



Solaris Smartpqi Driver Installation

User Guide

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1. Supported Hardware

This driver supports following product names of Smart RAID controllers:

- SmartRAID P450-2G
- SmartHBA H250/H251
- SmartRAID P451-4GB

2. Supported operating systems

This driver supports the Solaris 11.2, 11.3 OSs on x86 platform.

3. Installing the Driver Package after Operating System Installation (On-board)

- 1) Remove In-box aac driver, since smart RAID controller claimed with the in-box aac driver.

```
#rem_drv aac
```

- 2) Extract smartpqi Driver Package from zip or tar file.
- 3) Load driver package.

Copy “smartpqi.pkg” in current working directory and execute following command

```
# pkgadd -d smartpqi.pkg
```

on terminal following messages will appear

The following packages are available:

```
1  MSCsmartpqi      Microsemi Smart PQI RAID Controller driver
                        (i386) 1.0.0-100,REV=2016.06.06.22.10
```

Select package(s) you wish to process (or 'all' to process all packages). (default: all) [?,??,q]:

Enter ‘1’ or ‘all’

Do you want to continue with the installation of <MSCsmartpqi> [y,n,?]

Enter ‘y’

The following message appears after a successful installation:

```
Installation of <MSCsmartpqi> was successful.
```

- 4) Reboot the system
reboot
- 5) Check following command to confirm the driver loaded or not
modinfo -c | grep smartpqi
- 6) For Driver Package information
pkginfo -l MSCsmartpqi

4. Removing the Driver Package

- 1) Remove the loaded driver package

```
# pkgrm MSCsmartpqi
```

Following messages will appear on terminal

The following package is currently installed:

```
MSCsmartpqi  Microsemi Smart PQI RAID Controller driver
              (i386) 1.0.0-100,REV=2016.06.06.22.10
```

Do you want to remove this package? [y,n,?,q]

Enter 'y'

Do you want to continue with the removal of this package [y,n,?,q]

Enter 'y'

Removal of <MSCsmartpqi> was successful

- 2) Reboot the system

```
# reboot
```

5. Installing the Driver Package during Operating System Installation (On-controller)

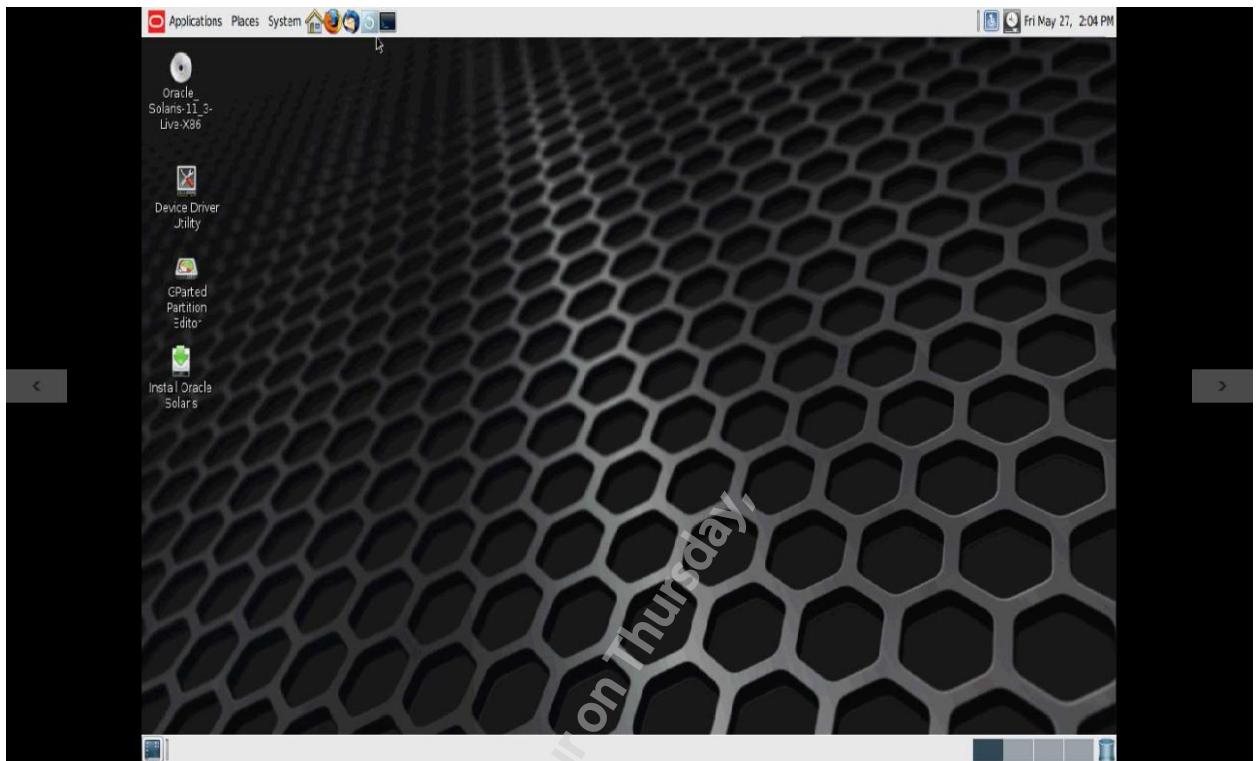
5.1 Using Oracle Solaris 11.3 Live Media:

Perform the following procedure to install the Solaris 11.3 OS on any of the supported Microsemi smart RAID controllers as a boot controller (primary storage).

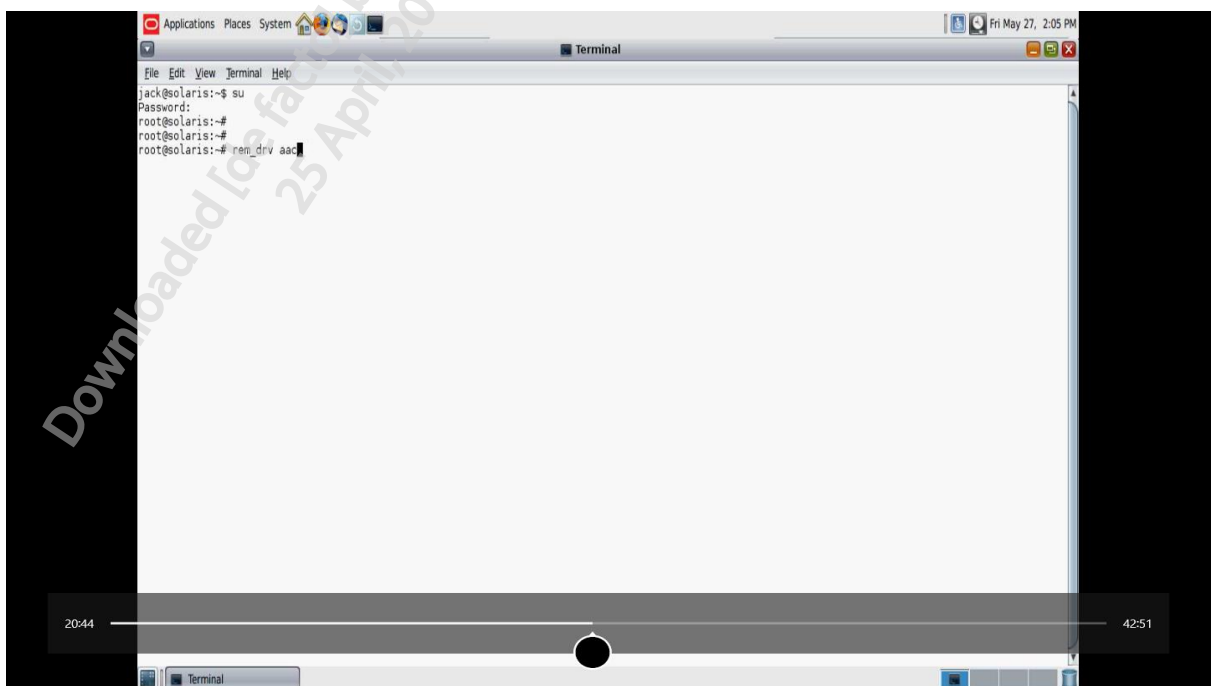
- 1) Copy the `smartpqi.pkg` file and `adddriver.sh` file to a USB flash drive and plug that drive into the installation system.
- 2) Boot to the Solaris 11.3 live media DVD in the installation system. Select first option and press 'Enter'



