Recovery Disk for Appliances How to Guide

Contents

Overview

PINsafe Hardware appliances allow an ISO image to be generated to build a new hardware appliance from new hardware, also known as a 'bare metal recovery'. The created ISO image creates a system backup at the moment of its creation. This can then be brought up to date using regular backups, see Automated FTP Backups. The CMI is not available during ISO creation.

It is recommended to create ISO images before and after any major system changes.

Prerequisites

Recovery CD Creation Prerequisites

PINsafe hardware appliance

CDROM

Writeable CD's

Recovery CD Usage Prerequisites

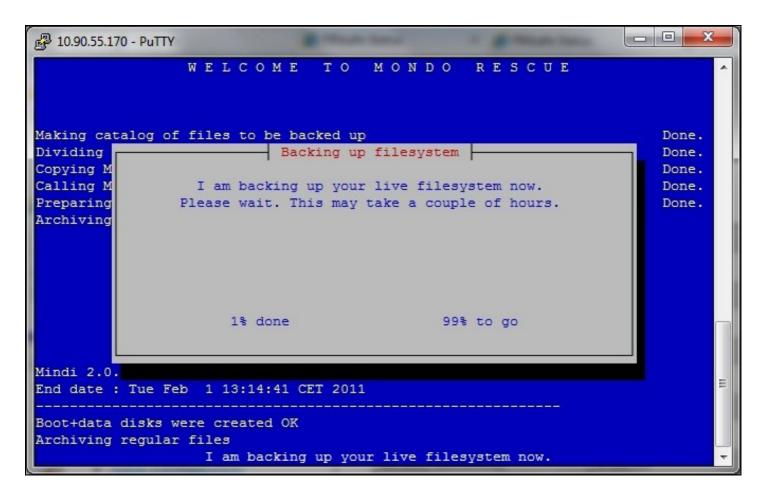PINsafe Hardware appliance to be installed. **Note: This must be of the same hardware type**

Recovery CD's created earlier

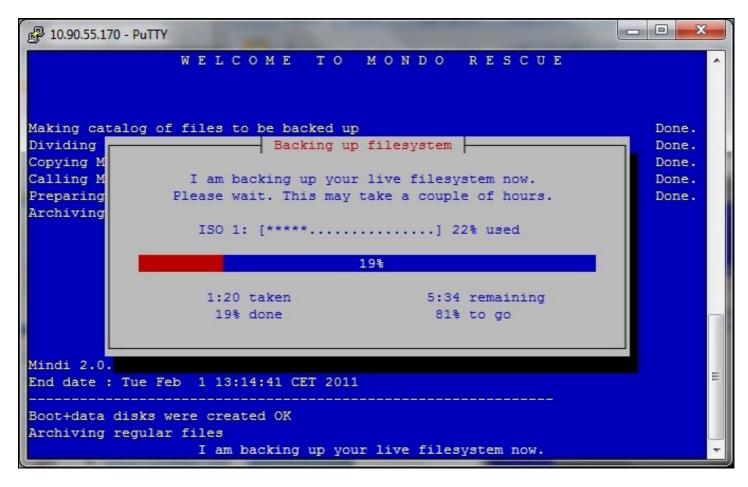Keyboard, Monitor attached to PINsafe Hardware appliance

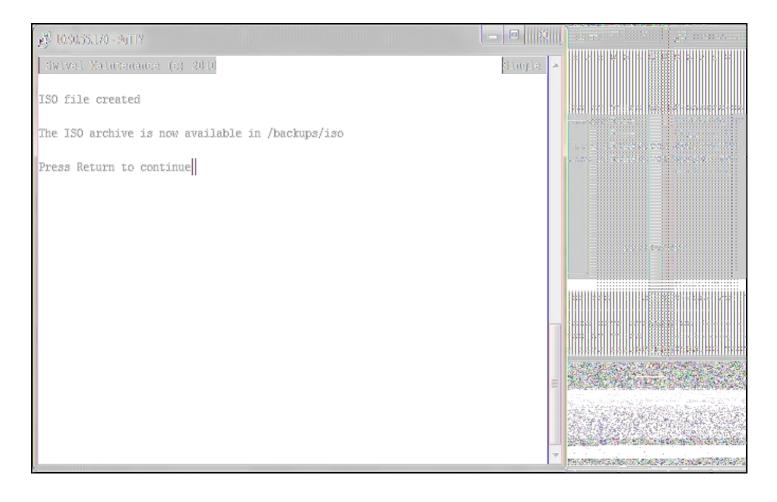## Creating the Recovery CD

Create the ISO image

From the PINsafe CMI select the Option for 'Backups and Restore Options', then navigate to the create ISO image option. At the prompt *Are you sure? (Yes/No):* enter *y*

10.90.55.170 - PuTTY

```
          W E L C O M E   T O   M O N D O   R E S C U E


Making catalog of files to be backed up                              Done.
Dividing          ┤ Backing up filesystem ├                          Done.
Copying M                                                            Done.
Calling M      I am backing up your live filesystem now.            Done.
Preparing     Please wait. This may take a couple of hours.         Done.
Archiving




              1% done                    99% to go




Mindi 2.0.
End date : Tue Feb  1 13:14:41 CET 2011
-----------------------------------------------------------------
Boot+data disks were created OK
Archiving regular files
              I am backing up your live filesystem now.
```

