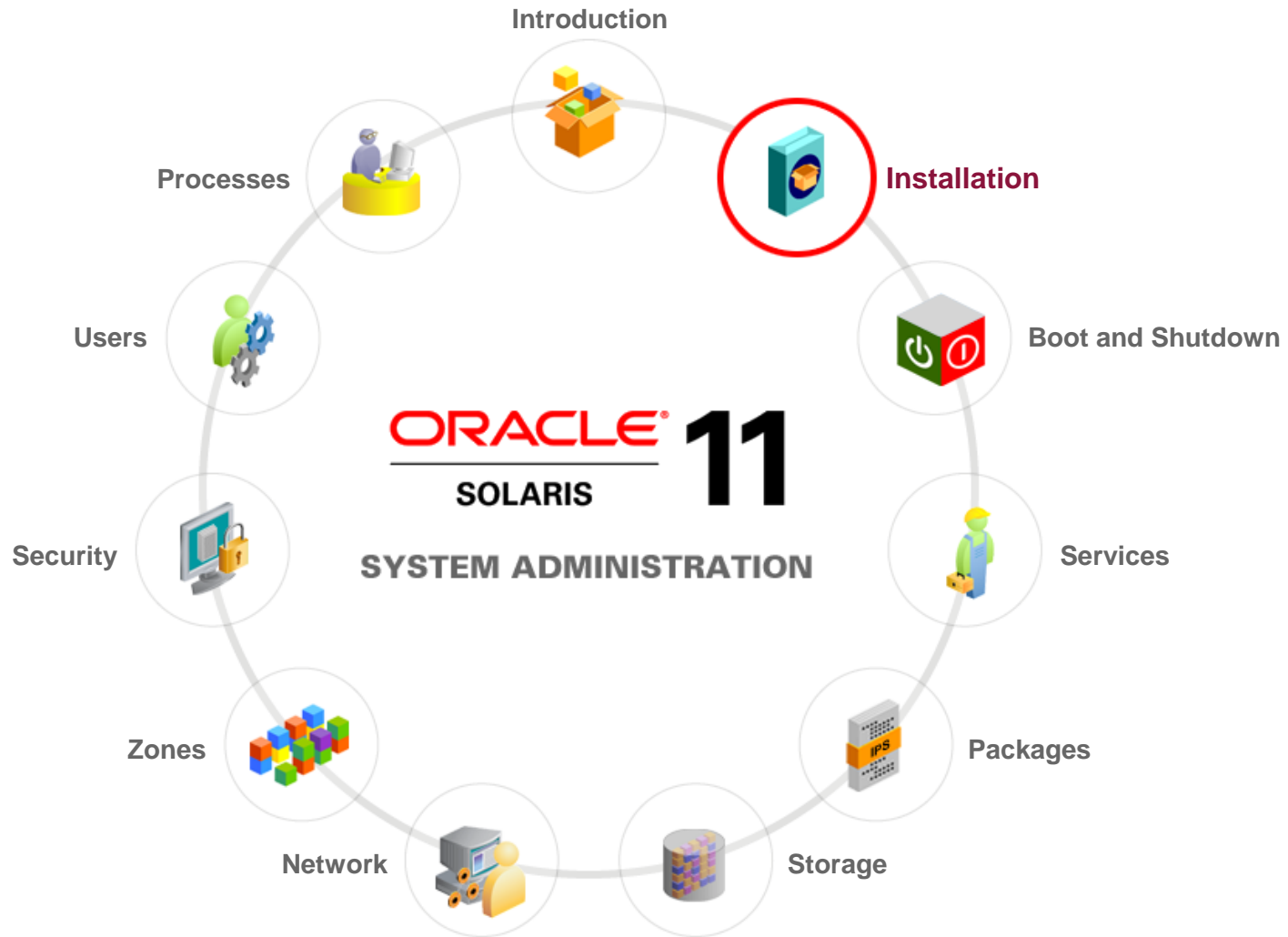


Installing the Oracle Solaris 11 Operating System

Workflow Orientation



Objectives

After completing this lesson, you should be able to:

- Describe the Oracle Solaris 11 OS
- Implement a plan for an Oracle Solaris 11 OS installation
- Install the Oracle Solaris 11 OS by using the Live Media installer
- Install the Oracle Solaris 11 OS by using the text installer
- Verify the installed OS

Agenda

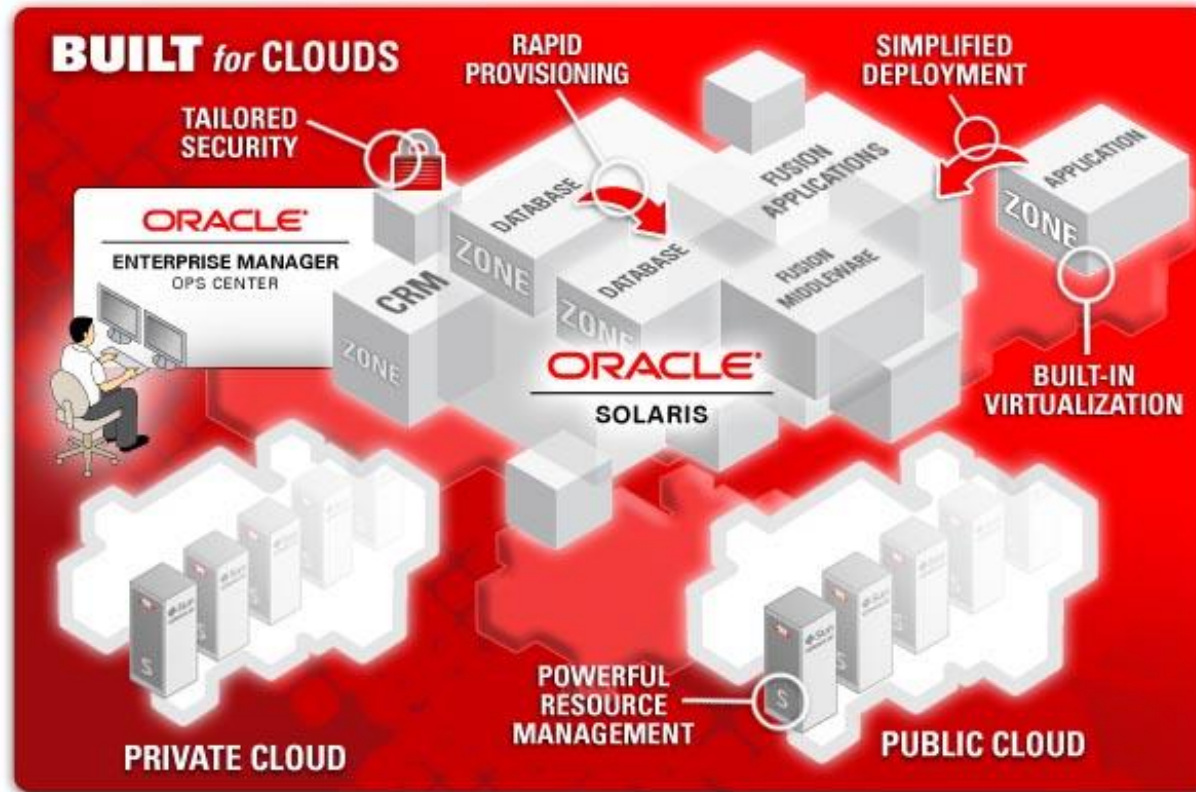
- **Introduction to the Oracle Solaris 11 OS**
- Planning for an Oracle Solaris 11 OS Installation
- Installing the Oracle Solaris 11 OS by Using the Live Media Installer
- Installing the Oracle Solaris 11 OS by Using the Text Installer
- Verifying the OS Installation

Introduction to the Oracle Solaris 11 OS

The Oracle Solaris 11 OS:

- Is supported by over 11,000 applications
- Provides a complete, reliable, secure, and simple solution for deploying your enterprise-grade clouds
- Provides centralized cloud management with complete OpenStack distribution
- Delivers unique features to increase performance, streamline management, and automate support for Oracle deployments

Key Benefits of Oracle Solaris 11



Key Benefits of Oracle Solaris 11

- Simplified administration
- Built-in virtualization
- Scalable data management
- Advanced protection
- Zero-to-complete cloud in minutes with Oracle Solaris and OpenStack
- Greater flexibility with independent and isolated Kernel Zones virtualization
- Fast and agile application provisioning with Unified Archives
- Conformation with service-level agreements by using application-driven and software-defined networking
- Risk reduction with comprehensive compliance checking and reporting

Platforms Supported by Oracle Solaris 11 OS

Architecture	Systems	Virtualization	OS Virtualization
SPARC	M6-32 M5-32	Dynamic Domains, Logical Domains	Oracle Solaris Zones
	T-Series	Oracle VM for SPARC formerly known as LDoms	
x86	X86 (64-bit processor)	Oracle VM for x86	

Note: Third-party virtualization offerings from vendors, including VMware, Windows, and Red Hat, are also supported.

Integration of Oracle Solaris 11 with the Oracle Stack

- Record performance in running Oracle Database, Oracle Middleware, and Oracle Applications
- New high-performance, super scalable virtual memory
- Reduced down time with new Optimized Shared Memory interface
- Kernel Mode Acceleration for Oracle Real Application Clusters (Oracle RAC)
- Faster transparent hardware cryptography acceleration
- Unique observability with Oracle Solaris DTrace
- High availability and disaster recovery across the Oracle stack
- Integrated development environment



Agenda

- Introduction to the Oracle Solaris 11 OS
- **Planning for an Oracle Solaris 11 OS Installation**
- Installing the Oracle Solaris 11 OS by Using the Live Media Installer
- Installing the Oracle Solaris 11 OS by Using the Text Installer
- Verifying the OS Installation

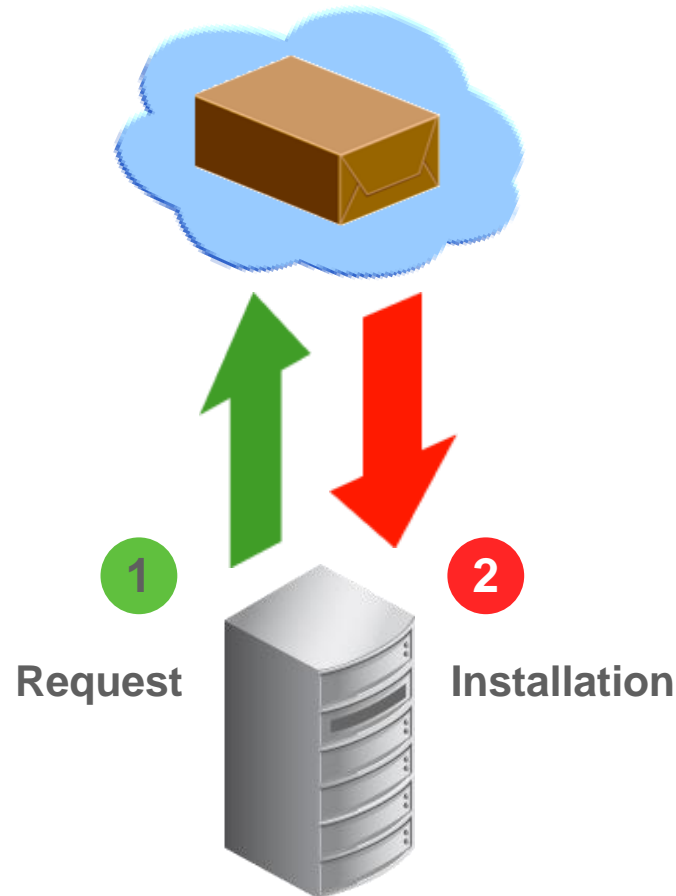
Planning for an Oracle Solaris 11 OS Installation

- Planning is required to make sure that the operating system is:
 - Installed properly
 - Configured to support business needs
- Planning addresses and answers questions such as:
 - How many users will you need to support?
 - What applications will you be running?
 - What type of network will you be using?
 - What are your data storage needs?
 - What are your hardware needs?

Methods of Installing the Oracle Solaris 11 Operating System

	Interactive		Automated
	Live Media	Text Installer	Automated Installer (AI)
SPARC		✓	✓
x86	✓		✓
Single system	✓	✓	✓
Multiple-client systems			✓




Installation Process



Oracle Solaris 11 OS download website:

<http://www.oracle.com/technetwork/server-storage/solaris11/downloads>

Identifying Pre-Installation Tasks

	Identify system requirements.
	Identify additional installation considerations.
	Check device drivers.



Best practice: Always review installation documentation and release notes carefully before performing an installation.

Identifying System Requirements

Installer	Package Group	Memory	Recommended Minimum Disk Space
Live Media	<code>solaris-desktop</code>	2 GB	13 GB
Text	<code>solaris-large-server</code>		9 GB

Identifying Additional Installation Considerations

- The Live Media ISO image installer is only for 64-bit x86 platforms.
- For SPARC-based systems, use the Text or Automated Installer.
- Interactive installers can perform an initial installation on:
 - The whole disk
 - The Oracle Solaris x86 partition
 - The SPARC slice (text installer)
- **(Caution):** The installation overwrites all existing data on the targeted disk.

Checking Device Drivers

- Device drivers enable communication between the operating system and the system's devices.
- Take a few minutes to verify that your system has the appropriate drivers required to manage each of its devices.
 - Before or after an OS installation, use the Oracle Device Detection Tool to determine whether a device driver is available.
 - After the OS installation, use Oracle Device Driver Utility (DDU) to obtain information about devices and their drivers.

