

# **Service Pack Roll: Users Guide**



**Version 4.2.1 Edition**



**Service Pack Roll: Users Guide :**

Version 4.2.1 Edition

Published Dec 2006

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# Preface

The Rocks Service Pack Roll contains fixes for Rocks version 4.2.1.

# Chapter 1. Overview

**Table 1-1. Summary**

Name	service-pack
Version	4.2.1
Maintained By	Rocks Group
Architecture	i386, x86_64, ia64
Compatible with Rocks	4.2.1

**Table 1-2. Roll Compatibility**

Roll	Requires <sup>a</sup>	Optional <sup>b</sup>	Conflicts
area51		X	
base	X		
bio		X	
condor		X	
ganglia		X	
grid		X	
hpc	X		
java		X	
kernel	X		
os (disk 1)	X		
os (disk 2)	X		
os (disk 3)		X	
os (disk 4)		X	
pbs		X	
service-pack	X		
sge		X	
viz		X	
web-server	X		

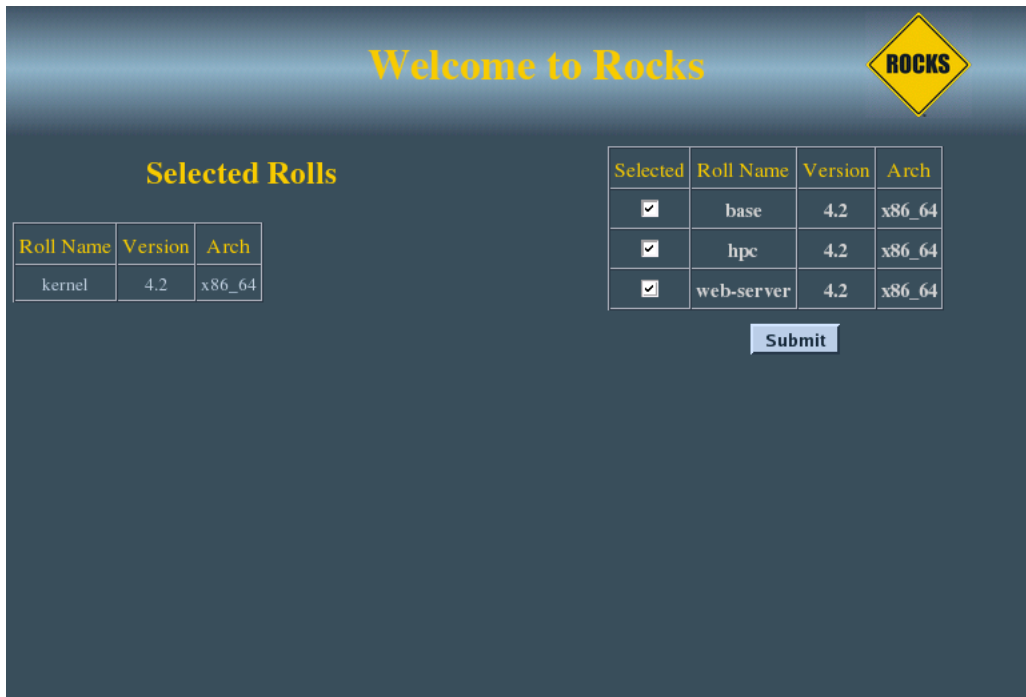
Notes:

- a. You may also substitute your own OS CDs for the Rocks OS Roll CDs. In this case you must use all the CDs from your distribution and not use any of the Rocks OS Roll CDs.
- b. Only Rolls that have been verified as compatible with this Roll are listed. Other Rolls will likely work, but have not been tested by the maintainer of this Roll.

# Chapter 2. Installing

## 2.1. On a New Server

The service-pack Roll should be installed during the initial installation of your server (or cluster). This procedure is documented in section 1.2 of the Rocks usersguide. You should select the service-pack Roll from the list of available rolls when you see a screen similar to the one below.



## 2.2. On an Existing Server

The Service Pack Roll can be installed on running frontend.

The following procedure will install and configure the roll -- no reboot will be required.

First you'll need to install the roll installation program, then you'll install the roll.

For i386, as root, execute:

```
# rpm -Uvh http://www.rocksclusters.org/ftp-site/pub/rocks/rocks-4.2.1/upgrade/roll-install-4.2.1-0.  
# roll-install http://www.rocksclusters.org/ftp-site/pub/rocks/rocks-4.2.1/service-pack-4.2.1.2-1.i3  
# cd /home/install  
# rocks-dist dist
```

For x86\_64, execute:

```
# rpm -Uvh http://www.rocksclusters.org/ftp-site/pub/rocks/rocks-4.2.1/upgrade/roll-install-4.2.1-0.  
# roll-install http://www.rocksclusters.org/ftp-site/pub/rocks/rocks-4.2.1/service-pack-4.2.1.2-1.x8  
# cd /home/install  
# rocks-dist dist
```

If your frontend doesn't have access to the outside internet, download the roll-install package and Service Pack Roll ISO image and execute:

```
# rpm -Uvh roll-install-4.2.1-0.<arch>.rpm  
# roll-install service-pack-4.2.1.2-1.<arch>.disk1.iso  
# cd /home/install  
# rocks-dist dist
```

Substitute *i386* or *x86\_64* for *<arch>* based on the version of Rocks you installed.

## 2.3. Adding the Roll to Nodes

To add the the Service Pack Roll to the nodes of your cluster, you'll need to reinstall the nodes.

To reinstall all your nodes, as root execute:

```
# tentakel '/boot/kickstart/cluster-kickstart-pxe'
```



# Chapter 3. Fixes Included in the Service Pack Roll

## 3.1. Fixes Included in 4.2.1.1

- The name service (named) was not properly reloaded after a node was added with `insert-ethers`. The issue is with the configuration file `/etc/rndc.conf` from the `bind` package found on RHEL 4 update 3 and 4.

The fix is to replace the stock `/etc/rndc.conf` file with a known good one.

- On uni-processor nodes, the symbolic link to the kernel build environment `/usr/src/linux-2.6` was not properly set.

This is fixed by adding the configuration script `/etc/rc.d/rocksconfig.d/pre-10-prep-kernel-source` which runs after the buggy configuration script `/etc/rc.d/rocksconfig.d/pre-09-prep-kernel-source`.

## 3.2. Fixes Included in 4.2.1.2

- Fix for the `/tmp/sdb` error dialog which appears during installation.

You no longer need to specify `nousbstorage` to workaround the problem.

- Fix for clusters with 10/100 Mb ethernet networks.

On clusters with 10/100 Mb ethernet networks, there were reports of compute nodes failing while trying to install the `eclipse` package (a 100 MB package). This fix makes the Avalanche Installer more robust when downloading large packages on relatively slow internal networks.

# Appendix A. Rocks Copyright

Rocks  
www.rocksclusters.org  
version 4.2.1 (Cydonia)

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