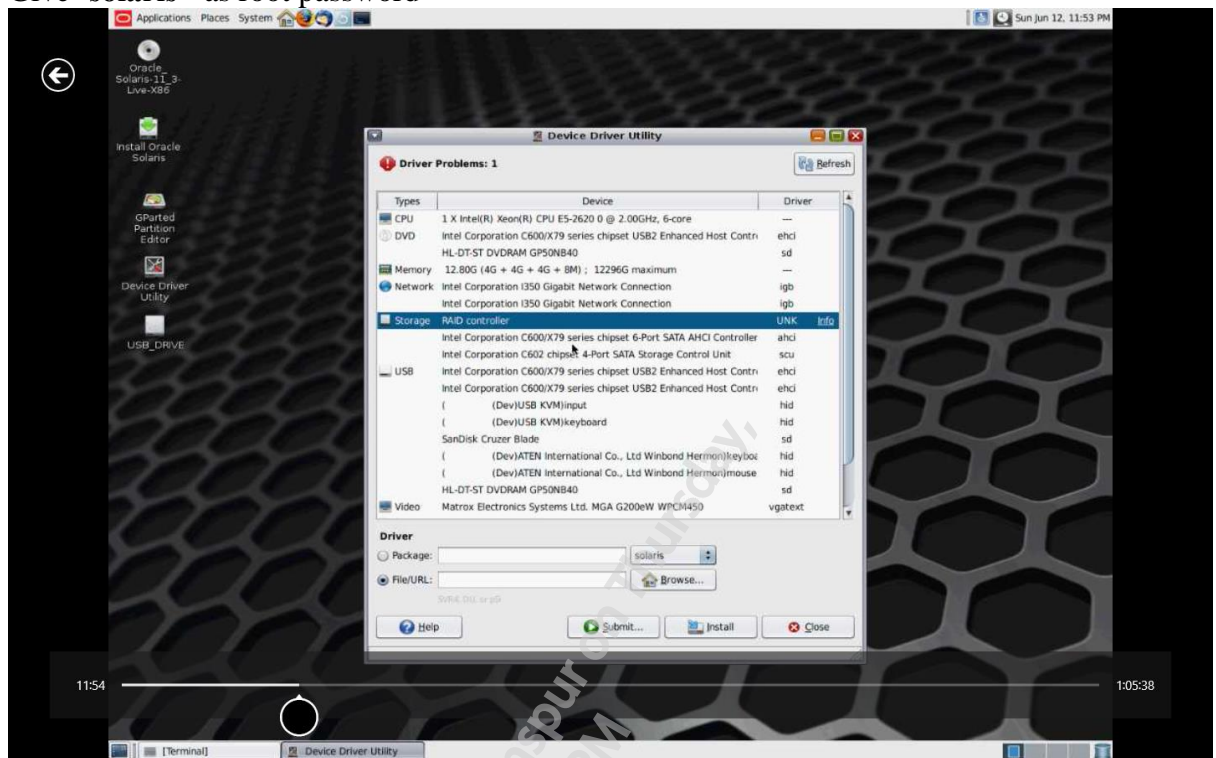
- 3) Select the keyboard (default is 27) and language (default is 3).
- 4) Prompts for login name and Password, give '**jack**' as username and password
- 5) Following GUI will come after a little span.



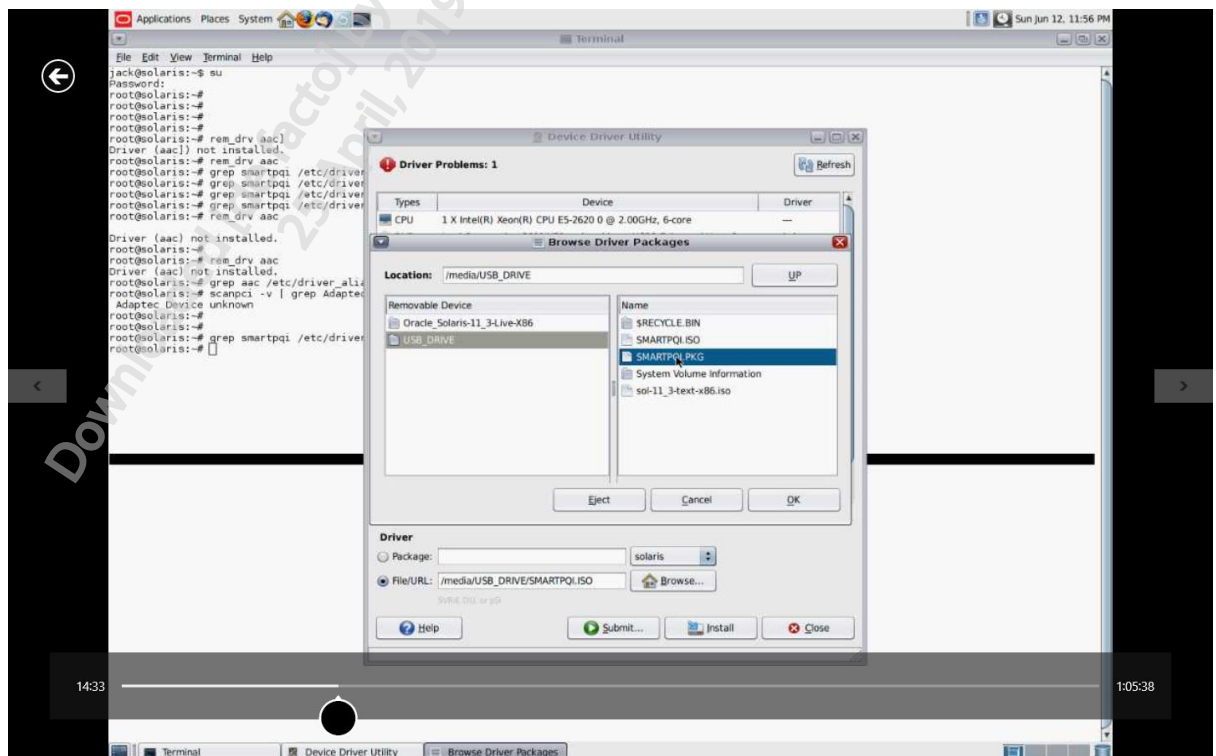
- 6) Open the terminal by clicking on top terminal icon.
- 7) Switch to root user
su
Give the 'solaris' as root password
- 8) Remove In-box aac driver, since smart RAID controllers claimed with the in-box aac driver.
rem_drv aac



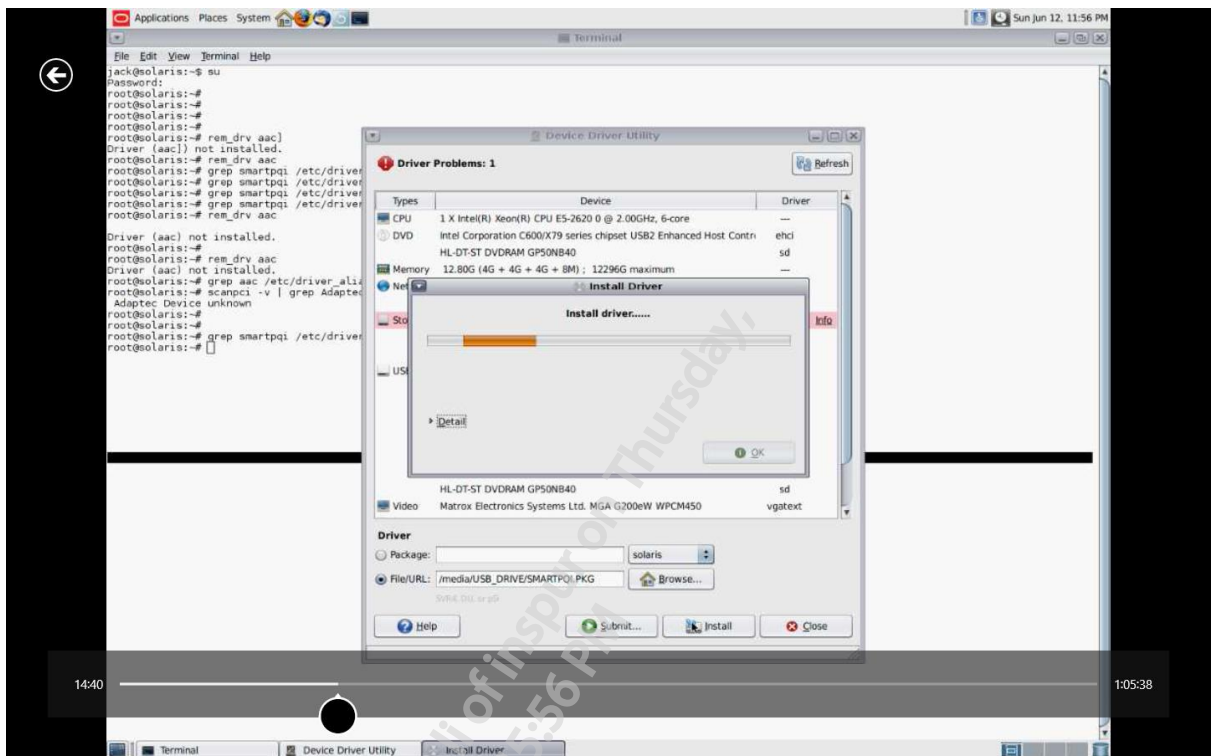
- 9) Now, Open 'Device driver utility' from desktop. It will Prompts for root password. Give 'solaris' as root password



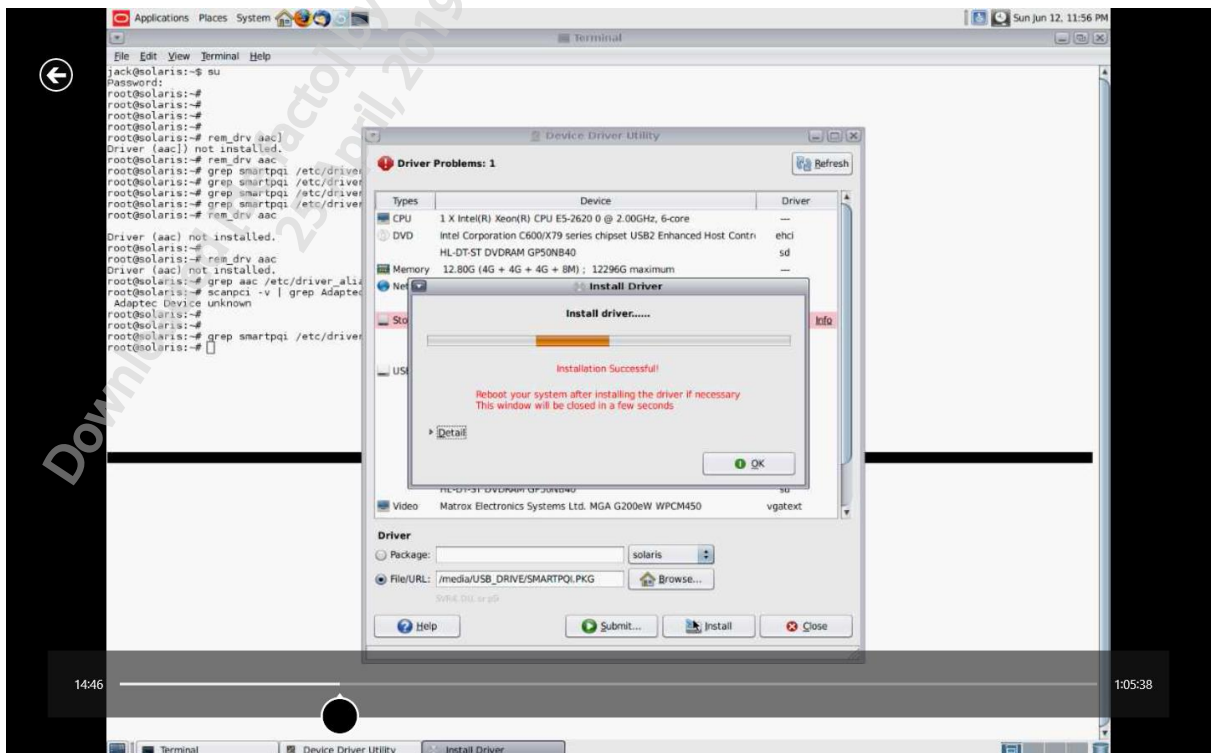
- 10) DD utility will scan and automatically highlights controller or devices which are not claimed the driver.
- 11) Click Browse button to load driver image from USB flash drive.
- 12) Select USB drive and double click on smartpqi .pkg file then click 'ok'.