Agenda

- Introduction to the Oracle Solaris 11 OS
- Planning for an Oracle Solaris 11 OS Installation
- **Installing the Oracle Solaris 11 OS by Using the Live Media Installer**
- Installing the Oracle Solaris 11 OS by Using the Text Installer
- Verifying the OS Installation

Installing the Oracle Solaris 11 OS by Using the Live Media Installer

USB keyboard

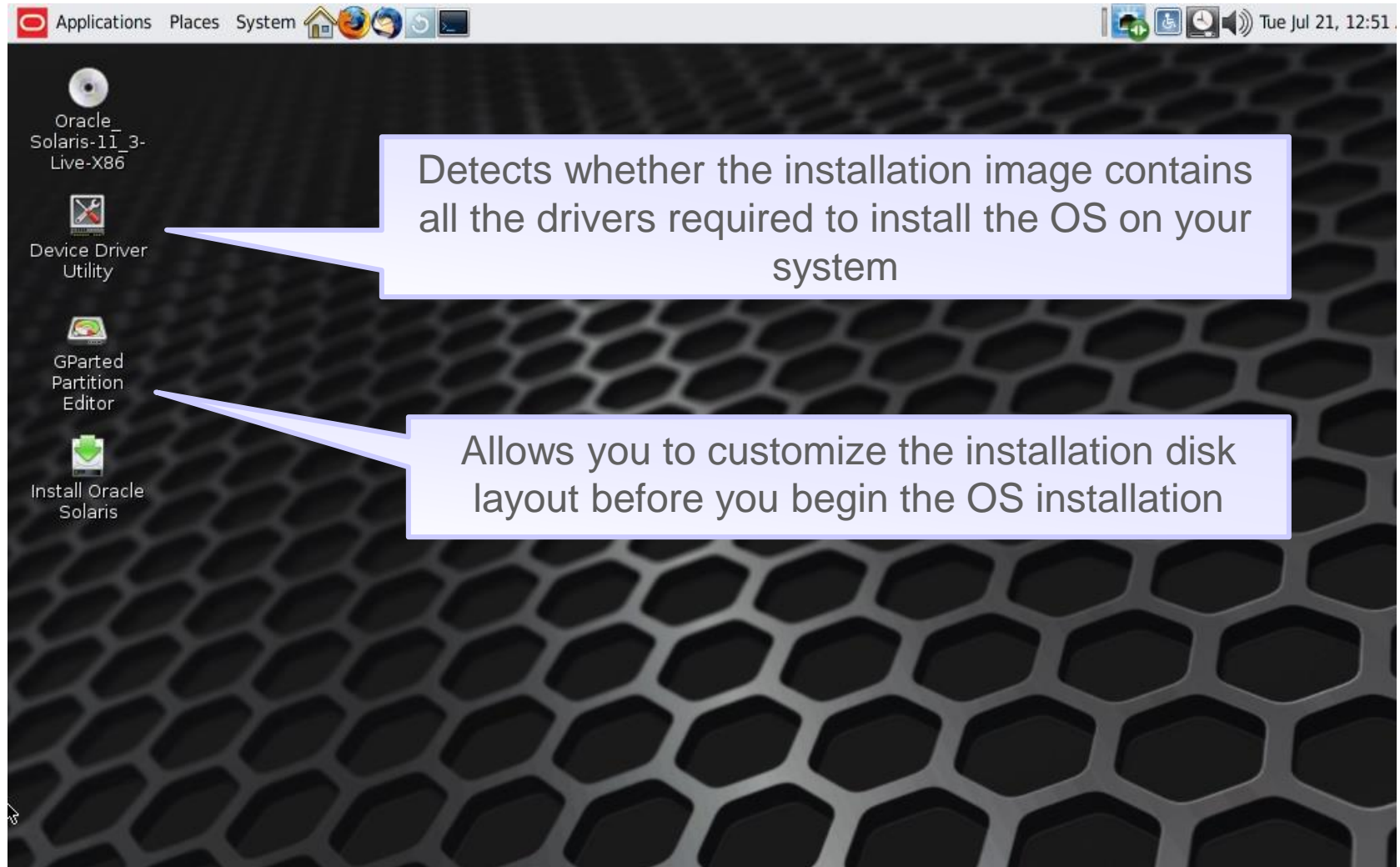
- | | |
|-----------------------|-------------------------|
| 1. Arabic | 15. Korean |
| 2. Belgian | 16. Latin-American |
| 3. Brazilian | 17. Norwegian |
| 4. Canadian-Bilingual | 18. Portuguese |
| 5. Canadian-French | 19. Russian |
| 6. Danish | 20. Spanish |
| 7. Dutch | 21. Swedish |
| 8. Dvorak | 22. Swiss-French |
| 9. Finnish | 23. Swiss-German |
| 10. French | 24. Traditional-Chinese |
| 11. German | 25. TurkishQ |
| 12. Italian | 26. UK-English |
| 13. Japanese-type6 | 27. US-English |
| 14. Japanese | |

To select the keyboard layout, enter a number [default 27]:

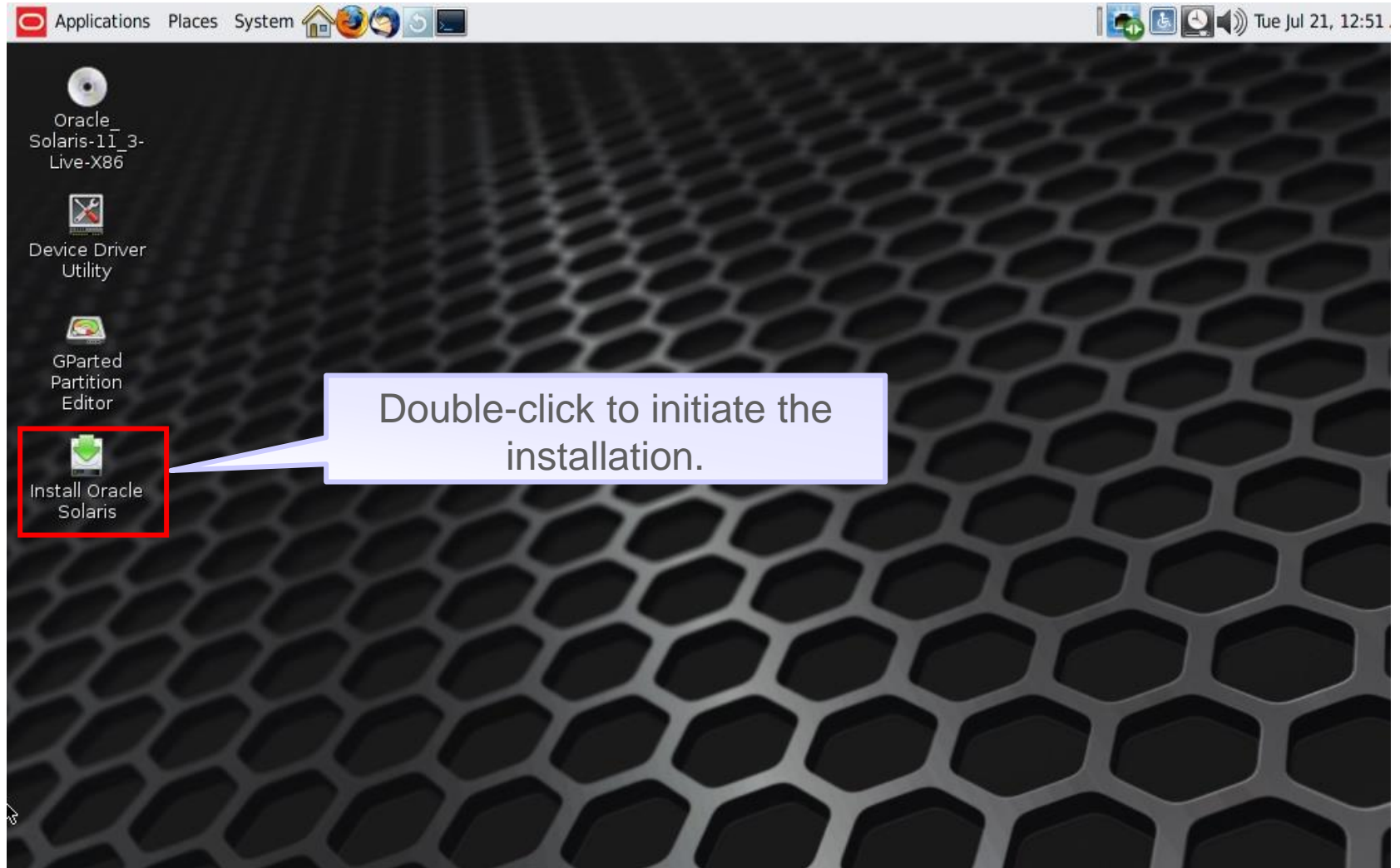
Selecting the Language

```
1. Chinese - Simplified
2. Chinese - Traditional
3. English
4. French
5. German
6. Italian
7. Japanese
8. Korean
9. Portuguese - Brazil
10. Spanish
To select the language you wish to use, enter a number [default is 3]: █
```

