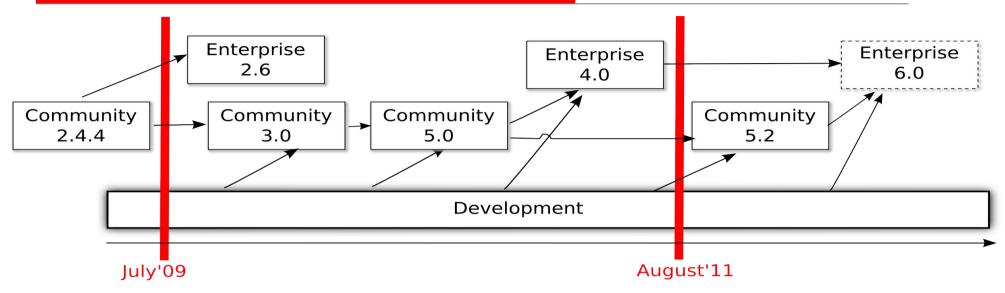


# Bacula Conference Köln, Germany 21 September 2011

Development plans & directions

## **Evolution of Release Cycle**





#### **RELEASES...**

- thoroughly tested
- suitable for production
- bug fixes backported
- long release cycle
- slow to release contributions

#### **COMMUNITY RELEASES...**

- rapid release cycle, new contributions released quickly
- community tested; may not be suitable for production
- bug fixes not backported
- only latest release supported

#### **ENTERPRISE EDITION 4.0.7 (AGPLv3)**

- advanced features
- thoroughly tested, suitable for production
- long term support, all releases
- bug fixes backported
- optimized for larger installations

### Recent Development



## Community

- Working on new features and next version
- Moved git repos from Source Forge to bacula.org server

### Enterprise

- ✓ Two new products (Trial version, LinuxBMR)
- ✓ 100 new binaries
- ✓ Linux Bare Metal Recovery in beta testing
- Delta plugin in alpha testing (deduplication: saves only changed blocks)

### **Future Directions**



- Bacula Enterprise version 4.0.7 August 2011
- Bacula community version 5.2.0rc1 August 2011
- Bacula Enterprise version 6.0.0 December 2011
- Bacula Enterprise version 6.2.0 3Q2012

## Current Enterprise Version (4.0.7)



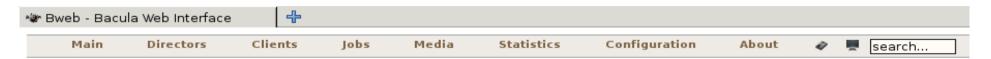
- Bacula Enterprise version 4.0.7 August 2011
  - ✓ Bug fixes for release 4.0.6 (on alldrives plugin)
  - ✓ Trial version based on this version
  - More than 100 new binaries
  - ✓ Improved test procedure for binaries
    - → need for traceability

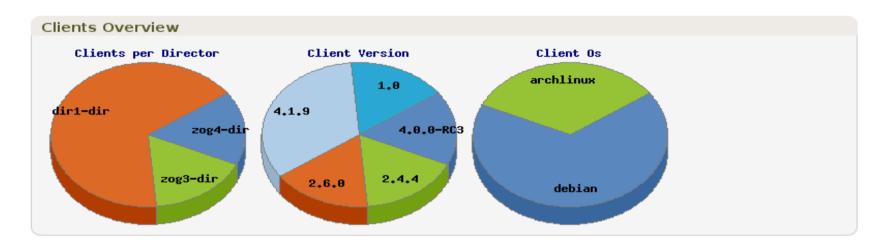
### 4.0.7 - Multi-Director Bweb



- Manage multiple sites
- Group clients across directors
- Manage jobs on several directors
- Enhanced statistics
- Statistics for several sites in one front-end
- Centralized, customized reporting