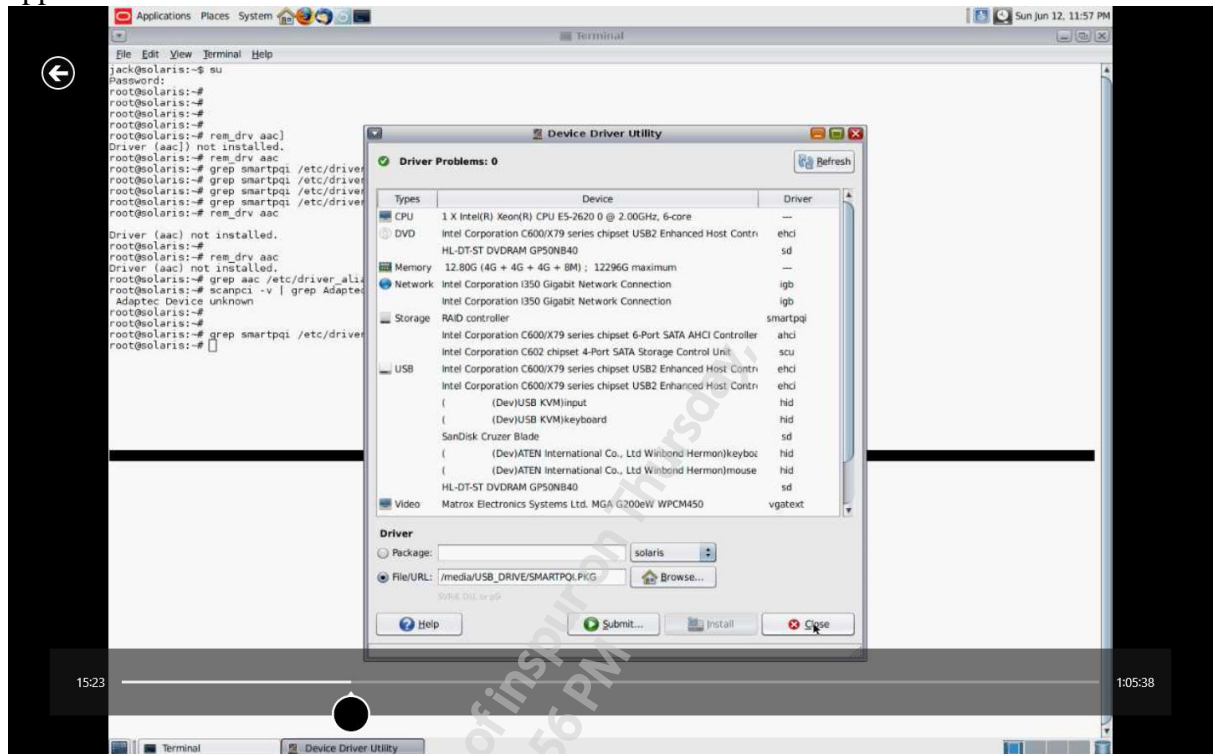
13) Now, click install button.



14) The following message will appear on successful installation of driver image.

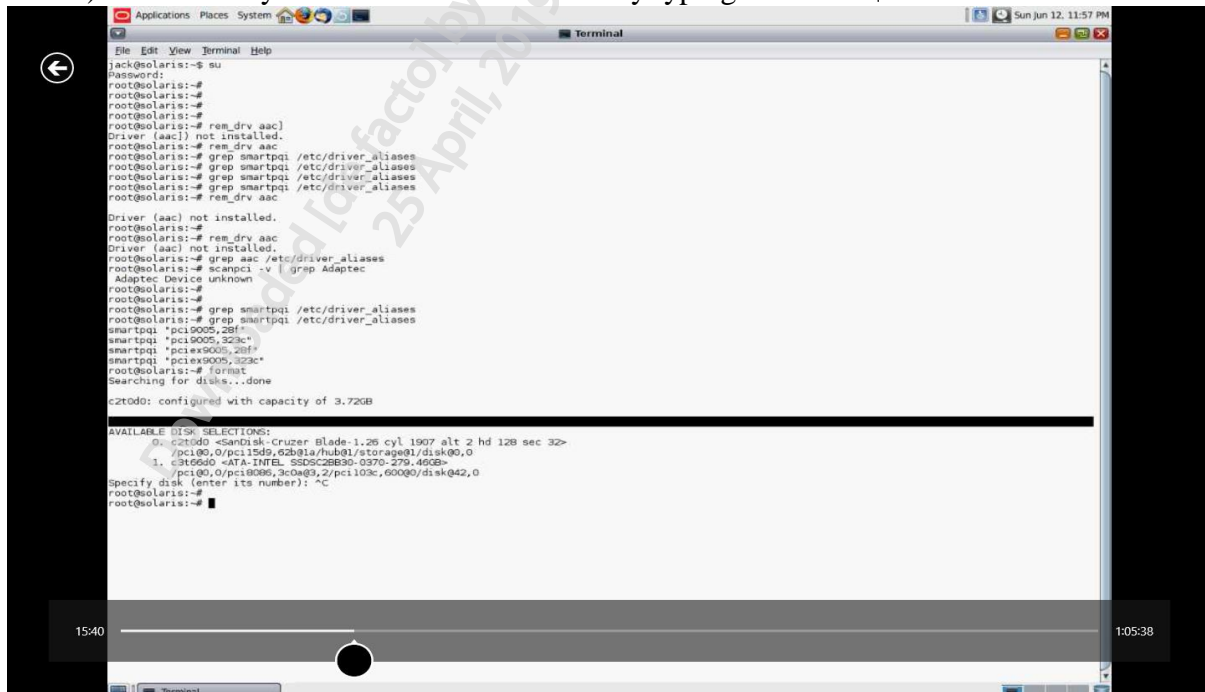


- 15) After installation successful, DD utility will re-scan the devices. following screen appears.



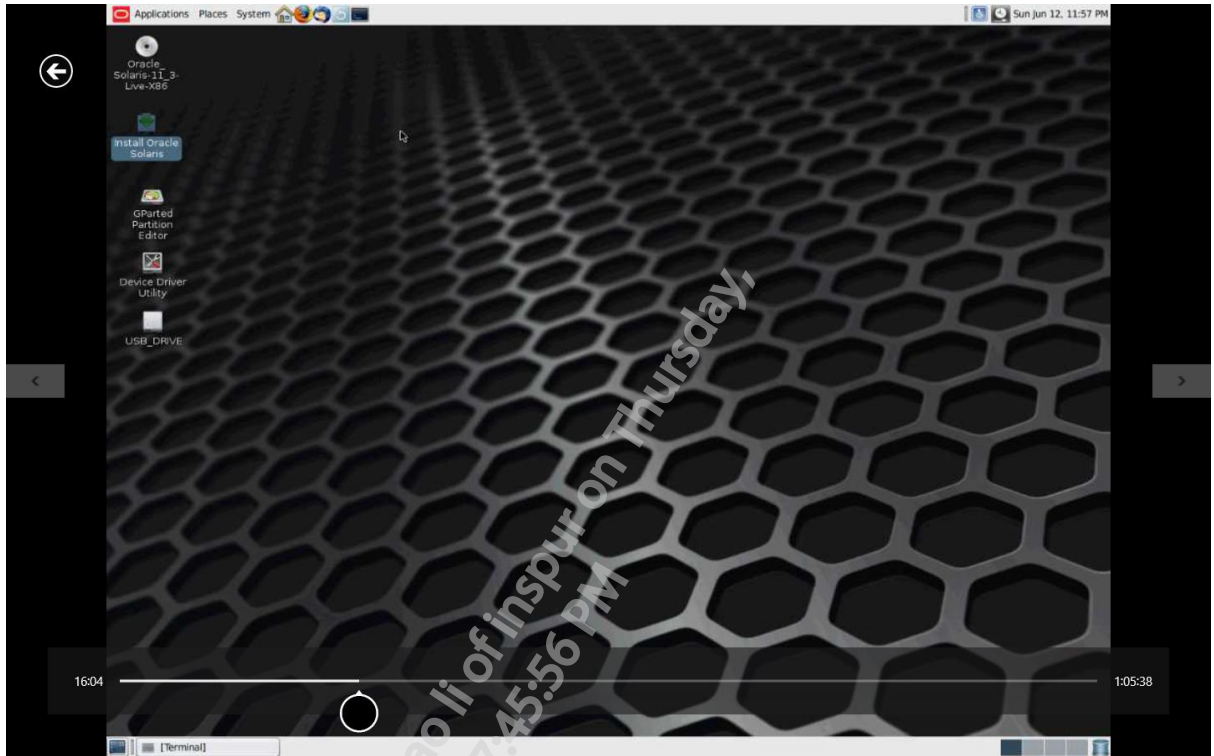
- 16) Now close Device driver utility window.