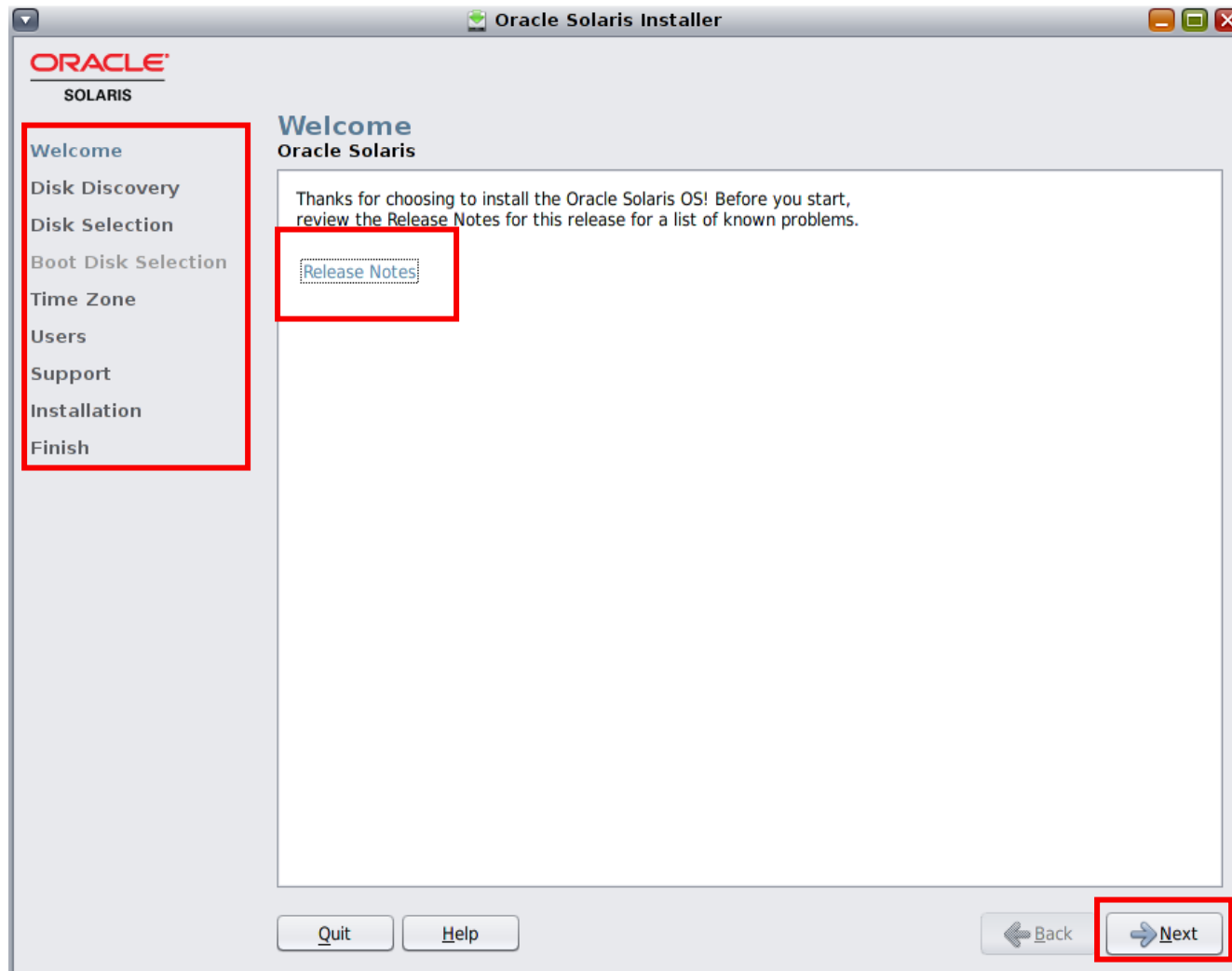
Introducing the Live Media Desktop



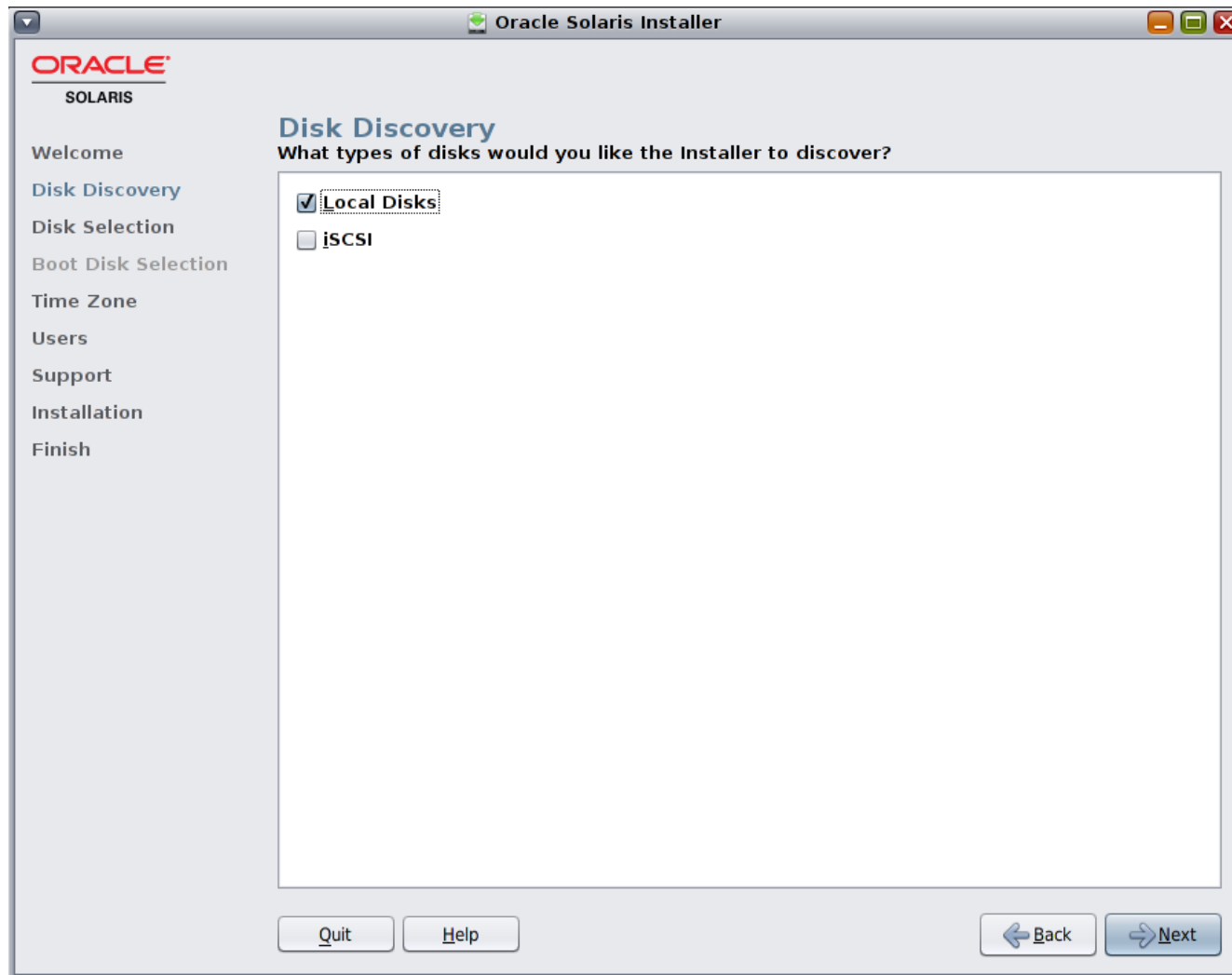
Initiating the Installation with Live Media



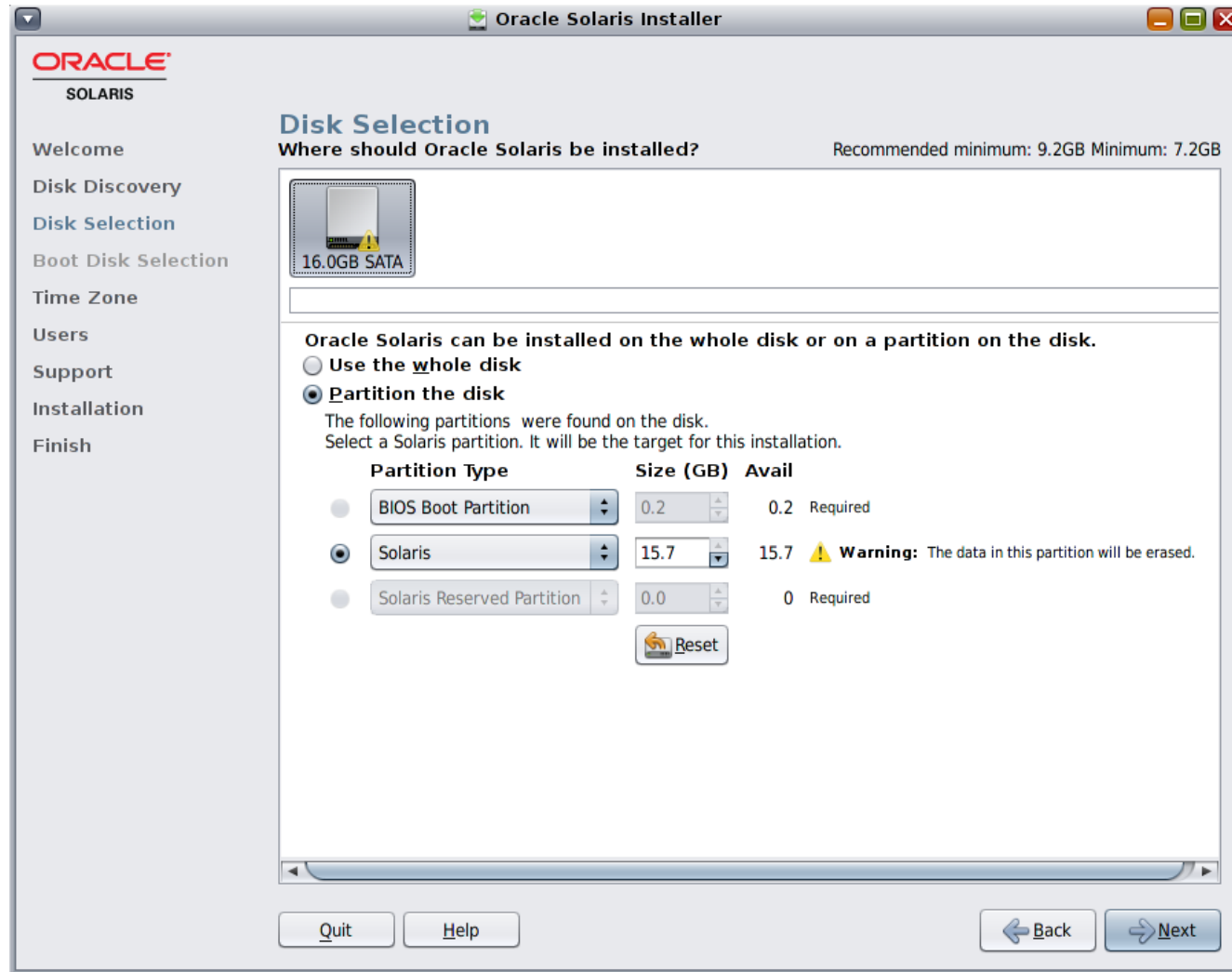
Welcome Screen



Disk Discovery



Selecting a Disk



Setting the Time Zone, Date, and Time


Oracle Solaris Installer

ORACLE
SOLARIS

Welcome
Disk Discovery
Disk Selection
Boot Disk Selection
Time Zone
Users
Support
Installation
Finish

Time Zone, Date and Time

Select a city near you on the map or set your time zone below, then set the date and time.



Region: GMT/UTC

Location: ---

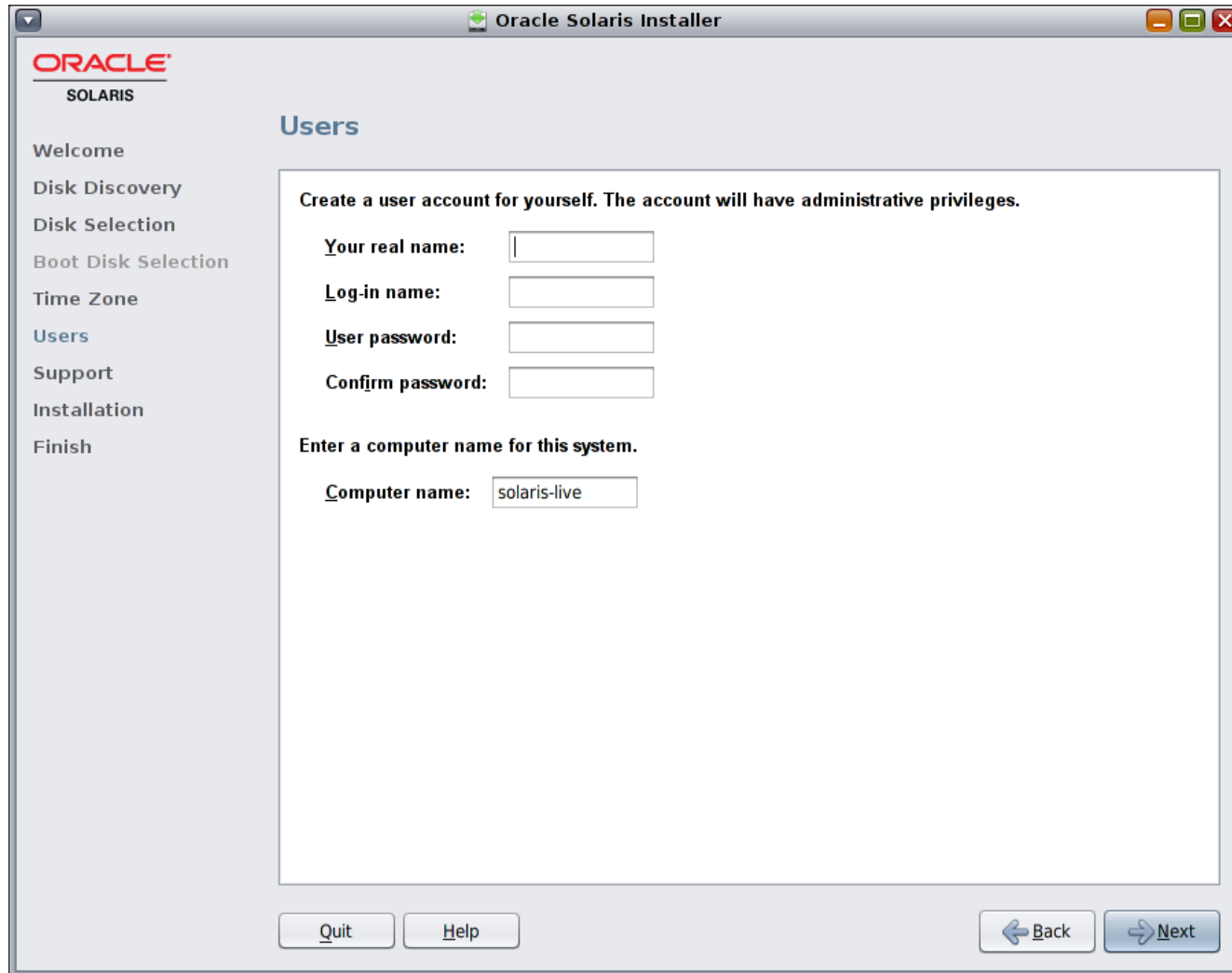
Time Zone: GMT/UTC

Date: 2015 - 7 - 21 YYYY - MM - DD

Time: 12 : 41 24 Hour

Quit Help Back Next

Providing User Information



The image shows a screenshot of the Oracle Solaris Installer window. The title bar reads "Oracle Solaris Installer". The Oracle logo and "SOLARIS" are in the top left. A sidebar on the left lists the installation steps: Welcome, Disk Discovery, Disk Selection, Boot Disk Selection, Time Zone, Users (highlighted), Support, Installation, and Finish. The main area is titled "Users" and contains the following text: "Create a user account for yourself. The account will have administrative privileges." Below this are four input fields: "Your real name:", "Log-in name:", "User password:", and "Confirm password:". Further down, it says "Enter a computer name for this system." followed by a "Computer name:" field containing the text "solaris-live". At the bottom, there are buttons for "Quit", "Help", "Back", and "Next".

Oracle Solaris Installer

ORACLE
SOLARIS

Welcome
Disk Discovery
Disk Selection
Boot Disk Selection
Time Zone
Users
Support
Installation
Finish

Users

Create a user account for yourself. The account will have administrative privileges.

Your real name:

Log-in name:

User password:

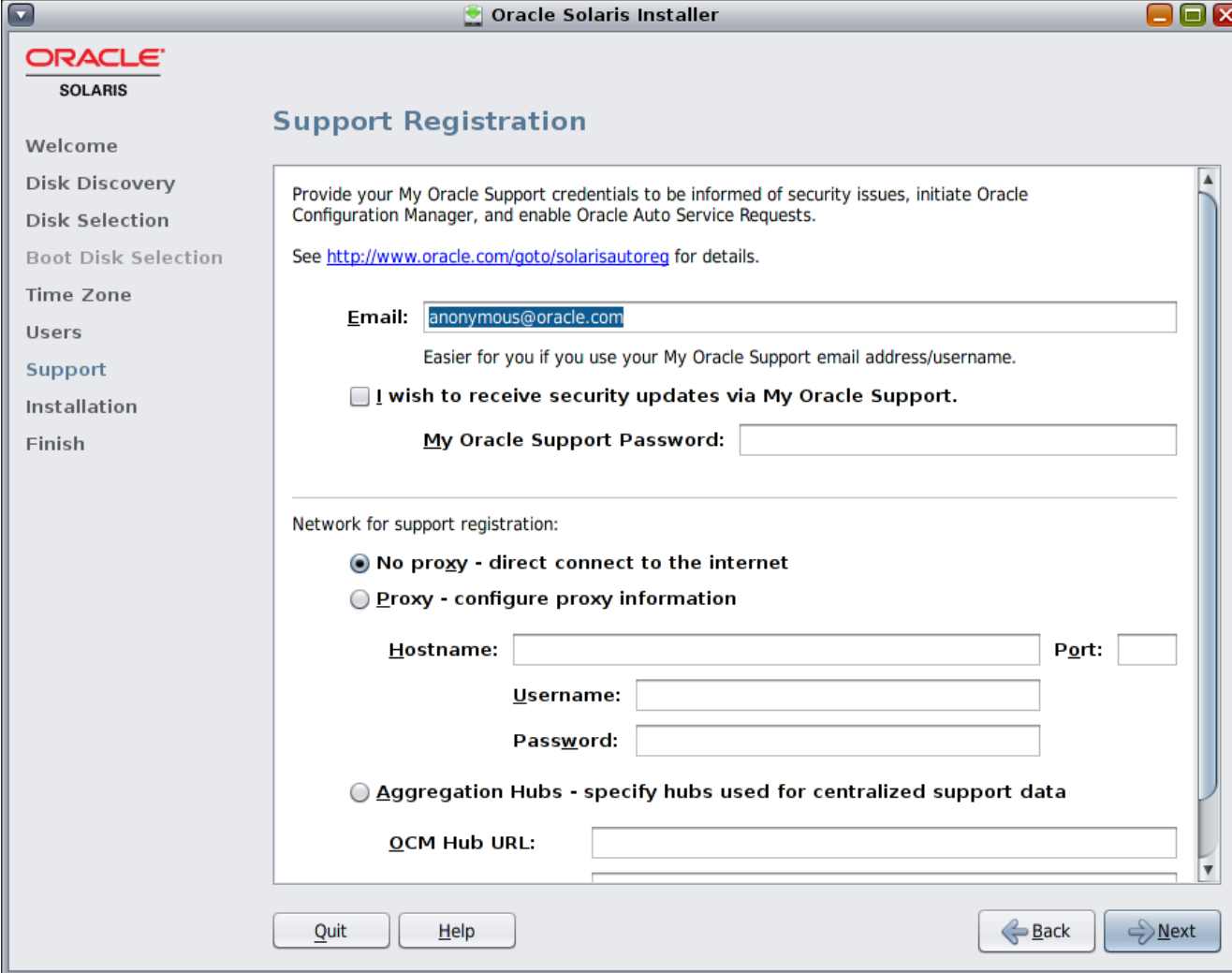
Confirm password:

Enter a computer name for this system.

