sol1:~# svcs -x                    # no output = all services OK
root@sol1:~# ipadm create-ip net1
root@sol1:~# ipadm create-addr -T static -a 192.168.56.51/24 net1/v4
root@sol1:~# ipadm show-addr
root@sol1:~# pkg publisher              # solaris  origin  (CBE repo)
root@sol1:~# pkg install --accept system/virtualbox/additions   # if offered
```

Enterprise Installs: Automated Installer

Piece	Role
AI server	installadm service: boot images + DHCP + manifests
AI manifest (XML)	Disks, packages, publishers, boot environment
SC profile (XML)	System config: hostname, IP, users, time zone (sysconfig create-profile)
Criteria	Match clients by MAC, IP range, architecture, memory
Unified Archive	archiveadm create: clone/recovery image of system or zones
IPS repo mirror	Local copy of the package repository for fast installs

SPARC: OpenBoot and Unified Archives

```
{0} ok printenv auto-boot?
{0} ok devalias
{0} ok boot cdrom                    # install from DVD/ISO (via ILOM)
{0} ok boot net:dhcp - install       # Automated Installer over the network
{0} ok boot -L                       # list boot environments

root@sol1:~# archiveadm create -r /var/tmp/sol1-recovery.uar
root@sol1:~# archiveadm info /var/tmp/sol1-recovery.uar
```

Summary and Homework

- Text installer for servers; live media for desktops; AI for fleets
- VM: 4 GB RAM, 2 vCPU, 40 GB disk, NAT + host-only
- root is a role: log in as your user, then su - or pfexec
- Check: pkg info entire, zpool status, svcs -x, ipadm
- AI = installadm + manifests + SC profiles; archiveadm for clones
- Homework: install sol1, set 192.168.56.51, record pkg info entire

Thank You! 🙏

Free videos & PDFs: www.MyWebUniversity.com

Slides for this lesson: MyWebUniversity.com/presentations

YouTube: @MyWebUniversity · @MyWebUniversity-Dari

Wahidullah Lutfy — Founder and Director of IT of MyWebUniversity, and CS teacher

Book: The Direct Path to Linux Ubuntu (Amazon · Barnes & Noble)

Learn it, then pass it on.