- 17) At terminal you can see available disks by typing: `#echo | format` command

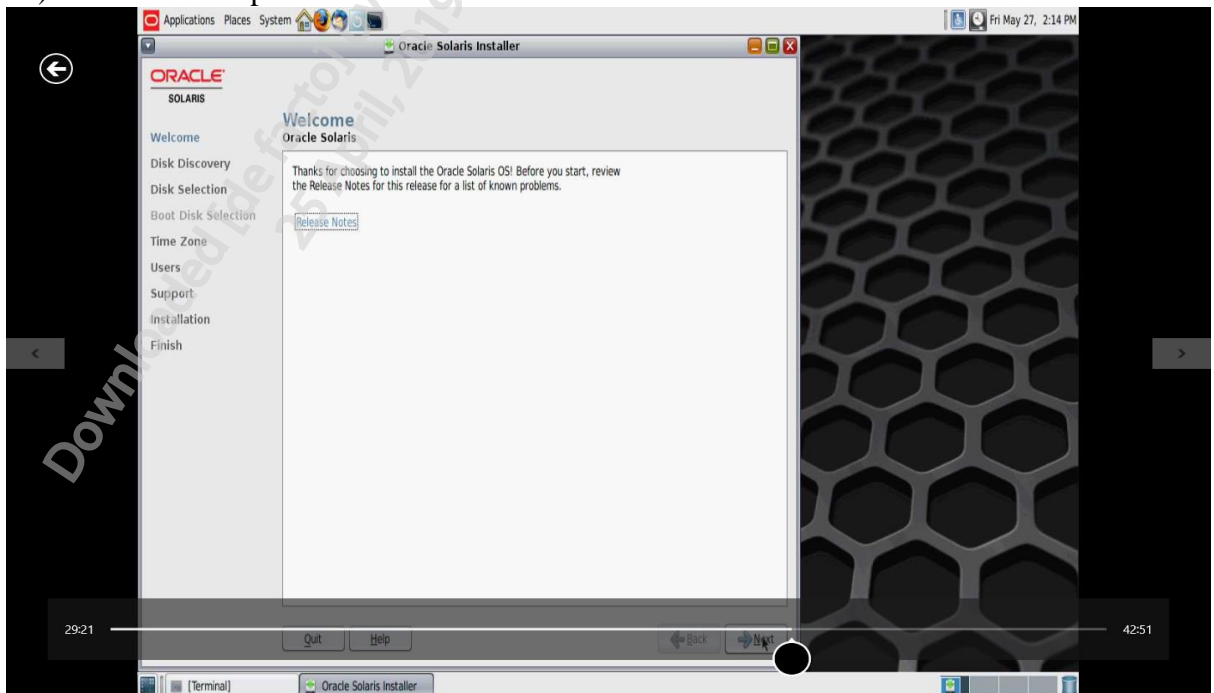


18) Go back to the **Desktop** by typing exit at the command ~# prompt.

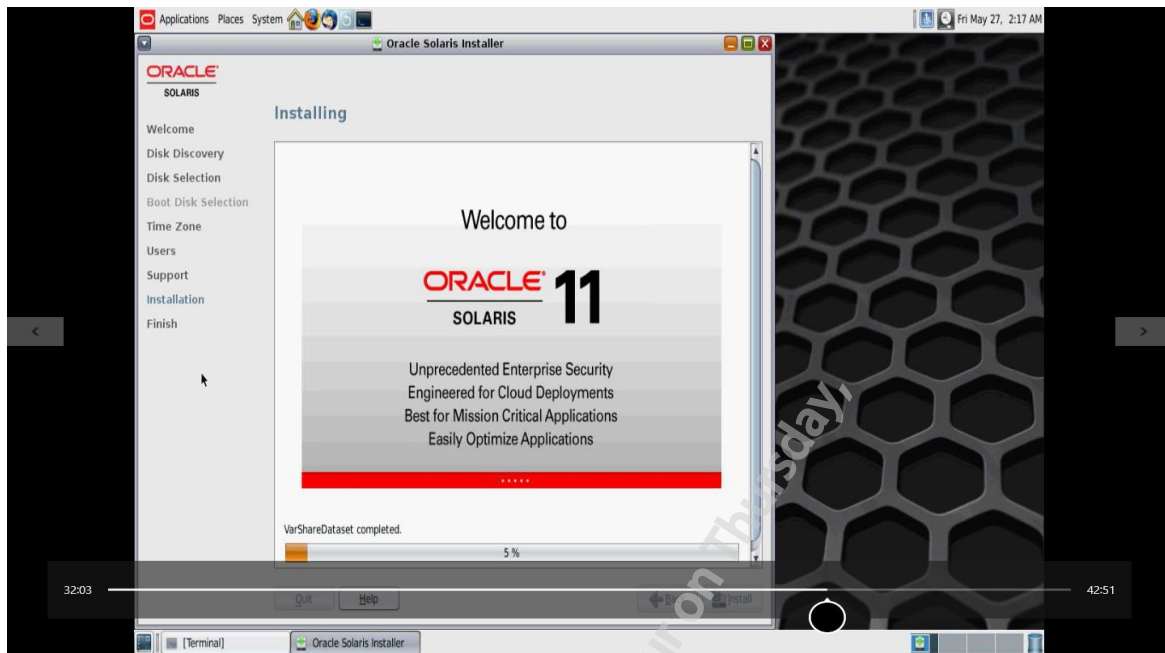
19) Double click '**Install Oracle solaris**' icon for OS installation



20) Proceed the steps for OS installation.



21) You able to see installation progress as following



Note:

22) After OS has been installed, perform following procedure.

23) Open the terminal and copy `adddriver.sh` file from USB drive to `/tmp` directory. As shown below

```
# cp /media/USB_DRIVE/adddriver.sh /tmp/  
# cd /tmp
```

24) Execute `adddriver.sh` script file with parameter `live` as follows

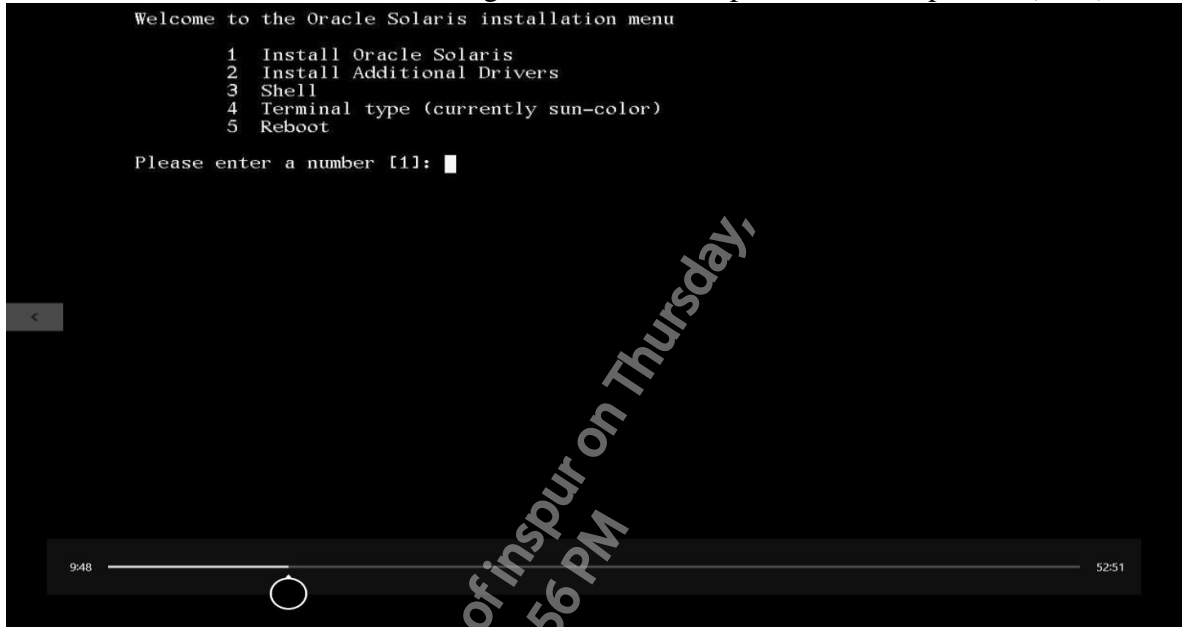
```
# chmod +x adddriver.sh  
# ./adddriver.sh live
```