Computer name:

Quit Help Back Next

Support Registration



The image shows a screenshot of the 'Oracle Solaris Installer' window, specifically the 'Support Registration' step. The window has a title bar with the Oracle logo and the text 'Oracle Solaris Installer'. On the left side, there is a vertical navigation pane with the following items: 'Welcome', 'Disk Discovery', 'Disk Selection', 'Boot Disk Selection', 'Time Zone', 'Users', 'Support' (which is highlighted in blue), 'Installation', and 'Finish'. The main content area is titled 'Support Registration' and contains the following text: 'Provide your My Oracle Support credentials to be informed of security issues, initiate Oracle Configuration Manager, and enable Oracle Auto Service Requests. See <http://www.oracle.com/goto/solarisautoreg> for details.' Below this text, there is a form with the following fields and options: 'Email:' with a text box containing 'anonymous@oracle.com'; a checkbox labeled 'I wish to receive security updates via My Oracle Support.'; 'My Oracle Support Password:' with a text box; a section titled 'Network for support registration:' with two radio button options: 'No proxy - direct connect to the internet' (which is selected) and 'Proxy - configure proxy information'; if the proxy option is selected, there are text boxes for 'Hostname:', 'Port:', 'Username:', and 'Password:'. Below these, there is another radio button option: 'Aggregation Hubs - specify hubs used for centralized support data'; and finally, a text box for 'OCM Hub URL:'. At the bottom of the window, there are four buttons: 'Quit', 'Help', 'Back' (with a left arrow), and 'Next' (with a right arrow).

ORACLE
SOLARIS

Welcome
Disk Discovery
Disk Selection
Boot Disk Selection
Time Zone
Users
Support
Installation
Finish

Support Registration

Provide your My Oracle Support credentials to be informed of security issues, initiate Oracle Configuration Manager, and enable Oracle Auto Service Requests.
See <http://www.oracle.com/goto/solarisautoreg> for details.

Email:

Easier for you if you use your My Oracle Support email address/username.

☐ I wish to receive security updates via My Oracle Support.

My Oracle Support Password:

Network for support registration:

☒ No proxy - direct connect to the internet
☐ Proxy - configure proxy information

Hostname: Port:

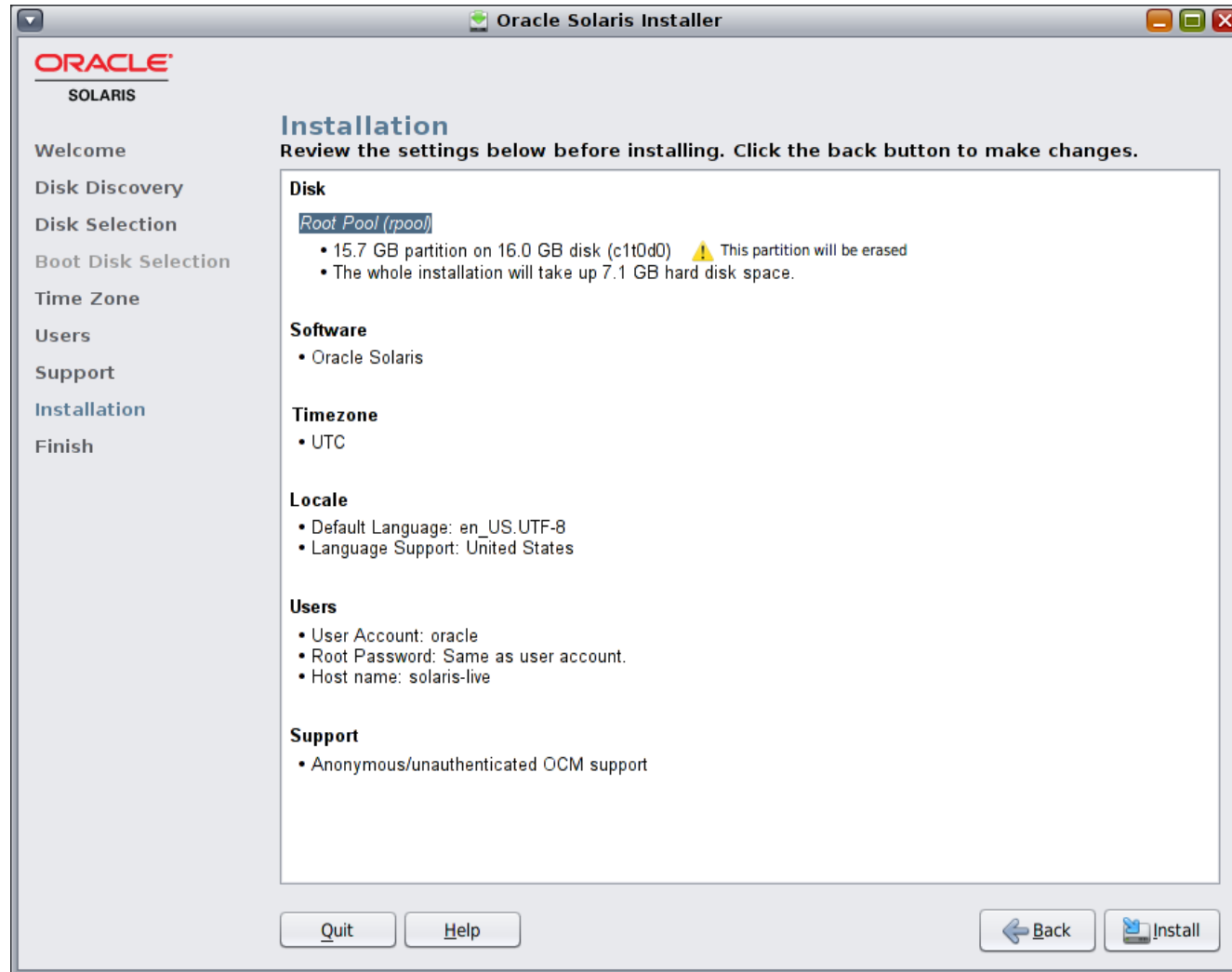
Username:

Password:

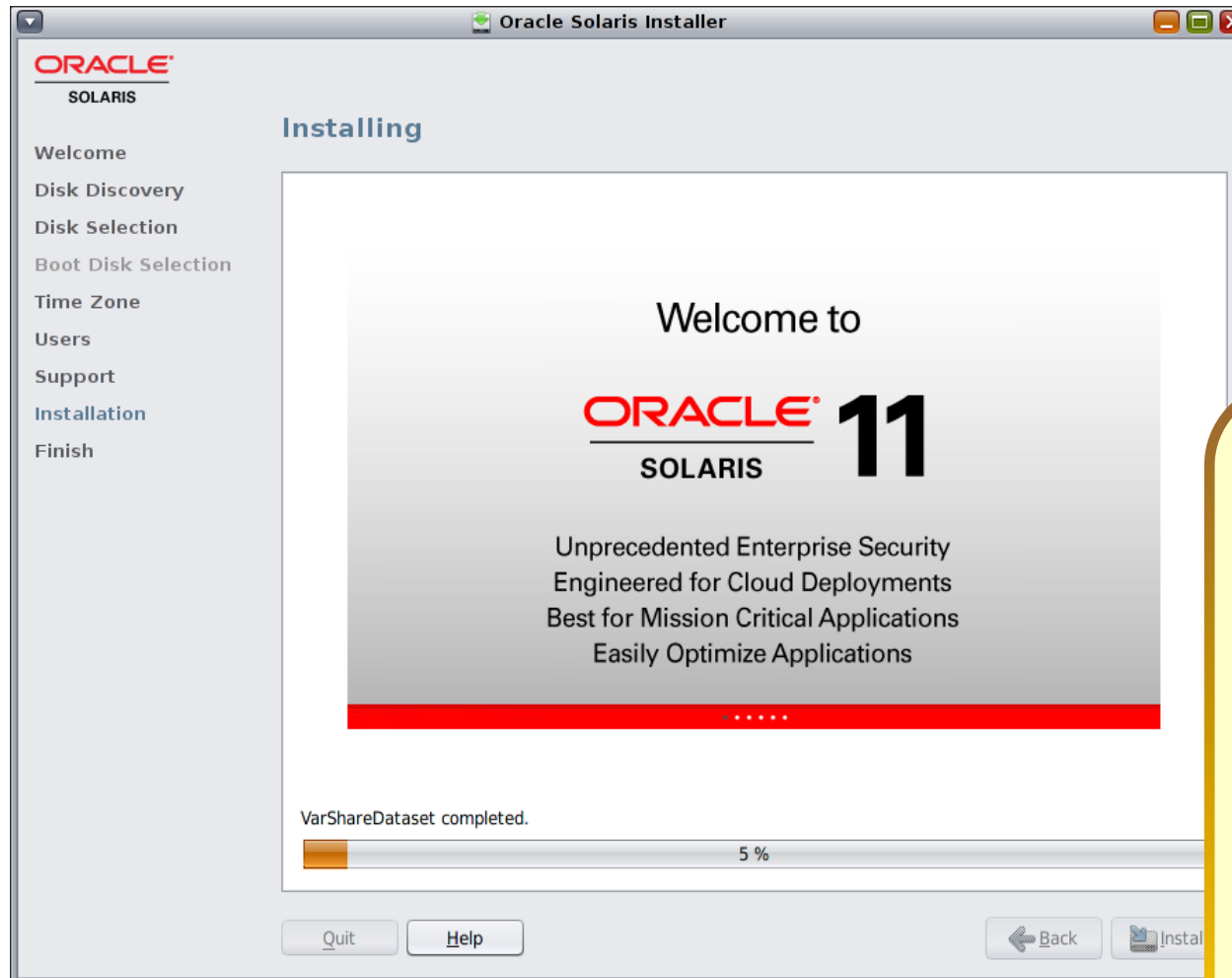
☐ Aggregation Hubs - specify hubs used for centralized support data

OCM Hub URL:

Reviewing Installation Specifications

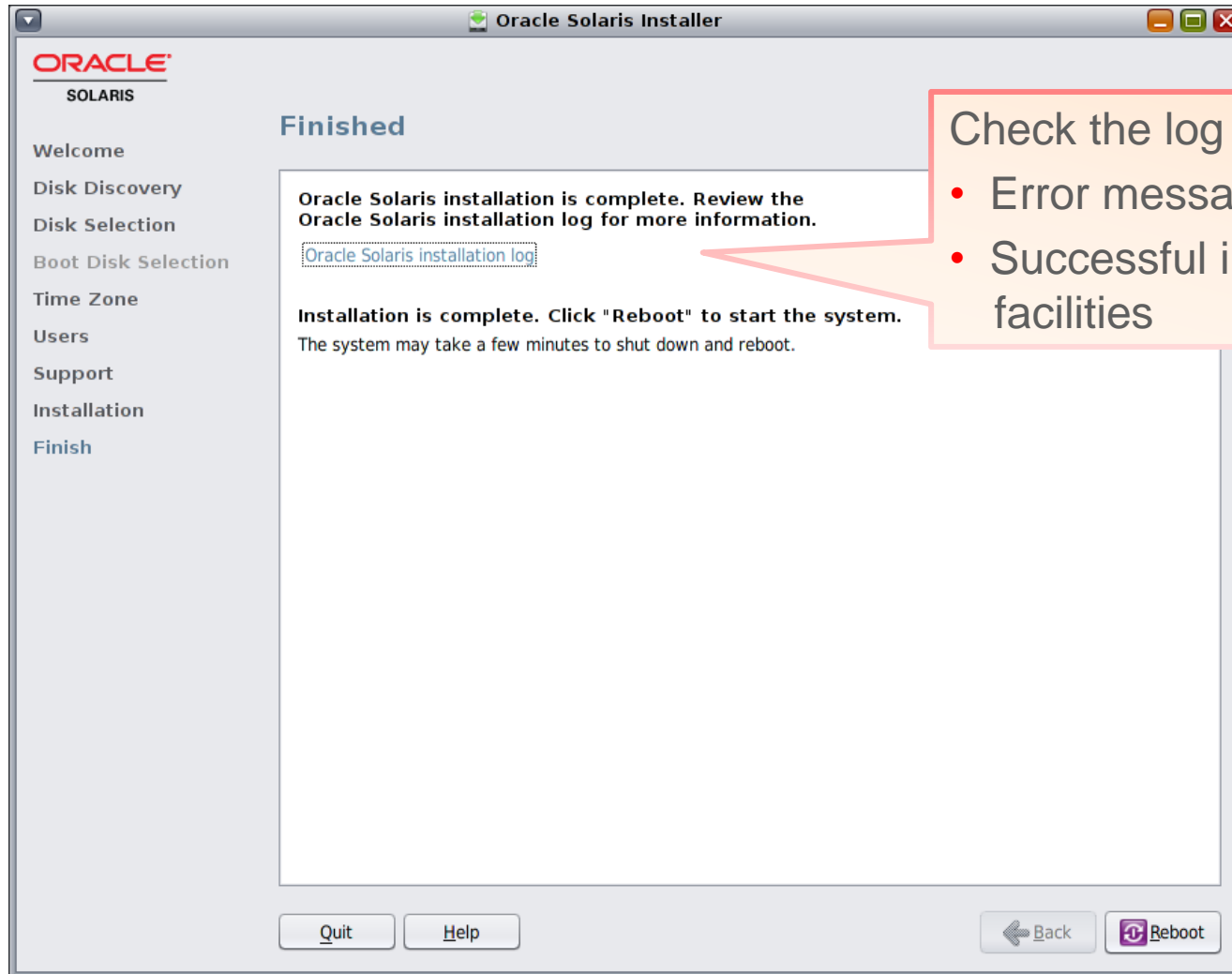


Monitoring the Installation



Caution:
After the installation starts, do not interrupt it. An incomplete installation can leave a disk in an indeterminate state.

