

# SUMMARY: Hardening Solaris 8 with Oracle

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*Date:* 09/13/04

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To: <sunmanagers@sunmanagers.org>

Thanks to John Christian, Tony Schloss and Luc I. Suryo

There replies below, in the order they came to me !

John gave me some info on whether the DBA's would need to use any GUI tools, his message is below....

Hi Colin,

Oh yea, Oracle \*not\* offering a CLI install is a new trend. However, you might consider un-installing (or disabling) all X-related services after the installation is complete. Check with the DBA to see if there are any GUI tools they plan to use long term. Depending on local network security/performance, they could X back to their desktops. This would reduce the need to have X servers running and listening on the server itself.

My reason for asking about Oracle Reports Server was a recent issue I encountered on a database server. The ORS \*requires\* an X-display be available to connect to in order to run reports. Even if the reports are batch jobs not viewed live by anyone, ORS still needs an X server to function. A nice solution is available by setting up a virtual frame buffer using Xvfb and twm. This config allows ORS to run on headless hosts without the display having to be sent back to the developer's workstation. (We were just thrilled the day we found out the giant, redundant, report server hinged on a tenuous X session connected to some developer's Windows PC.) Lemme know if you're interested in the Xvfb and twm config we used.

-John Christian

Tony Schloss sent me a link to a document he wrote for his SANS configuration that hit the nail right on the head and is exactly what I was looking for, so and big thanks to Tony...

I did this as my project for my SANS certification way back; the paper is

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a bit old now, but if you're still using Solaris 8, it should still be

good. Note that it was written for a specific client, and written in the way that client liked procedures/instructions written, so it may not look very good from your perspective. The steps, however elementary, are still valid.

Anyway, hope this help; if you can't get the link for some reason, let me know and I'll email it to you (I think it's in PDF). The title is "Instructions For Installing and Configuring a Hardened Version of the

Solaris 8 Operating System for Use as an Oracle Database Server" --- which sounds a bit like what you're looking for <g>.

[http://www.giac.org/practical/Tony\\_Schloss\\_GCUX.zip](http://www.giac.org/practical/Tony_Schloss_GCUX.zip)

Good luck.

Tony

Luc I Suryo said that he uses JASS to install servers with Solaris 8 and Oracle and kindly sent me the profile....

yup we have... we indeed use JASS

>  
> *I have a requirement for a webserver and Oracle 9i. All our current*  
> *webservers are hardened via Jass and this website*  
> <http://www.spitzner.net/>  
>  
> *What I want to know is, has anyone hardened a Solaris 8 box running*  
> *Oracle 9i (or even earlier versions ?).*  
>  
> *If so what are the minimum packages required to run Oracle ?*  
I worked with the JASS ppl. couple years ago and here what works for me  
(solaris 8 tested with both Oracle 8 and Oracle 9)

Below is our profile.. you could delete the raid and freeware stuff  
hope this may help abit:

-ls

```
#  
# This for Base server  
#
```

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```
# install_type MUST be first
install_type initial_install

# install system as standalone
system_type standalone

# start with the minimal required number of packages
cluster SUNWCreq

# To Support X-Application need the LibC library
package SUNWlibC add
package SUNWlibCx add

# To support 64 bit
package SUNWcarx add
package SUNWcslx add
package SUNWcslx add
package SUNWcsxu add
package SUNWesxu add
package SUNWhmdx add
package SUNWkvmx add
package SUNWlmsx add
package SUNWlocx add
package SUNWpdx add