25) Now, reboot the system

```
# reboot
```

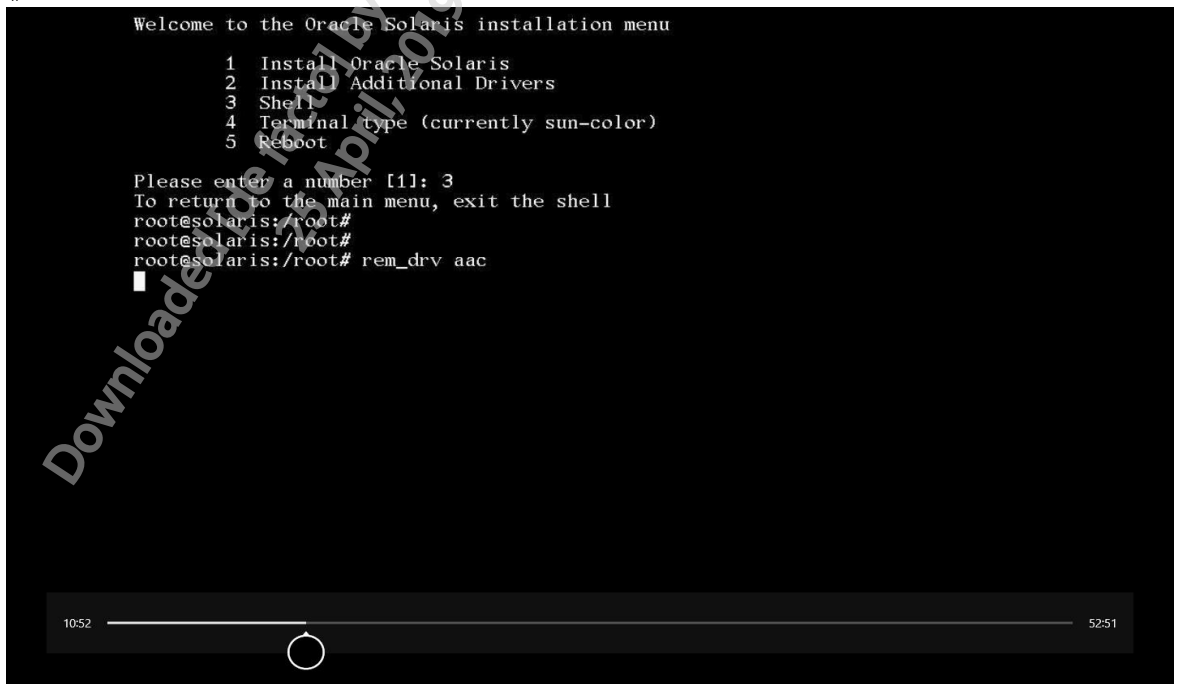
5.2 Using Oracle Solaris 11.3 Text installer:

- 1) Copy the `smartpqi.pkg` file and `adddriver.sh` files to USB flash drive and plug that drive into the installation system.
- 2) Boot to the Solaris 11.3 text installer DVD in the installation system, select the keyboard and language.
- 3) After the DVD boots, a screen showing a choice of five options, select Option 3 (shell)