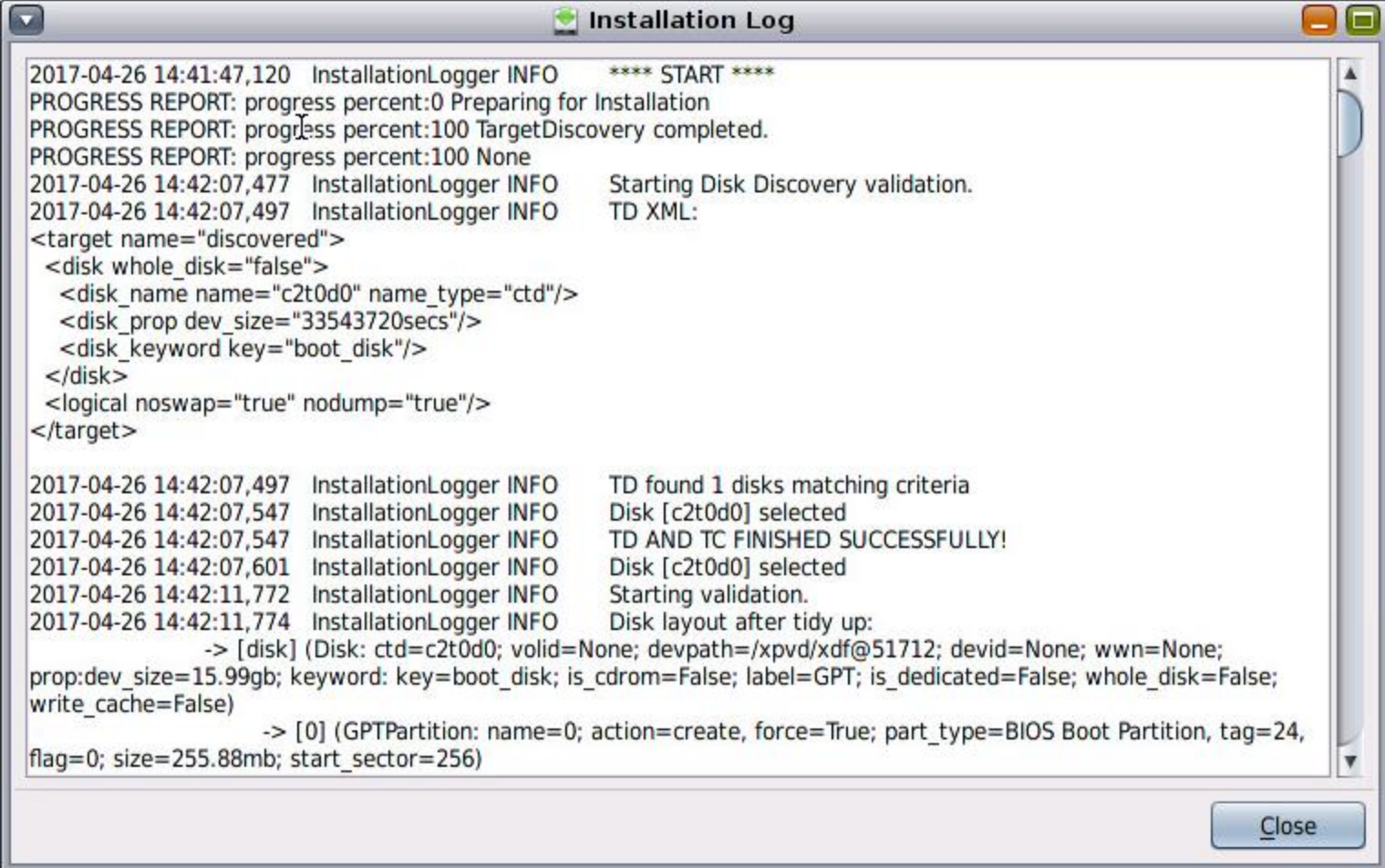
Verifying the Installation



Check the log for the following:

- Error messages
- Successful installation of major facilities

Reviewing the Installation Log

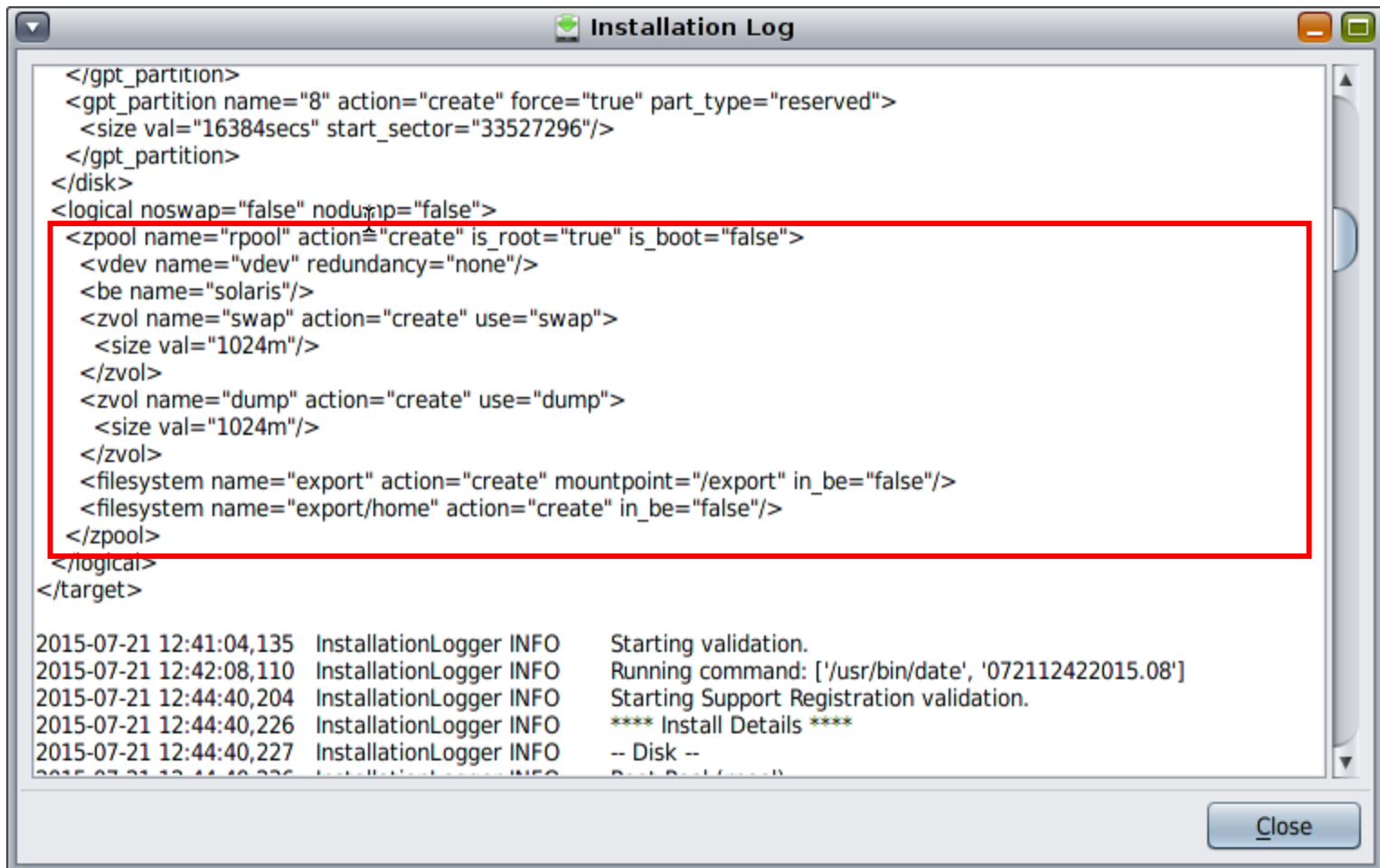


```
2017-04-26 14:41:47,120  InstallationLogger INFO      **** START ****
PROGRESS REPORT: progress percent:0 Preparing for Installation
PROGRESS REPORT: progress percent:100 TargetDiscovery completed.
PROGRESS REPORT: progress percent:100 None
2017-04-26 14:42:07,477  InstallationLogger INFO      Starting Disk Discovery validation.
2017-04-26 14:42:07,497  InstallationLogger INFO      TD XML:
<target name="discovered">
  <disk whole_disk="false">
    <disk_name name="c2t0d0" name_type="ctd"/>
    <disk_prop dev_size="33543720secs"/>
    <disk_keyword key="boot_disk"/>
  </disk>
  <logical noswap="true" nodump="true"/>
</target>

2017-04-26 14:42:07,497  InstallationLogger INFO      TD found 1 disks matching criteria
2017-04-26 14:42:07,547  InstallationLogger INFO      Disk [c2t0d0] selected
2017-04-26 14:42:07,547  InstallationLogger INFO      TD AND TC FINISHED SUCCESSFULLY!
2017-04-26 14:42:07,601  InstallationLogger INFO      Disk [c2t0d0] selected
2017-04-26 14:42:11,772  InstallationLogger INFO      Starting validation.
2017-04-26 14:42:11,774  InstallationLogger INFO      Disk layout after tidy up:
      -> [disk] (Disk: ctd=c2t0d0; valid=None; devpath=/xpvd/xdf@51712; devid=None; wwn=None;
prop:dev_size=15.99gb; keyword: key=boot_disk; is_cdrom=False; label=GPT; is_dedicated=False; whole_disk=False;
write_cache=False)
      -> [0] (GPTPartition: name=0; action=create, force=True; part_type=BIOS Boot Partition, tag=24,
flag=0; size=255.88mb; start_sector=256)
```