Clients					
Name▲	Select	Desc	Auto Prune	File Retention	Job Retention
admin-fd		4.0.0-RC3 (20Jun10) x86_64-pc-linux-gnu-bacula-enterprise,debian,5.0.4	1	90 days	180 days
admin2-fd		2.4.4 (28Dec08) x86_64-pc-linux-gnu,debian,lenny/sid	1	90 days	180 days
bstest-fd		1.0 (30Mar09) x86_64-pc-linux-gnu-bacula-systems,debian,lenny/sid	1	90 days	180 days
dir1-fd		4.1.9 (18Sep10) x86_64-unknown-linux-gnu, archlinux,	1	30 days	180 days
dir2-fd		4.1.9 (18Sep10) x86_64-unknown-linux-gnu, archlinux,	1	30 days	180 days
freepbx-fd		2.6.0 (20Aug09) x86_64-pc-linux-gnu,debian,lenny/sid	1	90 days	180 days
⊕ <sub>Last</sub>	jobs	⊕ View groups ⊕ Status ≝ Stats ☐ Edit groups			

### 4.0.7 Source + Binaries



Source 7 Files

Win32 / 64
1 File (each)

\*Win32 / 64 VSS plugin 1 File (each)

RHEL 5 32 / 64
11 Files (each)

• SLES 10 32 / 64 10 Files (each)

• SLES 11 64bit 10 Files

Debian (Lenny, \*Squeeze) 13 Files (each)

Debian (\*Etch, \*Sarge FD only) 2 Files (each)

MacOS (PPC, Intel)
1 File

Ubuntu (Hardy, Lucid) 13 Files (each)

• \*RHEL 6 64bit 10 Files

\*AIX 5.3, 6.1
1 File (each)

Solaris (not ready yet)

• Total ∼ 115 Files

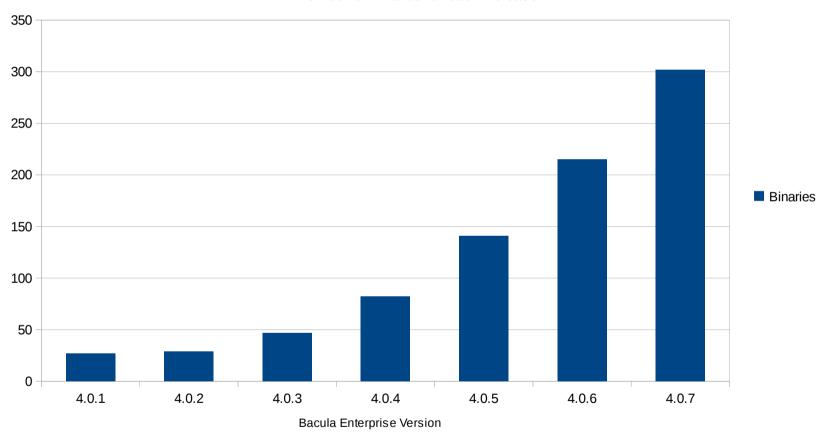
\* = recently added

### 4.0.7 Binaries



#### **Binaries Evolution**

#### Number of Binaries for each Release



# Next Community Version (5.2.0)



- Community version 5.2.0 October 2011
  - Release Candidate 1 released
  - ✓ Source and Windows binaries (no RPMs or DEBs)
  - Many Bat enhancements
  - ✓ Compatibility with MySQL 5.5
  - Automatic correction of Volume size between Volume and catalog
  - ✓ New safer pruning algorithm
  - Community additions:
    - New CRC32 implementation (much faster)
    - New LZO compression

### Next Enterprise Version (6.0.0)



- Bacula Enterprise 6.0.0 December 2011
  - ✓ All features listed for Community 5.2.0
  - Restart failed jobs
  - ✓ Andrew Filesystem (AFS) support used in Universities
  - More certified binaries
  - ✓ Working on HP-UX FD binaries
  - Delta plugin (save only changed blocks)
  - ✓ Incremental backup for MS SQL
  - Continue improving GUIs (Configuration GUI)
  - ✓ Maybe "stop/restart" job
  - Maybe VMWare vSphere plugin
  - ✓ SAN compatible