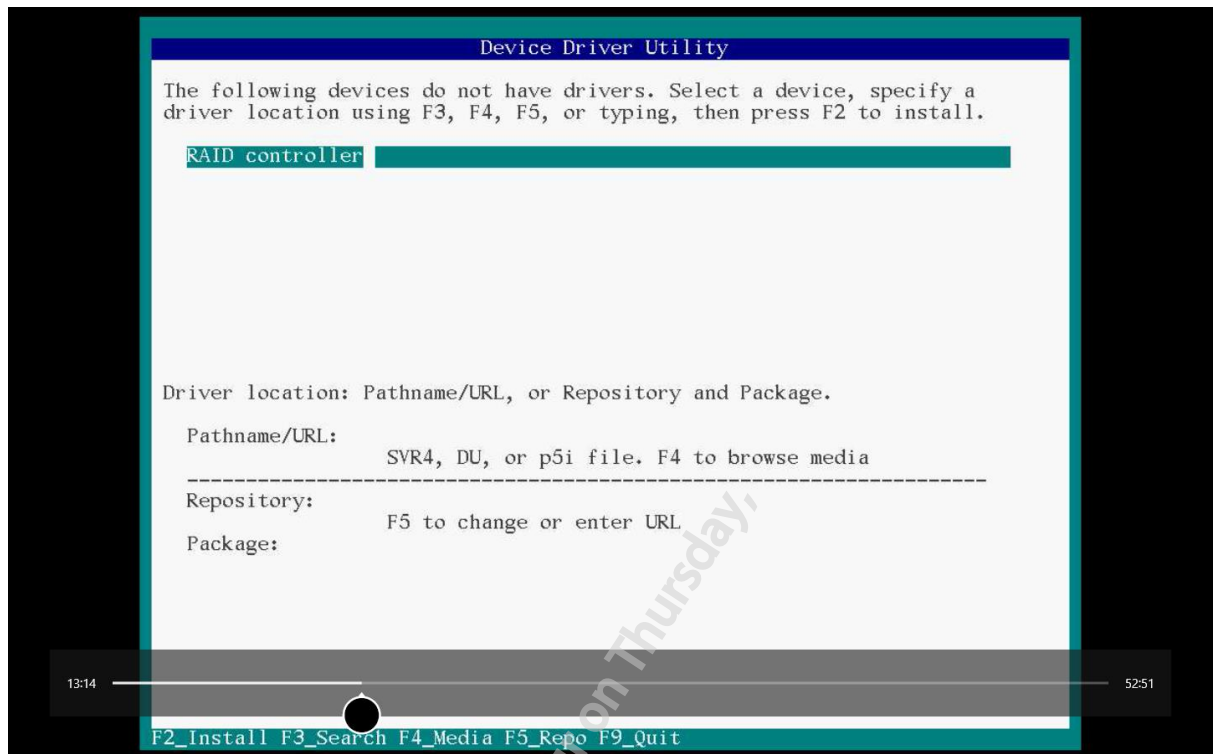


- 4) Remove in-box aac driver and exit the shell

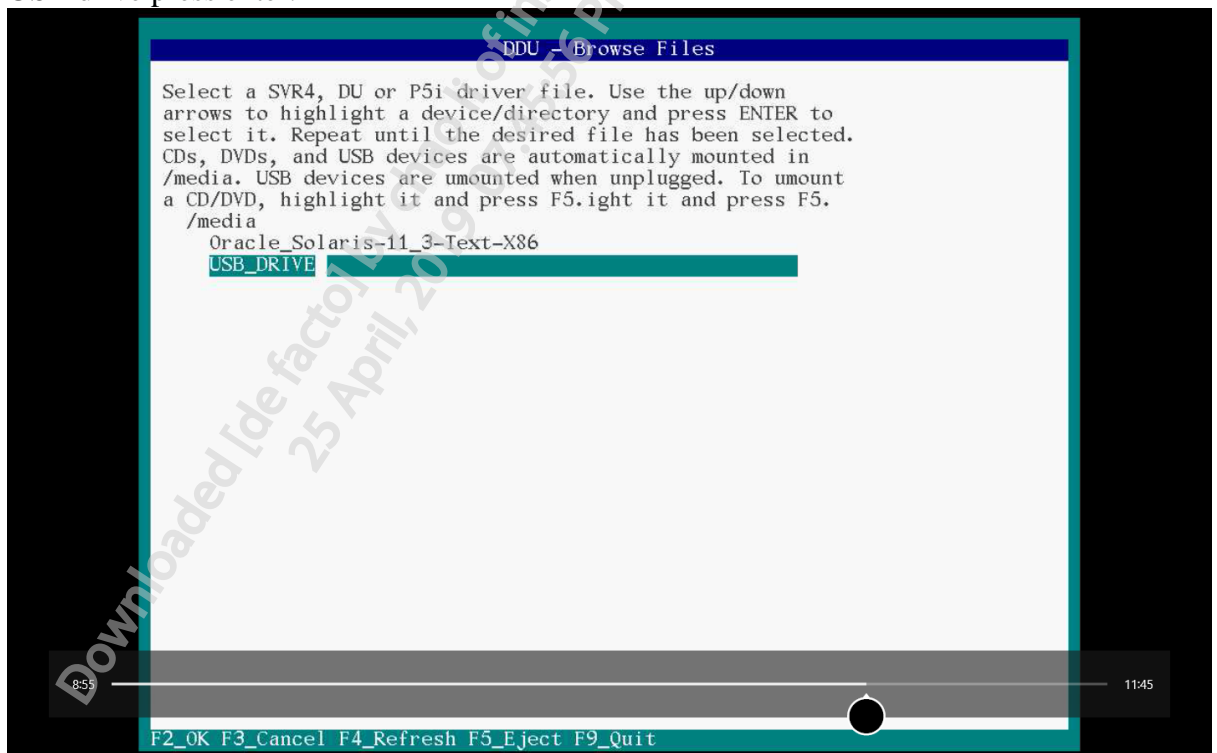
```
#rem_drv aac
#exit
```



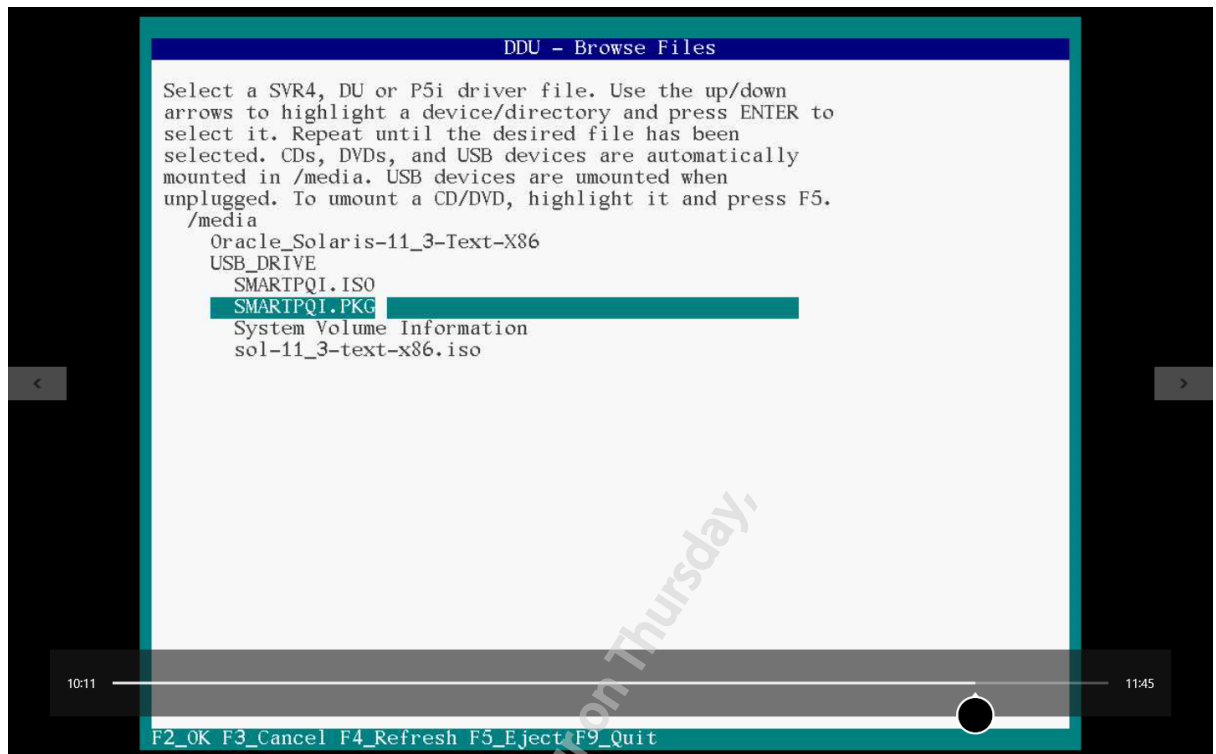
- 5) Select Option 2 (Install additional drivers)
The **Device Driver Utility** screen appears as follows



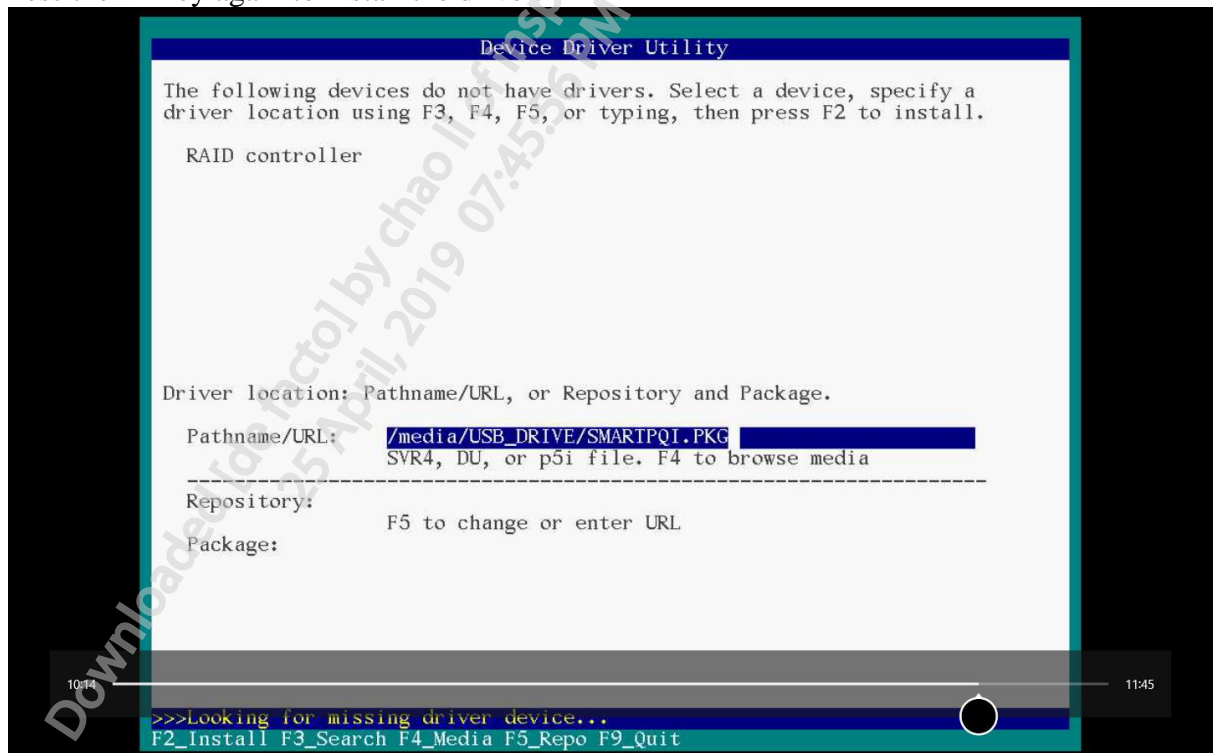
- 6) Press the F4 key (Media) to search for the Driver image file on your flash drive. Select USB drive press enter.



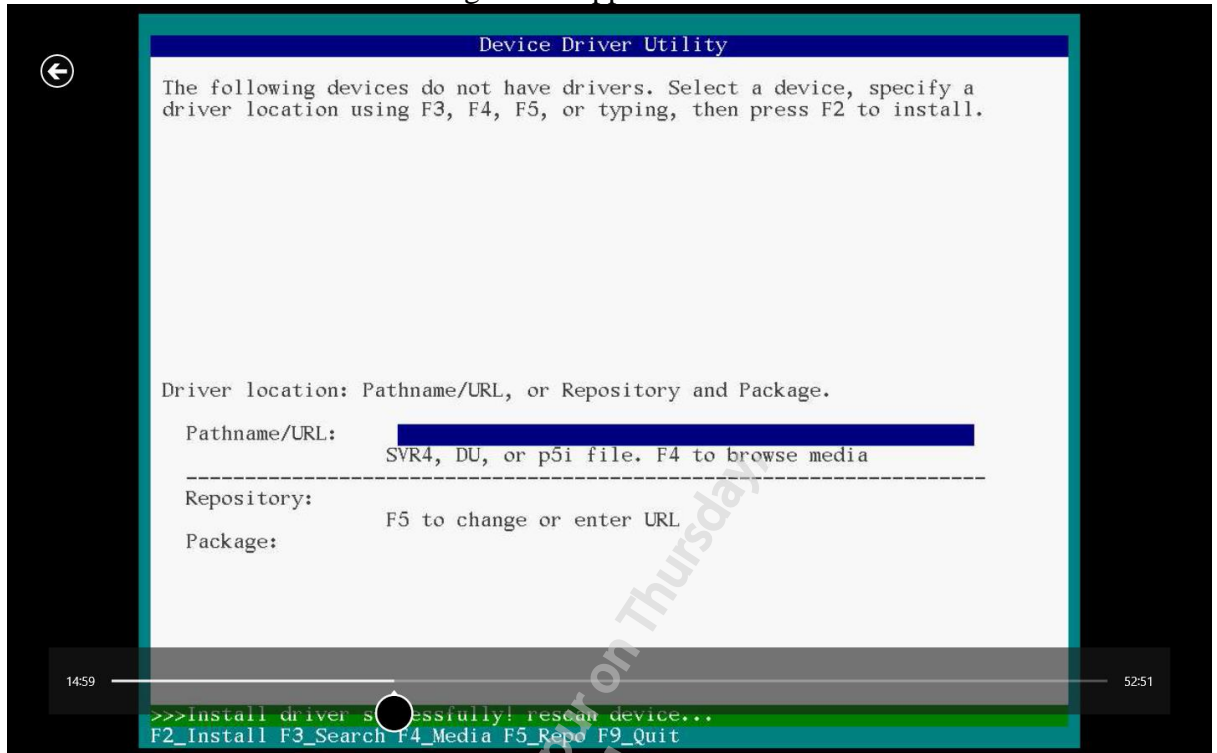
- 7) Find the location of the `smartpq .pkg` file on the flash drive, highlight it, and press the F2 key to select it.



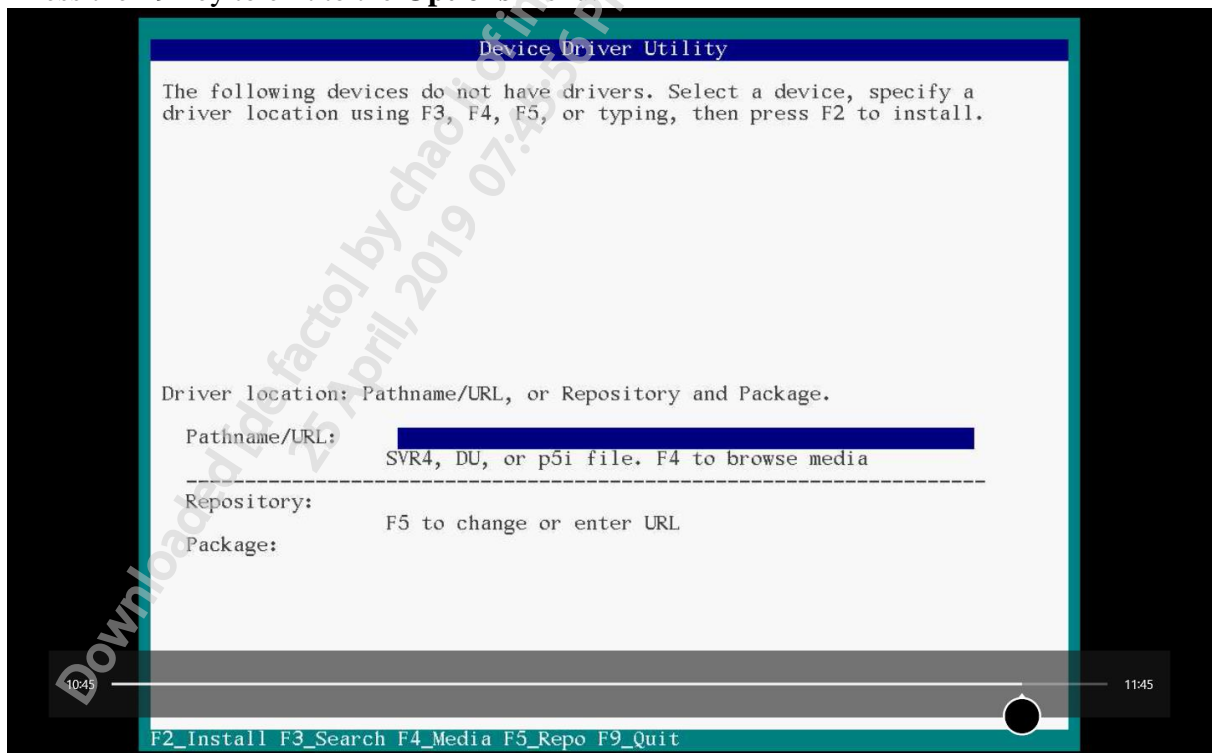
- 8) Press the F2 key again to install the driver.