Close

Reviewing the Installation Log



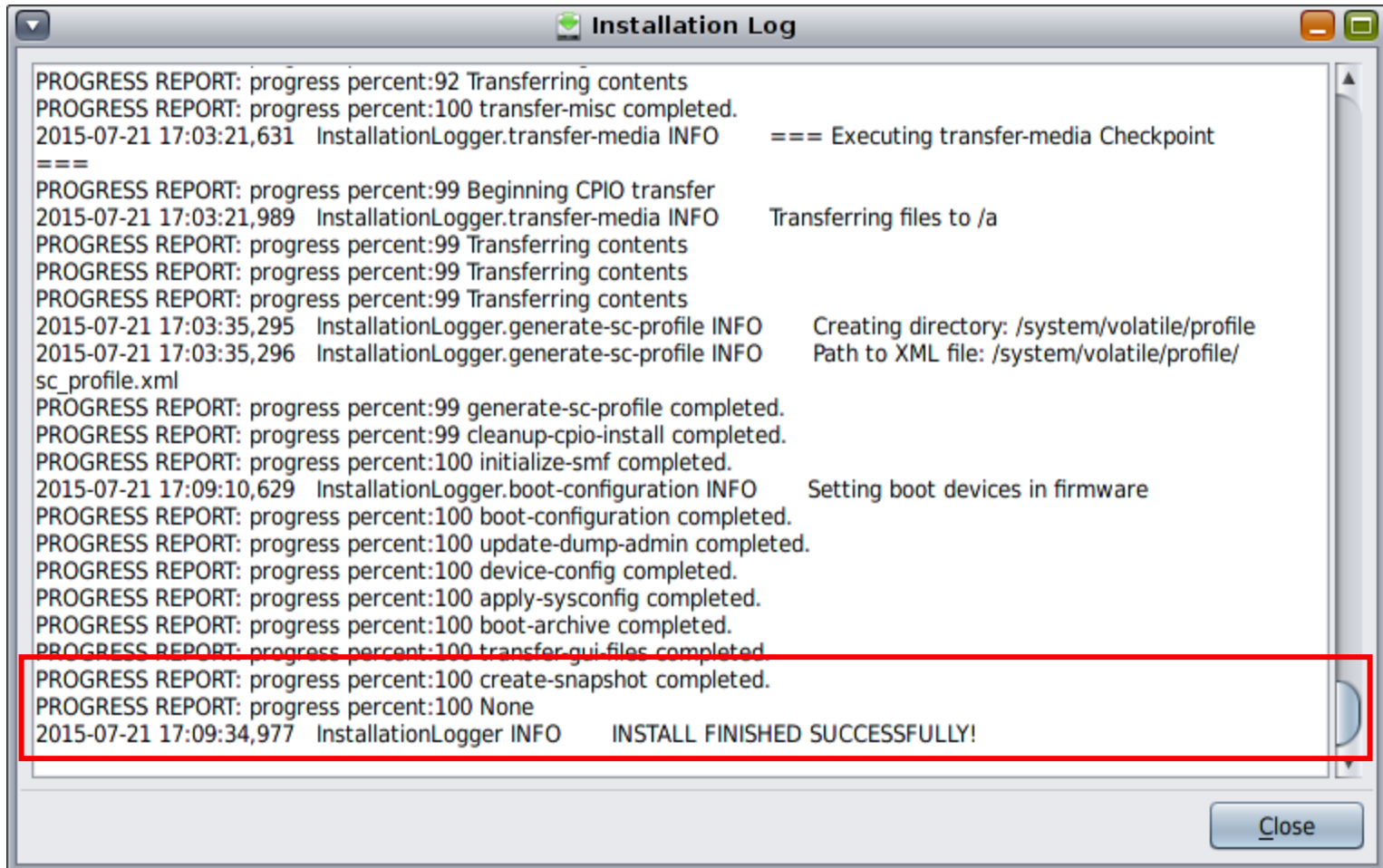
The screenshot shows a window titled "Installation Log" with a scrollable text area. The text contains XML configuration for a Solaris installation, including disk partitioning, logical volume creation, and zpool setup. A red rectangular box highlights the zpool configuration section, which includes the creation of a zpool named "rpool", a vdev named "vdev", and two zvols named "swap" and "dump", both 1024m in size. Below the XML, there are log entries from the "InstallationLogger" showing the start of validation, command execution, and support registration validation. The window has a "Close" button at the bottom right.

```
</gpt_partition>
<gpt_partition name="8" action="create" force="true" part_type="reserved">
  <size val="16384secs" start_sector="33527296"/>
</gpt_partition>
</disk>
<logical noswap="false" nodump="false">
  <zpool name="rpool" action="create" is_root="true" is_boot="false">
    <vdev name="vdev" redundancy="none"/>
    <be name="solaris"/>
    <zvol name="swap" action="create" use="swap">
      <size val="1024m"/>
    </zvol>
    <zvol name="dump" action="create" use="dump">
      <size val="1024m"/>
    </zvol>
    <filesystem name="export" action="create" mountpoint="/export" in_be="false"/>
    <filesystem name="export/home" action="create" in_be="false"/>
  </zpool>
</logical>
</target>
```

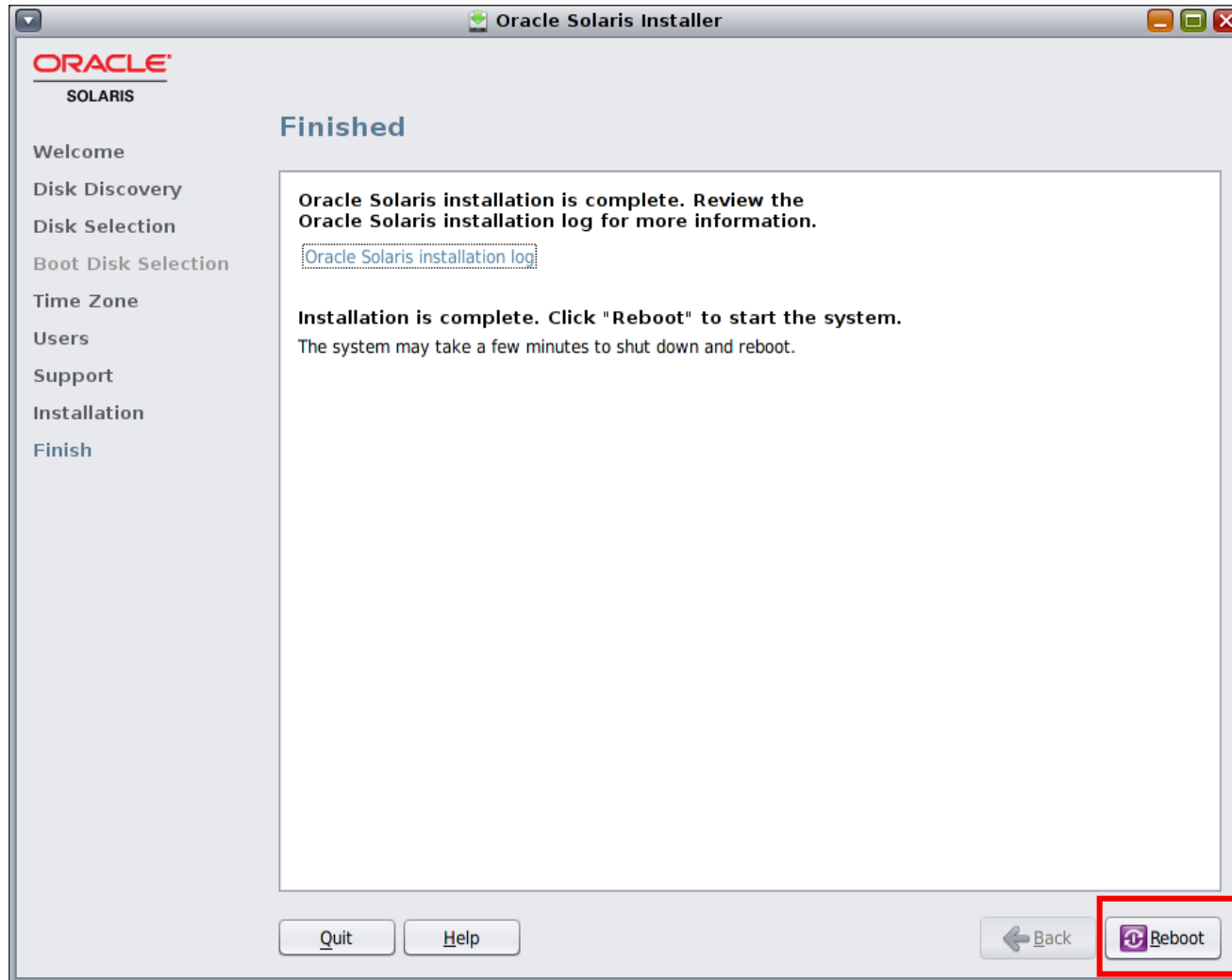
2015-07-21 12:41:04,135 InstallationLogger INFO Starting validation.
2015-07-21 12:42:08,110 InstallationLogger INFO Running command: ['/usr/bin/date', '072112422015.08']
2015-07-21 12:44:40,204 InstallationLogger INFO Starting Support Registration validation.
2015-07-21 12:44:40,226 InstallationLogger INFO **** Install Details ****
2015-07-21 12:44:40,227 InstallationLogger INFO -- Disk --

Close

Reviewing the Installation Log



Rebooting the System



Login Screen



The image shows a login screen for Oracle Solaris. It features the Oracle logo in red, followed by the word "SOLARIS" in black. Below "SOLARIS" is the text "solaris-live". There is a label "Username:" followed by a white text input field. To the right of the input field is a blue button with the text "Log In". The background of the login area is a light gray with a subtle pattern of overlapping hexagons.

ORACLE®

SOLARIS

solaris-live

Username:

Log In

Agenda

- Introduction to the Oracle Solaris 11 OS
- Planning for an Oracle Solaris 11 OS Installation
- Installing the Oracle Solaris 11 OS by Using the Live Media Installer
- **Installing the Oracle Solaris 11 OS by Using the Text Installer**
- Verifying the OS Installation

Installing Oracle Solaris 11 by Using the Text Installer

Welcome to the Oracle Solaris installation menu

- 1 Install Oracle Solaris
- 2 Install Additional Drivers
- 3 Shell
- 4 Terminal type (currently sun-color)
- 5 Reboot

Please enter a number [1]: _

Initiating Installation with the Text Installer

Select option 1 to initiate installation.

```
Welcome to the Oracle Solaris installation menu
```

- 1 Install Oracle Solaris
- 2 Install Additional Drivers
- 3 Shell
- 4 Terminal type (currently sun-color)
- 5 Reboot

```
Please enter a number [1]: _
```

Welcome to Oracle Solaris

Welcome to Oracle Solaris

Thanks for choosing to install Oracle Solaris! This installer enables you to install the Oracle Solaris Operating System (OS) on SPARC or x86 systems.

The installation log will be at `/system/volatile/install_log`.

How to navigate through this installer:

- Use the function keys listed at the bottom of each screen to move from screen to screen and to perform other operations.
- Use the up/down arrow keys to change the selection or to move between input fields.
- If your keyboard does not have function keys, or they do not respond, press ESC; the legend at the bottom of the screen will change to show the ESC keys for navigation and other functions.

F2_Continue F6_Help F9_Quit

Selecting the Discovery Method

Discovery Selection

Select discovery method for disks

Local Disks

Discover local disks

iSCSIDiscover iSCSI LUNs

F2_Continue F3_Back F6_Help F9_Quit

Selecting a Disk

Disks

Where should Oracle Solaris be installed?
Minimum size: 5.3GB Recommended minimum: 7.3GB

Type	Size(GB)	Boot	Device
sata	16.0	+	c1t0d0

A GPT labeled disk was not found. The following is proposed.

Partition	Type	Size(GB)	Partition	Type	Size(GB)
BIOS Boot	Part	0.2	Unused		0.0
Solaris		15.7	Unused		0.0
Unused		0.0	Unused		0.0
Unused		0.0	Unused		0.0
			1 more partitions		

F2_Continue F3_Back F6_Help F9_Quit

Selecting an Fdisk Partition

GPT Partitions: 16.0GB sata Boot

Oracle Solaris can be installed on the whole disk or a GPT partition on the disk.

The following GPT partitions were found on the disk.

Partition Type	Size(GB)	Partition Type	Size(GB)
BIOS Boot Part	0.2	Unused	0.0
Solaris	15.7	Unused	0.0
Unused	0.0	Unused	0.0
Unused	0.0	Unused	0.0

1 more partitions

Use the entire disk
Use a GPT partition of the disk

F2_Continue F3_Back F6_Help F9_Quit

Providing a System Identity

System Identity

Enter a name for this computer that identifies it on the network.
It can contain letters, numbers, periods (.) and minus signs (-). The
name must start and end with an alphanumeric character and must contain
at least one non-digit character.

Computer Name:

F2_Continue F3_Back F6_Help F9_Quit

Selecting a Network

Network

Select how the wired ethernet network connection is configured.

Automatically

Automatically configure the connection

Manually

Enter the information on the following screen

None

Do not configure the network at this time

F2_Continue F3_Back F6_Help F9_Quit

Manually Configuring the Network

Manually Configure: net0/v4

Enter the configuration for this network connection. All entries must contain four sets of numbers, 0 to 255, separated by periods.

NIC:	net0/v4	Settings will be applied to this interface
IP Address:	<input type="text"/>	Must be unique for this network
Netmask:	255.255.255.0	Your subnet use may require a different mask
Router:	10.0.2.2	The IP address of the router on this subnet

F2_Continue F3_Back F6_Help F9_Quit

DNS Name Service

DNS Name Service

Indicates whether or not the system should use the DNS name service.

Configure DNS
Do not configure DNS

F2_Continue F3_Back F6_Help F9_Quit

Alternate Name Service

Alternate Name Service

From the list below, select one name service to be used by this system.
If the desired name service is not listed, select None. The selected
name service may be used in conjunction with DNS.

☒ None
☐ LDAP
☐ NIS

F2_Continue F3_Back F6_Help F9_Quit

Selecting Time Zone: Regions

Time Zone: Regions

Select the region that contains your time zone.

Regions

UTC/GMT

Africa

Americas

Antarctica

Asia

Atlantic Ocean

Australia

Europe

Indian Ocean

Pacific Ocean

F2_Continue F3_Back F6_Help F9_Quit

Setting Time Zone: Locations

Time Zone: Locations

Select the location that contains your time zone.

Locations

- Anguilla
- | Antigua & Barbuda
- | Argentina
- | Aruba
- | Bahamas
- | Barbados
- | Belize
- | Bolivia
- | Brazil
- | Canada
- | Caribbean Netherlands
- | Cayman Islands
- | Chile
- | Colombia
- | Costa Rica
- | Cuba
- | Curacao
- | Dominica
- | Dominican Republic
- | Ecuador
- | El Salvador
- | French Guiana
- | Greenland
- v Grenada

F2_Continue F3_Back F6_Help F9_Quit

Selecting the Time Zone

Time Zone

Select your time zone.

Time Zones

- **Alaska Time**
 - | Alaska Time - Alaska panhandle
 - | Alaska Time - Alaska panhandle neck
 - | Alaska Time - southeast Alaska panhandle
 - | Alaska Time - west Alaska
 - | Aleutian Islands
- | Central Time
 - | Central Time - Indiana - Perry County
 - | Central Time - Indiana - Starke County
 - | Central Time - Michigan - Dickinson, Gogebic, Iron & Menominee Counti
 - | Central Time - North Dakota - Mercer County
 - | Central Time - North Dakota - Morton County (except Mandan area)
 - | Central Time - North Dakota - Oliver County
- | Eastern Time
 - | Eastern Time - Indiana - Crawford County
 - | Eastern Time - Indiana - Daviess, Dubois, Knox & Martin Counties
 - | Eastern Time - Indiana - most locations
 - | Eastern Time - Indiana - Pike County
 - | Eastern Time - Indiana - Pulaski County
 - | Eastern Time - Indiana - Switzerland County
 - | Eastern Time - Kentucky - Louisville area
 - | Eastern Time - Kentucky - Wayne County
 - | Eastern Time - Michigan - most locations
- v Hawaii time

F2_Continue F3_Back F6_Help F9_Quit

Selecting the Language

Locale: Language

Select the default language support and locale specific data format.
These selections determine the language support, the default date and
time, and other data formats.
The language chosen automatically determines the available territories.