### Future Enterprise Version 1 of 2



- Bacula Enterprise version 6.2.0 3Q2012
  - New (additional) Volume format that permits easier deduplication (aligned blocks)
  - SD redesign -- one thread per drive will double speed for despooling and migration/copy jobs
  - Snapshot backup by images
  - Deduplication of comm line data for better laptop support
  - More automatic archival features
  - ✓ Stop/Restart Job

### Future Enterprise Version 2 of 2



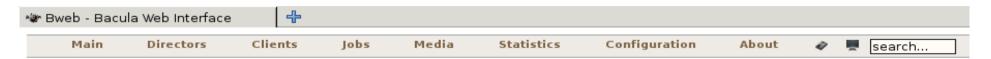
- Bacula Enterprise version 6.2.0 3Q2012
  - Additional Modules (plugins or scripts)
    - SAP (Oracle and MaxDB Swisscom) (EricS/Arno)
    - Oracle (Arno)
    - Zimbra
    - Zarafa
    - Lotus Notes
  - ✓ Configuration GUI
  - ✓ LAN free backup
  - ✓ Improved SD statistics (dynamic rates)
  - ✓ Volume and Device logs

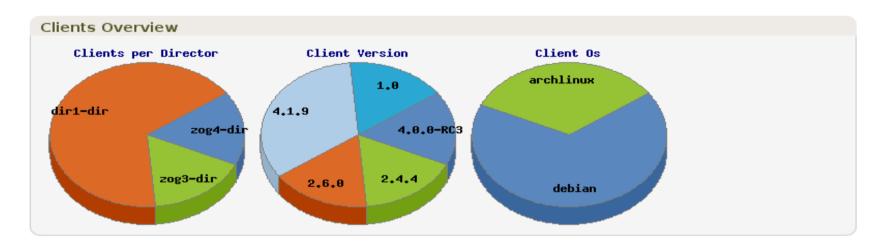


# Bacula Systems

Thank you for your time and attention.

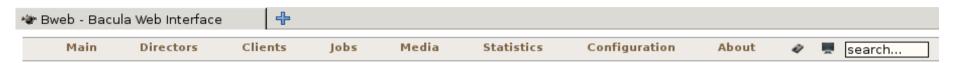


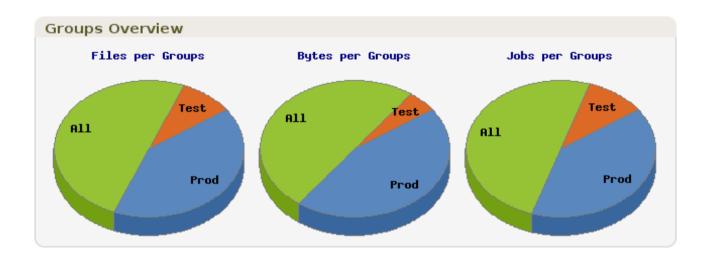




Clients					
Name▲	Select	Desc	Auto Prune	File Retention	Job Retention
admin-fd		4.0.0-RC3 (20Jun10) x86_64-pc-linux-gnu-bacula-enterprise,debian,5.0.4	1	90 days	180 days
admin2-fd		2.4.4 (28Dec08) x86_64-pc-linux-gnu,debian,lenny/sid	1	90 days	180 days
bstest-fd		1.0 (30Mar09) x86_64-pc-linux-gnu-bacula-systems,debian,lenny/sid	1	90 days	180 days
dir1-fd		4.1.9 (18Sep10) x86_64-unknown-linux-gnu, archlinux,	1	30 days	180 days
dir2-fd		4.1.9 (18Sep10) x86_64-unknown-linux-gnu, archlinux,	1	30 days	180 days
freepbx-fd		2.6.0 (20Aug09) x86_64-pc-linux-gnu,debian,lenny/sid	1	90 days	180 days
⊕ <sub>Last</sub>	jobs	⊕ View groups ⊕ Status  Stats  Edit groups			







Group	S					
Name▲	Selection					
All	0					
Prod	0					
Test	0					
♣ <sub>Ad</sub>	dd R ew others	lemove	Edit	Oview members	⊕ <sub>View jobs</sub>	<b></b> ✓View stats