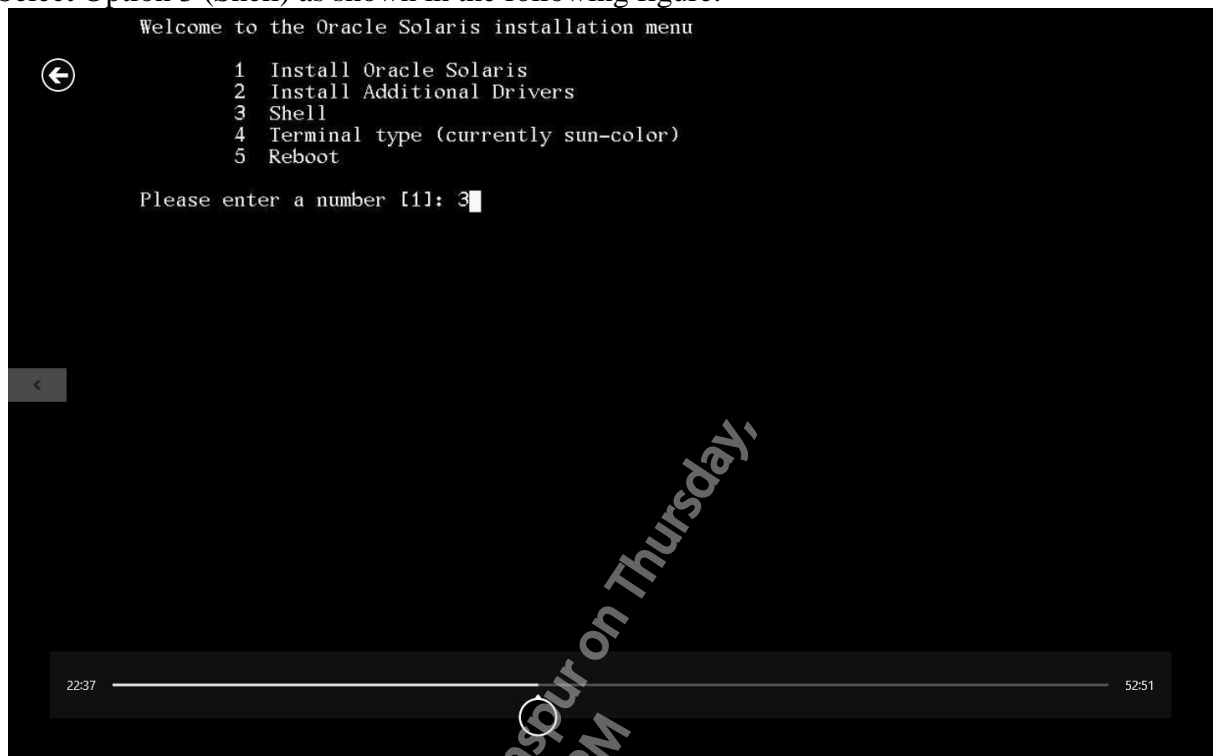
- 9) If the installation succeeds following screen appears.



- 10) Press the F9 key to exit to the **Options** menu.



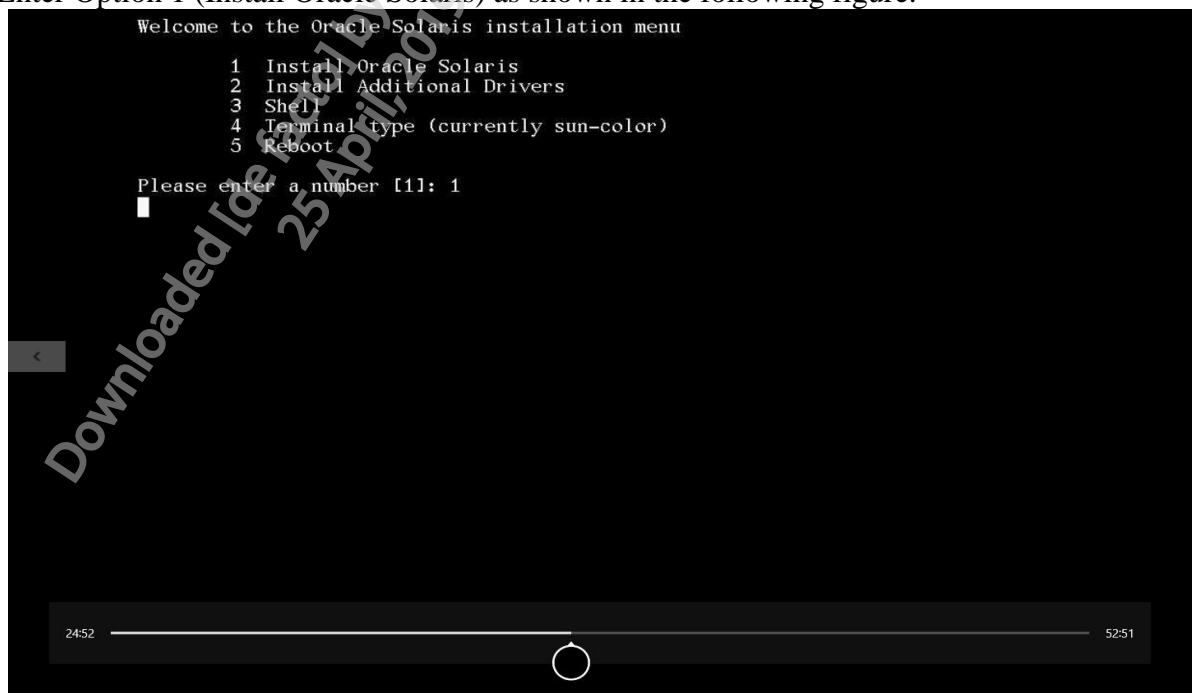
11) Select Option 3 (Shell) as shown in the following figure.



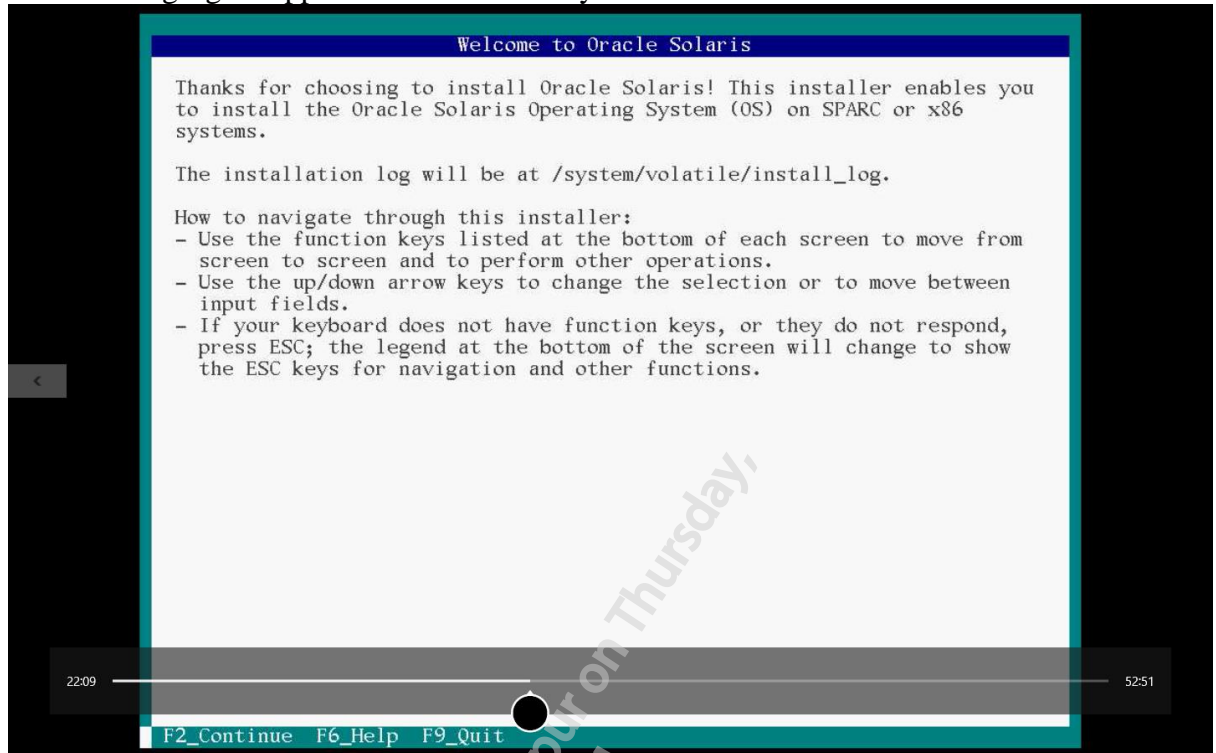
12) At terminal you can see available disks by typing `echo | format` command.