Language

No Default Language Support
Chinese
English
French
German
Italian
Japanese
Korean
Portuguese
Spanish

F2_Continue F3_Back F6_Help F9_Quit

Selecting the Territory

Locale: Territory

Select the language territory

Territory

United States (en_US.UTF-8)

F2_Continue F3_Back F6_Help F9_Quit

Setting the Date and Time

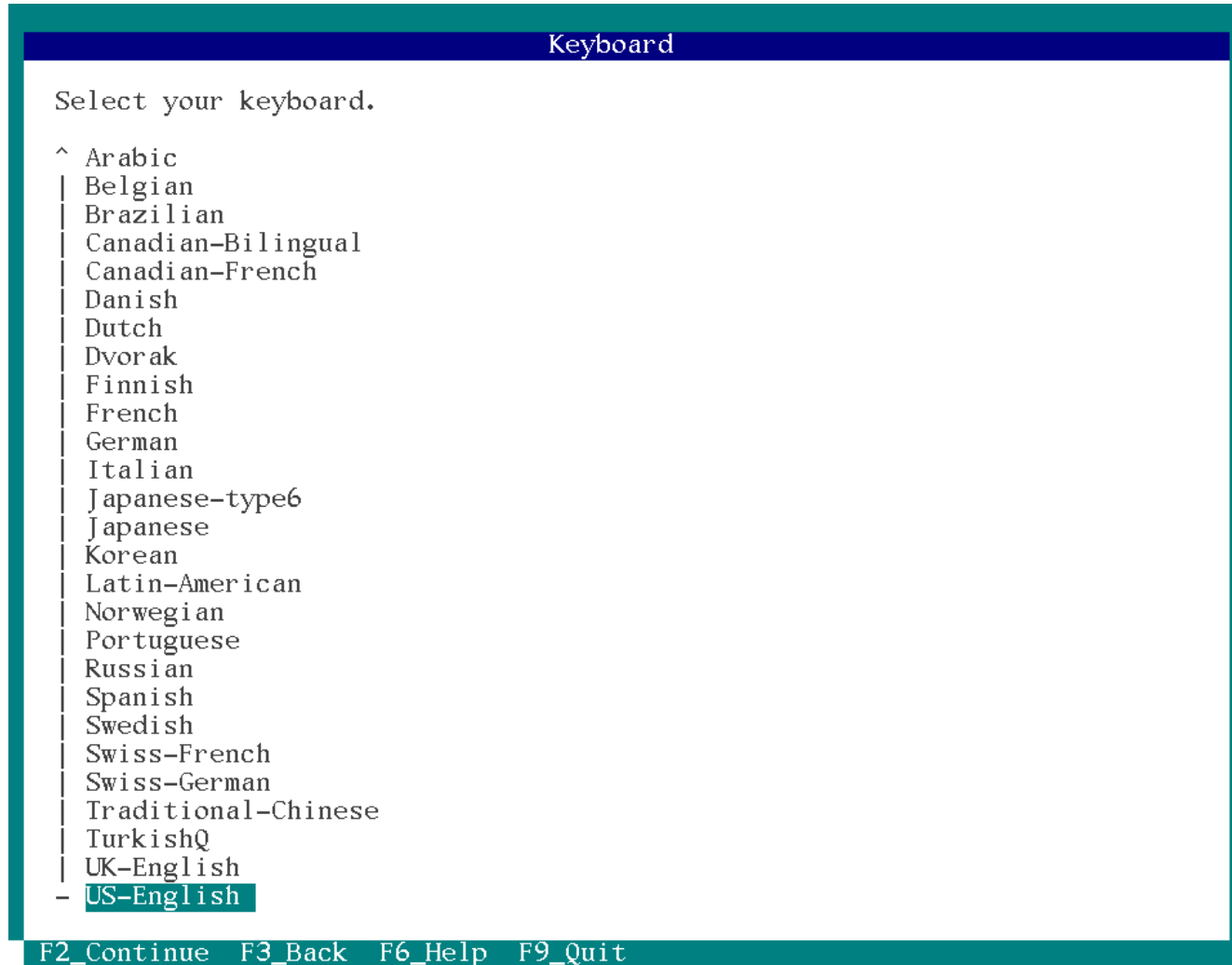
Date and Time

Edit the date and time as necessary.
Time shown is the system clock time in UTC and will be interpreted as such on installation.
The time is in 24 hour format.

Year: 2015 (YYYY)
Month: 07 (1-12)
Day: 21 (1-31)
Hour: 14 (0-23)
Minute: 18 (0-59)

F2_Continue F3_Back F6_Help F9_Quit

Selecting the Keyboard



Providing User Information

Users

Define a root password for the system and user account for yourself.

System Root Password (required)

Root password:

Confirm password:

Create a user account (optional)

Your real name:

Username:

User password:

Confirm password:

F2_Continue F3_Back F6_Help F9_Quit

Registering to My Oracle Support

Support - Registration

Provide your My Oracle Support credentials to be informed of security issues, initiate Oracle Configuration Manager, and enable Oracle Auto Service Requests.

See <http://www.oracle.com/goto/solarisautoreg> for details.

Email: anonymous@oracle.com

Easier for you if you use your My Oracle Support email address/username.

Please enter your password if you wish to receive security updates via My Oracle Support.

My Oracle Support password:

F2_Continue F3_Back F6_Help F9_Quit

Support Network Configuration

Support - Network Configuration	
To improve products and services, Oracle Solaris relays configuration data to the Oracle support organization.	
Select an internet access method for OCM and ASR.	
No proxy	Use system Internet connection parameters
Proxy	Enter proxy information on the next screen
Aggregation Hubs	Enter hubs information on the next screen

F2_Continue F3_Back F6_Help F9_Quit

Reviewing the Installation Summary

Installation Summary

Review the settings below before installing. Go back (F3) to make changes.

Software: Oracle Solaris 11.3 X86

Root Pool Disk: 16.0GB None

Computer name: solaris-text

Network:
Manual Configuration: net0/v4
IP Address: 192.168.1.250/24
Netmask: 255.255.255.0

Time Zone: US/Mountain
Locale:
Default Language: English
Language Support: English (United States)
Keyboard: US-English
Username: oracle

Support configuration:
OCM telemetry will be sent and associated with email address:
anonymous@oracle.com
Telemetry will not be registered with My Oracle Support because no
password was saved.

F2_Install

F3_Back

F6_Help

F9_Quit

Monitoring the Installation

Installing Oracle Solaris

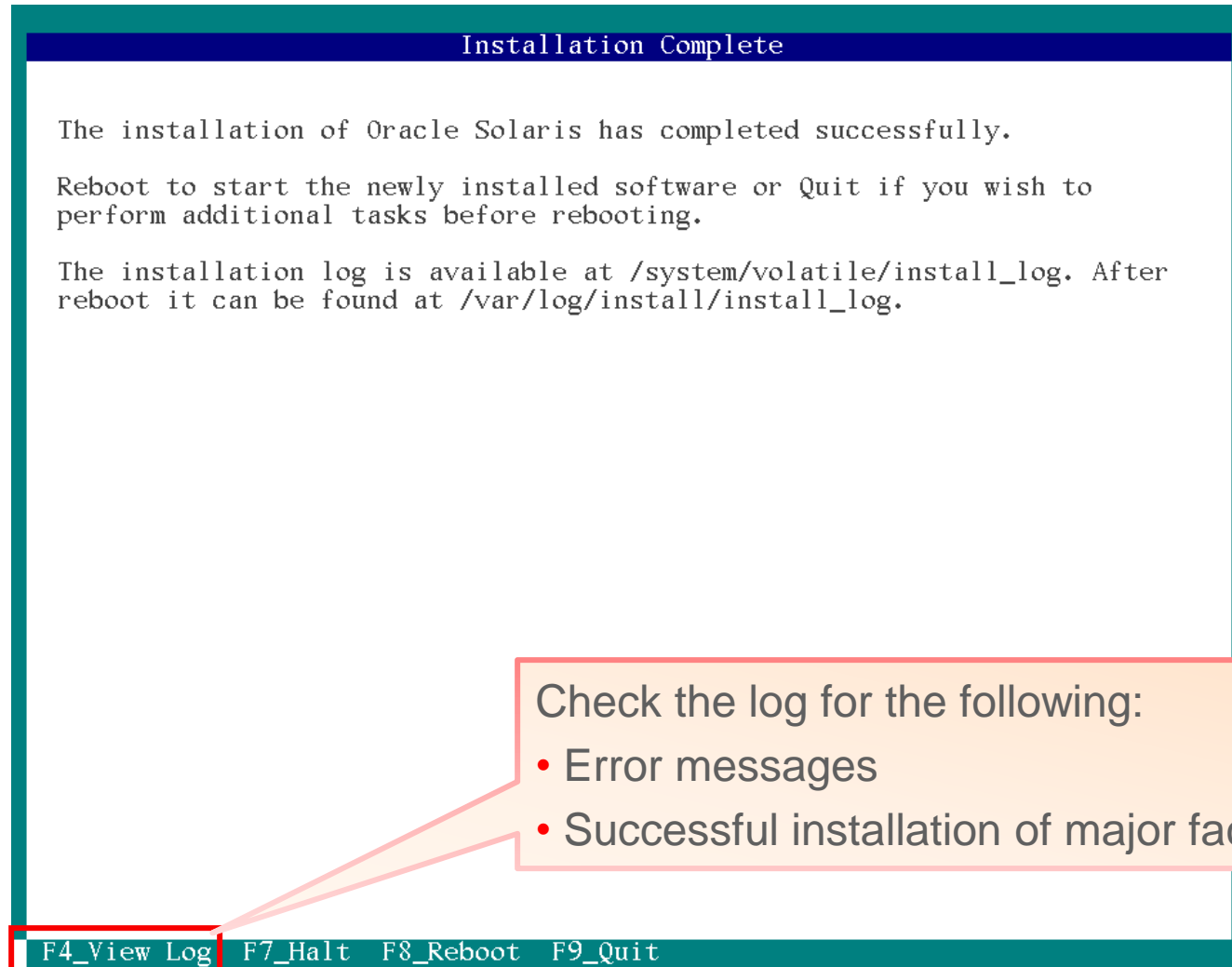
TargetInitialization completed.

[██████████] (5%)]

F9_Quit

Caution:
After the installation starts, do not interrupt it. An incomplete installation can leave a disk in an indeterminate state.

Verifying the Installation



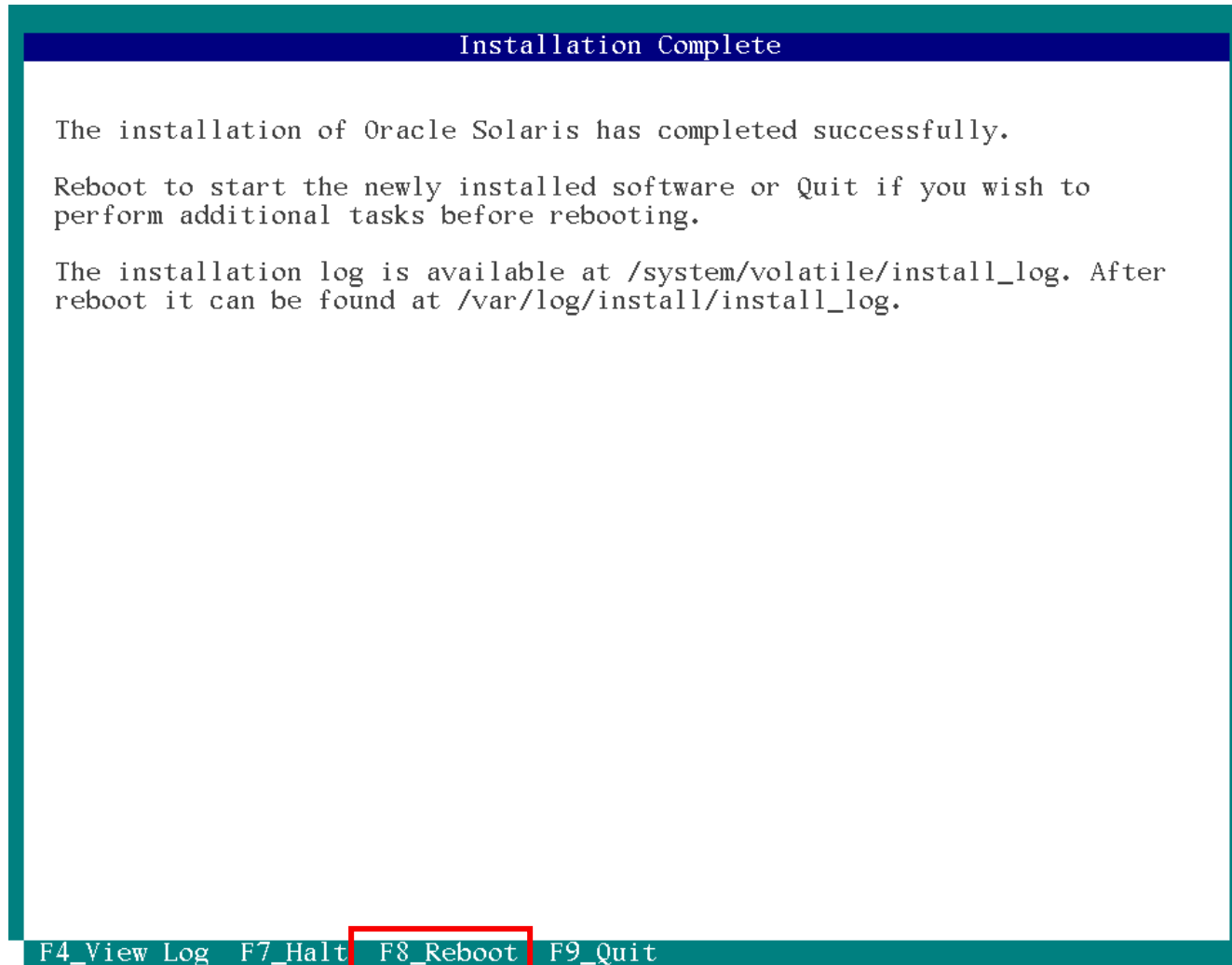
Reviewing the Installation Log

```
Installation Log
- 2017-04-26 16:09:09,313  InstallationLogger INFO      **** START ****

PROGRESS REPORT: progress percent:0 Preparing for Installation
PROGRESS REPORT: progress percent:100 TargetDiscovery completed.
PROGRESS REPORT: progress percent:100 None
2017-04-26 16:13:42,671  InstallationLogger INFO      Unable to read
disk layout of:      -> [disk] (Disk: ctd=c2t0d0; volid=None;
devpath=/xpvd/xd0@51712; devid=None; wwn=None; prop:dev_size=15.99gb;
keyword: key=boot_disk; is_cdrom=False; label=None; is_dedicated=False;
whole_disk=False; write_cache=False)
2017-04-26 16:13:45,080  InstallationLogger INFO      Going to perform
final validation of desired target
2017-04-26 16:14:00,302  InstallationLogger.sysconfig INFO
Configuring NIC as: automatic
2017-04-26 16:14:07,850  InstallationLogger.sysconfig INFO
Configuring NIC as: manual
2017-04-26 16:14:07,867  InstallationLogger.sysconfig INFO
Selected default NIC net0
2017-04-26 16:34:49,147  InstallationLogger.sysconfig INFO
on_change_screen DNS chosen? False
2017-04-26 16:34:51,015  InstallationLogger.sysconfig INFO
on_change_screen Name Service chosen=None
2017-04-26 16:34:51,017  InstallationLogger.sysconfig INFO
self.sc.alt_nameservice: None
2017-04-26 16:35:24,414  InstallationLogger INFO      The following
configuration is used for installation: [u'Software: Oracle Solaris 11.3
X86', '', u'Root Pool Disk: 16.0GB None', '', u'Computer name:
solaris-text', u'', u'Network:', u'Manual Configuration: net0/v4', u'IP
Address: 192.168.1.250/24', u'Netmask: 255.255.255.0', u'', u'Time Zone:
US/Mountain', u'Locale:', u'Default Language: English', u'Language
```