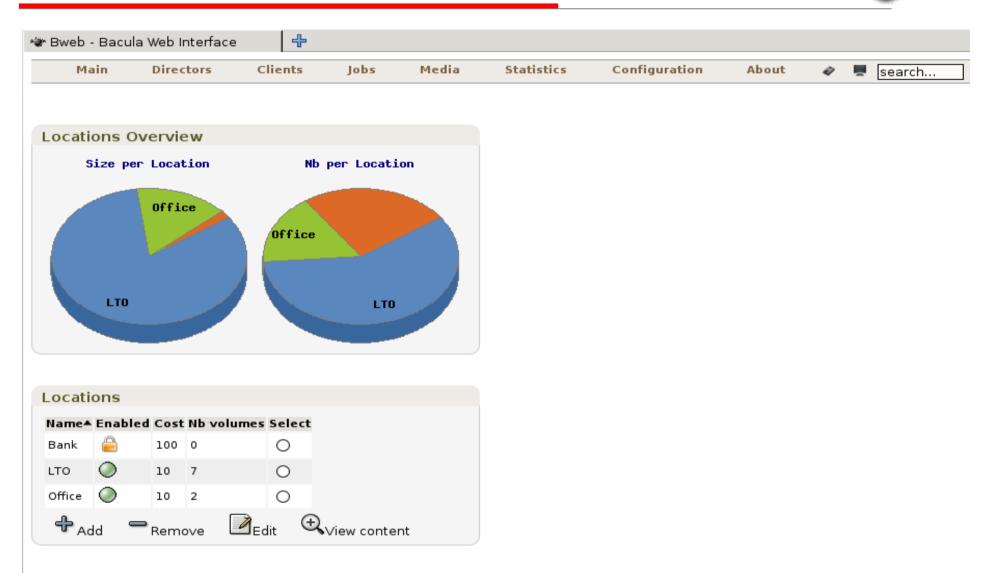




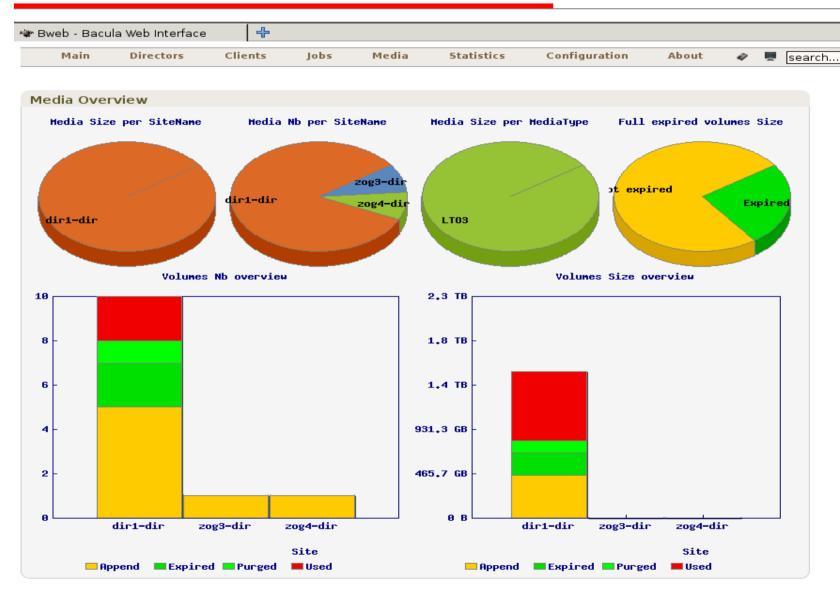
🏶 Bweb - B	acula Web Interface	4							
Main	Directors	Clients	Jobs	Media	Statistics	Configuration	About	Ø.	
Group: '	All'								
Group:	All			A	Members of this g	roup:			
Directors:	zog4-dir zog3-dir dir1-dir				bstest-fd admin-fd freepbx-fd admin2-fd				
				_	adminiz-id				
Clients:	freepbx-fd bstest-fd			4	_				
	admin2-fd admin-fd								
				~1					
	Client filter						<b>Y</b>		
Save									