10.90.55.170 - PuTTY

```
          W E L C O M E   T O   M O N D O   R E S C U E



Making catalog of files to be backed up                              Done.
Dividing filelist into sets                                          Done.
Copying Mondo's core files to the scratch directory                  Done.
Calling MINDI to cr ┤ Generating boot+data disks ├

                  Generating boot+data disks

                  ┌──────────────────────────┐
                  │            1%            │
                  └──────────────────────────┘


              Working...                              |




Using modules for kernel: 2.6.9-89.ELsmp
Using modules for kernel: 2.6.9-89.ELsmp
Mindi-BusyBox v1.7.3-r1892 (2008-03-22 10:54:33 CET) multi-call binary
Analyzing dependency requirements
                                                    48%      -
              Generating boot+data disks
```

10.90.55.170 - PuTTY

```
             W E L C O M E   T O   M O N D O   R E S C U E



Making catalog of files to be backed up                              Done.
Dividing ┌──────────────── Backing up filesystem ────────────────┐   Done.
Copying M │                                                       │   Done.
Calling M │       I am backing up your live filesystem now.       │   Done.
Preparing │       Please wait. This may take a couple of hours.   │   Done.
Archiving │                                                       │
          │         ISO 1: [*****...............] 22% used        │
          │  ┌──────────────────────────────────────────────────┐ │
          │  │███████████              19%                       │ │
          │  └──────────────────────────────────────────────────┘ │
          │       1:20 taken                  5:34 remaining      │
          │         19% done                    81% to go        │
          │                                                       │
          └───────────────────────────────────────────────────────┘
Mindi 2.0.
End date : Tue Feb  1 13:14:41 CET 2011
----------------------------------------------------------------
Boot+data disks were created OK
Archiving regular files
             I am backing up your live filesystem now.
```

10.90.55.170 - PuTTY

```
             W E L C O M E   T O   M O N D O   R E S C U E



Making catalog of files to be backed up                              Done.
Dividing filelist into sets                                          Done.
Copying Mondo's ┌──────────────── Alert ────────────────┐            Done.
Calling MINDI to│                                        │            Done.
Preparing to arc│ Mondo Archive has finished its run. Please │        Done.
Archiving regula│ press ENTER to return to the shell prompt. │        Done.
Archiving large │                                        │            Done.
Writing any rema│                                        │            Done.
                │            ┌──────────┐                │            Done.
Backup and/or ve│            │    OK    │                │   fine.
                │            └──────────┘                │
                └────────────────────────────────────────┘


35440 extents written (69 MB)Mondoarchive ran OK.
                  [Main] libmondo-fork.c->run_prog_in_bkgd_then_exit#784:
Call to mkisofs to make ISO (ISO #2) ...OK
/var/cache/mindi/mondorescue.iso, a boot/utility CD, is available if you want i
Data archived OK.
Mondo Archive has finished its run. Please press ENTER to return to the shell pr
```

```
Swivel Maintenance (c) 2010                          Single

ISO file created

The ISO archive is now available in /backups/iso

Press Return to continue
```

Copy the ISO images off of the Appliance

Copy the ISO images off of the hardware appliance from /backups/iso. See Copying appliance files How to Guide. There are usually two ISO images for each hardware appliance.

Burn ISO image

Use your preferred CD recording software to create a CD of the ISO image. (Ensure that the ISO image itself is not burnt onto CD but the file structure within the ISO image). Label the recovery disks as Recovery CD 1 and Recovery CD 2 as appropriate.

Repeat Process for Each hardware Appliance

Each Swivel hardware appliance will have a different configuration. Also Swivel HA Primary, HA Standby, Standalone and DR appliances have different builds so recovery CD's should be created for each appliance.

Testing Recovery CD

Ensure Recovery CD can be read.

Restoring from a Recovery CD

Install new Hardware

Install the new hardware appliance. A USB or PS2 keyboard and VGA monitor are required to view the console and select the boot options.

Boot from Recovery CD

Note: This process will overwrite any existing data on the Appliance

Insert Recovery CD 1 and power on the appliance.

The following message will appear:

```
 Warning: this will restore the data from the recovery disks and overwrite existing data on the PINsafe Hardware Appliance
```

Wait for command prompt of ?boot:? Type RESTORE Press enter

```
boot: RESTORE
```

Observe install and follow any instructions. The process would normally take around 15 minutes.

Restore from latest backup

Use the CMI options to restore the PINsafe server from the latest backup. See Restore Appliance

Known Issues

The VMware image does not contain the create Recovery ISO image option. Use VMware backups and snapshots as appropriate.

Troubleshooting

If the ISO image creation terminates early, or the end **OK** button cannot be selected, then the Mondo file creation may appear at the CMI login. Pressing the RETURN key should allow the CMI to be accessible. To remove this message delete the file /tmp/iso.creation