F3_Back

Rebooting the System



Login Screen

```
SunOS Release 5.11 Version 11.3 64-bit
Copyright (c) 1983, 2015, Oracle and/or its affiliates.
  All rights reserved.
Loading smf(5) service descriptions: 219/219
Configuring devices.
Hostname: solaris-text

solaris-text console login: _
```


Agenda

- Introduction to the Oracle Solaris 11 OS
- Planning for an Oracle Solaris 11 OS Installation
- Installing the Oracle Solaris 11 OS by Using the Live Media Installer
- Installing the Oracle Solaris 11 OS by Using the Text Installer
- **Verifying the OS Installation**

Verifying the Operating System Installation

- Verifying login information
- Using first time login assistant
- Verifying the system's host name and host ID
- Displaying basic system information
- Displaying a system's release information
- Displaying disk configuration information
- Displaying the installed memory size
- Displaying disk space information
- Displaying information about network services
- Displaying network interface information

Verifying the Login Username

Live Media



Text Installation

```
solaris-text console login:
```

Verifying the Login Password

Live Media

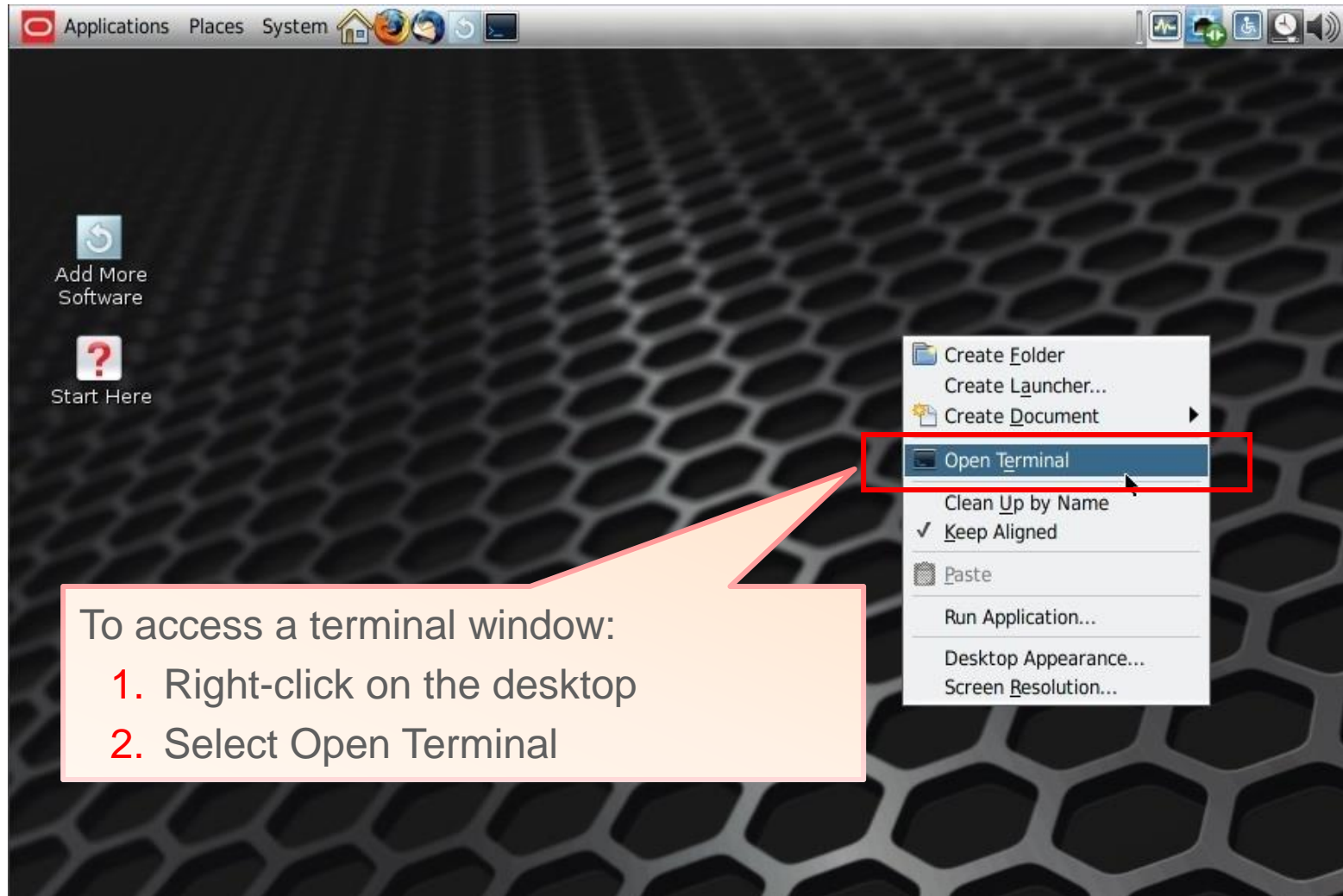


Text Installation

Password:

```
Oracle Corporation  SunOS 5.11  11.3  September 2015
oracle@solaris-text:~$
```

Live Media GUI: Accessing a Terminal Window from Gnome



Verifying the Host Name and Host ID

To display the host name, use the `hostname` command.

```
$ hostname  
solaris-live
```

Note: The host name should match the computer name that you provided during installation.

To display the host ID, use the `hostid` command.

```
$ hostid  
00063ab1
```

The `hostid` command prints the identifier of the current host in hexadecimal.

Displaying Basic System Information

To display basic information about the system, run `uname -a`

```
$ uname -a  
SunOS solaris-live 5.11 11.3 i86pc i386 i86pc
```

This system's basic information is as follows:

- Operating system: SunOS
- Hostname: solaris-live
- Release: 5.11
- Version: 11.3
- Node name: i86pc
- Hardware name: i386
- Processor type: i86pc

Displaying a System's Release Information

To display the operating system's release information, run `cat /etc/release`.

```
$ cat /etc/release
```

```
                Oracle Solaris 11.3 X86  
Copyright (c) 1983, 2015, Oracle and/or its affiliates.  
                All rights reserved.  
                Assembled 06 October 2015
```


Displaying Disk Configuration Information

To display disk information, switch to superuser and run `format`.

```
$ su -  
Password:  
# format  
Searching for disks...done  
  
AVAILABLE DISK SELECTIONS:  
0. clt0d0 <Unknown-Unknown-0001-16.00GB>  
    /pvd/xd051712  
Specify disk (enter its number): 0  
selecting clt0d0  
[disk formatted]  
/dev/dsk/clt0d0s1 is part of active ZFS pool rpool. Please see zpool(1M).  
  
<continued on next page>
```

Note: The `format` utility requires `root` role privileges.

Displaying Disk Configuration Information: Format Menu

To display disk partition information, select `verify`.

FORMAT MENU:

<code>disk</code>	- select a disk
<code>type</code>	- select (define) a disk type
<code>partition</code>	- select (define) a partition table
<code>current</code>	- describe the current disk
<code>format</code>	- format and analyze the disk
<code>fdisk</code>	- run the fdisk program
<code>repair</code>	- repair a defective sector
<code>label</code>	- write label to the disk
<code>analyze</code>	- surface analysis
<code>defect</code>	- defect list management
<code>backup</code>	- search for backup labels
<code>verify</code>	- read and display labels
<code>inquiry</code>	- show vendor, product and revision
<code>volname</code>	- set 8-character volume name
<code>!<cmd></code>	- execute <cmd>, then return
<code>quit</code>	

`format> verify`

`<continued on next page>`

Displaying Disk Configuration Information: Partition Table

```
Volume name = <          >
ascii name  = < Unknown-Unknown-0001-16.00GB >
bytes/sector = 512
sectors = 33554431
accessible sectors = 33554398
```

Part	Tag	Flag	FIRST Sector	Size	Last Sector
0	BIOS boot	wm	256	255.88MB	524287
1	usr	wm	524288	15.74GB	33527295
2	unassigned	wm	0	0	0
3	unassigned	wm	0	0	0
4	unassigned	wm	0	0	0
5	unassigned	wm	0	0	0
6	unassigned	wm	0	0	0
8	reserved	wm	33537792	8.00MB	33554175

```
format> quit
```

```
#
```

Displaying Installed Memory Size

To display memory size, use the `prtconf | grep Memory` command.

```
# prtconf | grep Memory  
Memory size: 2048 Megabytes
```

Displaying Disk Space Information

To display space utilization for the file system, use the `df -h` command.

```
# df -h
```

Filesystem	Size	Used	Available	Capacity	Mounted on
rpool/ROOT/solaris	15G	4.7G	8.2G	37%	/
/devices	0K	0K	0K	0%	/devices
/dev	0K	0K	0K	0%	/dev
ctfs	0K	0K	0K	0%	/system/contract
proc	0K	0K	0K	0%	/proc
mnttab	0K	0K	0K	0%	/etc/mnttab
swap	1.2G	1.6M	1.2G	1%	/system/volatile
objfs	0K	0K	0K	0%	/system/object
sharefs	0K	0K	0K	0%	/etc/dfs/sharetab
/usr/lib/libc/libc_hwcapi.so.1	13G	4.7G	8.2G	37%	/lib/libc.so.1
fd	0K	0K	0K	0%	/dev/fd
...					
(output truncated)					

Displaying Information About Network Services

To display information about network connection configuration services, run `svcs network/physical`.

```
# svcs network/physical
STATE      STIME      FMRI
online     11:33:57   svc:/network/physical:upgrade
online     11:34:07   svc:/network/physical:default
```

Displaying Network Interface Information

To display network interface information, run `ipadm show-addr`.

```
# ipadm show-addr
```

ADDROBJ	TYPE	STATE	ADDR
lo0/v4	static	ok	127.0.0.1/8
net0/v4	dhcp	ok	192.168.1.250/24
lo0/v6	static	ok	::1/128
net0/v6	addrconf	ok	fe80::a00:27ff:feee:2a1a/10

Baseline System Information Commands: Summary

System Information	Command
Host name	<code>hostname</code>
Host ID	<code>hostid</code>
Basic system information	<code>uname -a</code>
Operating system release information	<code>cat /etc/release</code>
Disk configuration	<code>format</code>
Installed memory	<code>prtconf grep Memory</code>
Disk space information	<code>df -h</code>
Network services information	<code>svcs network/physical</code>
Network interface information	<code>ipadm show-addr</code>

Quiz



The Oracle Device Detection Tool can be used to determine whether:

- a. The OS is installed correctly
- b. There are errors on the internal or external hard disks
- c. A device driver is available

Quiz



Live Media can be installed only on x86 (64-bit only) hardware.

- a. True
- b. False

Quiz



In the text installer, the root user _____.

- a. Is always configured as a role
- b. Might or might not be configured as a role
- c. Is never configured as a role

Quiz



The text installer is used for SPARC-based systems only.

- a. True
- b. False

Summary

In this lesson, you should have learned how to:

- Describe the Oracle Solaris 11 OS
- Implement a plan for an Oracle Solaris 11 OS installation
- Install the Oracle Solaris 11 OS by using the Live Media installer
- Install the Oracle Solaris 11 OS by using the text installer
- Verify the installed OS

Practice 2: Overview

- 2-1: Installing Oracle Solaris 11 by Using the GUI Installer on Live Media
- 2-2: Installing Oracle Solaris 11 by Using the Text Installer
- 2-3: Verifying the Operating System Installation