# Manual Pages
package SUNWman add
package SUNWesu add
package SUNWdoc add

# To Support NIS
package SUNWypr add
package SUNWypu add
package SUNWsprot add
package SUNWnlsr add
package SUNWnlsu add

# To support the Network Time Protocol
package SUNWntpr add
package SUNWntpu add

# To use SunOS tools
package SUNWscpu add
package SUNWbcp add

# To support Simple Mail Transport Protocol
package SUNWsndmu add
package SUNWsndmr add

# To support truss
package SUNWtoo add
```

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package SUNWtoox add

# To support snoop

package SUNWfns add

package SUNWfnsx add

# To support Secure Shell X Tunneling

package SUNWxcu4 add

package SUNWxcu4x add

package SUNWxcu4t add

package SUNWxwplt add

package SUNWxwplx add

package SUNWxwrtl add

package SUNWxwrtx add

# To support Secure Shell

package SUNWxwice add

package SUNWxwicx add

# To Support DiskSuite

package SUNWctpls add

package SUNWmfrun add

# To support Semaphore control

package SUNWipc add

package SUNWipcx add

# To Support sar/sag/accounting

package SUNWaccu add

package SUNWaccr add

# To Support SNMP

package SUNWmibii add

package SUNWsasnm add

package SUNWsasnx add

package SUNWsadmi add

package SUNWsadmx add

package SUNWsacom add

# To Support Fibre Channel/Raid system

package SUNWses add

package SUNWsesx add

package SUNWssad add

package SUNWssadx add

package SUNWssaop add

package SUNWfctl add

package SUNWfctlx add

package SUNWfcip add

package SUNWfcipx add

package SUNWfcip add

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## SunManagers: SUMMARY: Hardening Solaris 8 with Oracle

package SUNWfcpx add

package SUNWluxd add  
package SUNWluxdx add  
package SUNWluxl add  
package SUNWluxop add  
package SUNWluxox add

package SUNWqlc add  
package SUNWqlcx add

# To Support Java

package SUNWj2pi add  
package SUNWjcom add  
package SUNWjcomx add  
package SUNWjmfj add  
package SUNWjsnmp add  
package SUNWjvdev add  
package SUNWjvjit add  
package SUNWjvman add  
package SUNWjvrt add  
package SUNWj2dev add  
package SUNWj2man add  
package SUNWj2rt add  
package SUNWj3dev add  
package SUNWj3man add  
package SUNWj3rt add

# Several Freeware pkgs

package SUNWzip add  
package SUNWzlib add  
package SUNWzlibx add  
package SUNWzsh add  
package SUNWbash add  
package SUNWbash add  
package SUNWtcsh add  
package SUNWless add  
package SUNWbzipx add  
package SUNWbtool add  
package SUNWbtoox add

# To support Quad Fast Ethernet

package SUNWqfed add  
package SUNWqfedu add  
package SUNWqfedx add

# To have headers file in /usr/include

package SUNWaudh add  
package SUNWhea add  
package SUNWsrh add  
package SUNWxwhl add

## SunManagers: SUMMARY: Hardening Solaris 8 with Oracle

```
package SUNWlibm add
package SUNWlibms add
```

```
partitioning explicit
```

```
filesystems c2t0d0s0 2048 /
filesystems c2t0d0s1 2048 swap
```

```
# Add for DiskSuite
filesystems c2t0d0s7 10
```

```
# rest of disk for export
filesystems c2t0d0s3 free /export
```

```
# If Second disk is installed and DiskSuite
#### filesystems c0t1d0s0 free
#### filesystems c0t1d0s7 10
```

```
# If Third disk is installed and DiskSuite
#### filesystems c0t2d0s0 free
#### filesystems c0t2d0s7 10
```

```
locale en_US
```

Original message....

Hi All,

I have a requirement for a webserver and Oracle 9i. All our current webserver are hardened via Jass and this website <http://www.spitzner.net/>

What I want to know is, has anyone hardened a Solaris 8 box running Oracle 9i (or even earlier versions ?).

If so what are the minimum packages required to run Oracle ?

I'm hoping to just install the core cluster and add a few packages (I know Oracle requires X Windows, but am not sure of which packages).

It would be nice to be able to set this all up on my jumpstart server so I have a "hardened oracle" image.

I've googled this with no luck...

Any help is greatly appreciated and I will summarise...

Thanks,  
Colin.

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This Message has been Checked at MSXI for all known Viruses.  
You open this at your own risk. Please make sure all replies are  
also virus free.

Also we do not accept or send Attachments of the type .exe, .vbs,  
scr, or .bat due to the virus risk they can contain. These types of  
attachments will be stripped from the message.

MSXI

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sunmanagers mailing list  
sunmanagers@sunmanagers.org  
<http://www.sunmanagers.org/mailman/listinfo/sunmanagers>