13) Go back to the **Options** menu by typing `exit` at the `~#` prompt.

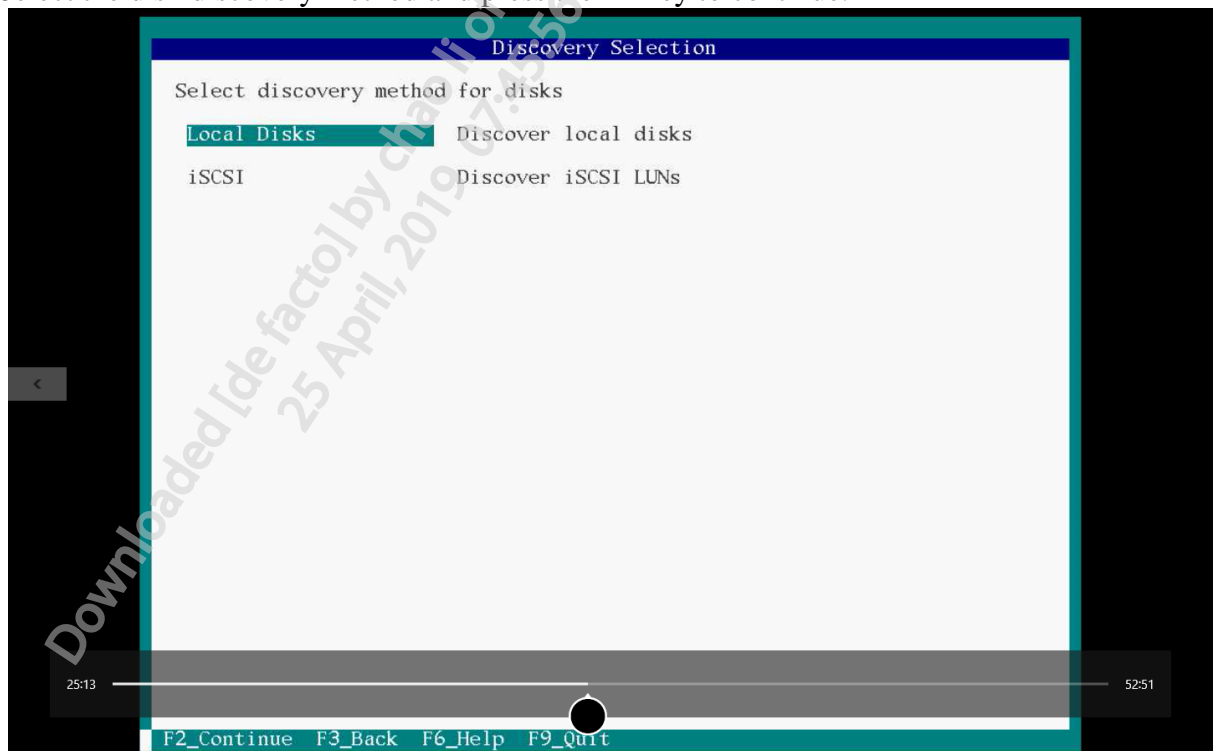
14) Enter Option 1 (Install Oracle Solaris) as shown in the following figure.



15) The following figure appears. Press the F2 key to continue.

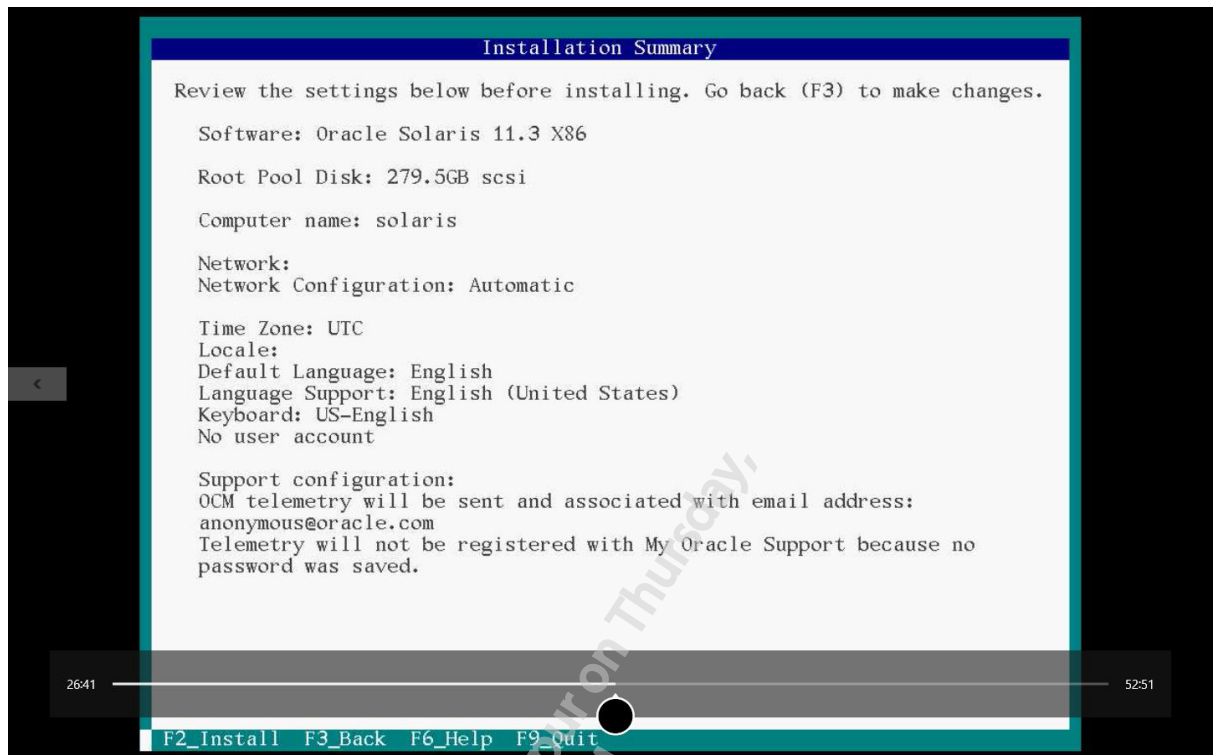


16) Select the disk discovery method and press the F2 key to continue.

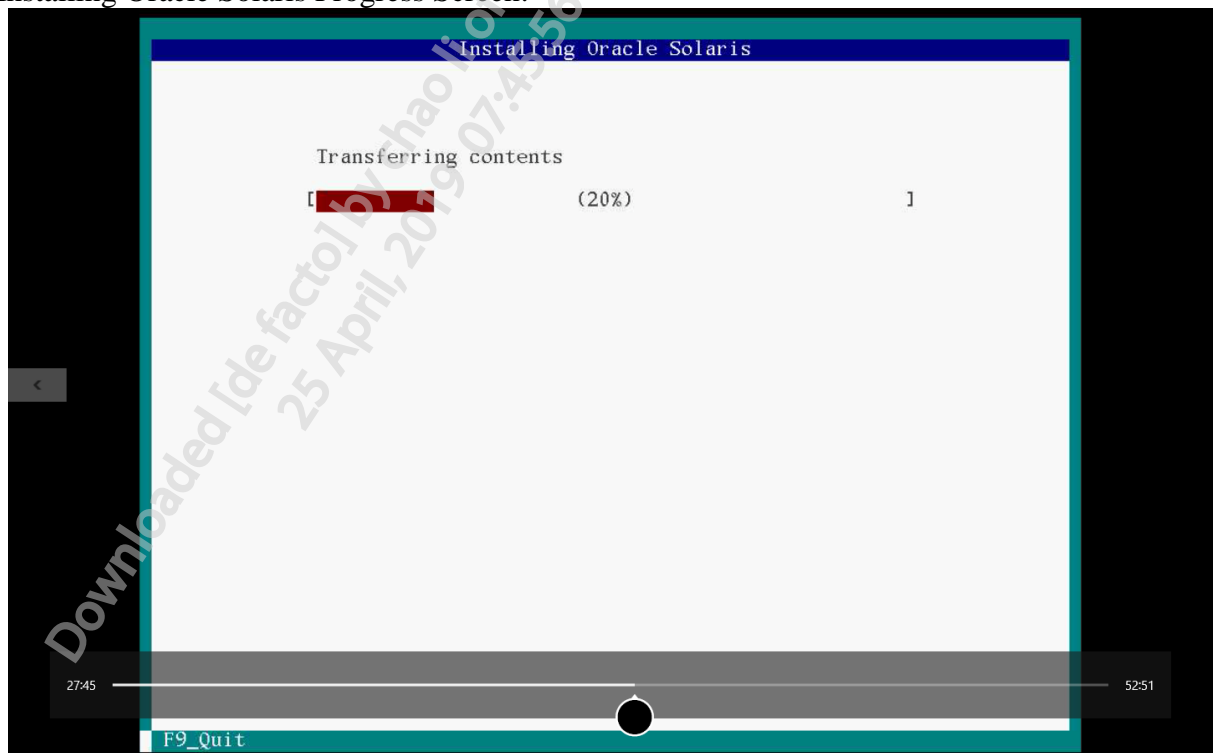


17) Follow installation steps accordingly.

18) At installation summary Press the F2 key to install the Oracle package; or Press the F3 key to go back to make changes.



19) Installing Oracle Solaris Progress Screen.



20) After OS has been installed, press F9 to go back to the **Options** menu.

21) Select Option 3 (Shell)

22) Open the terminal and copy `adddriver.sh` file from USB drive to `/tmp` directory.

```
# cp /media/USB_DRIVE/adddriver.sh /tmp/  
# cd /tmp
```

23) On terminal execute `adddriver.sh` script file with parameter `text` as follows

```
# chmod +x adddriver.sh  
# ./adddriver.sh text
```

24) Reboot system

```
#reboot
```

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