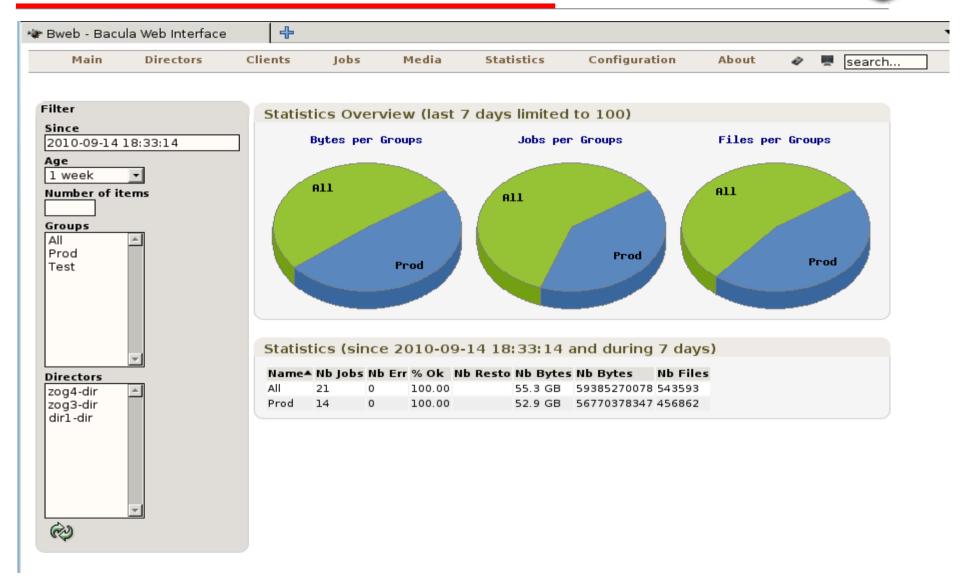




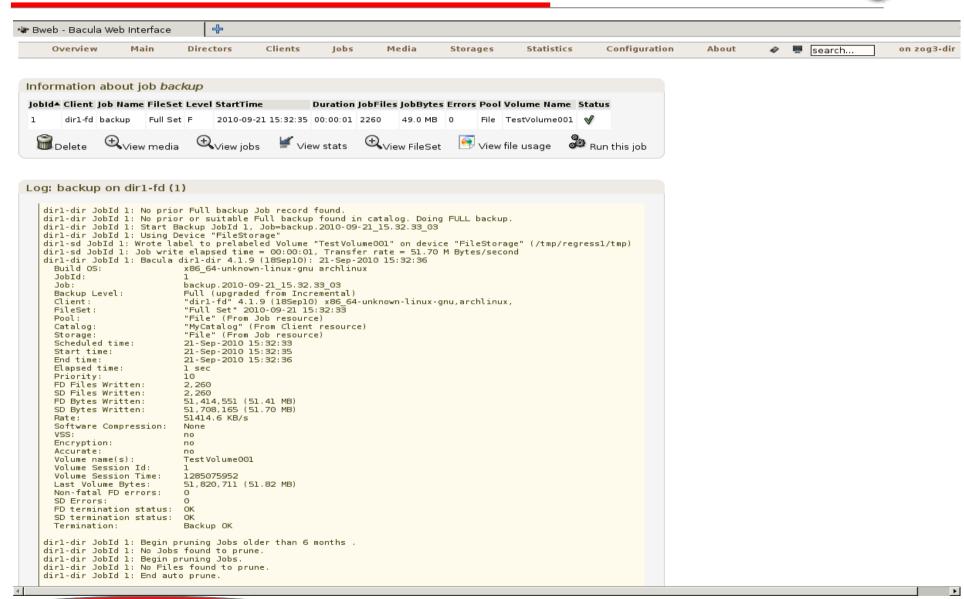






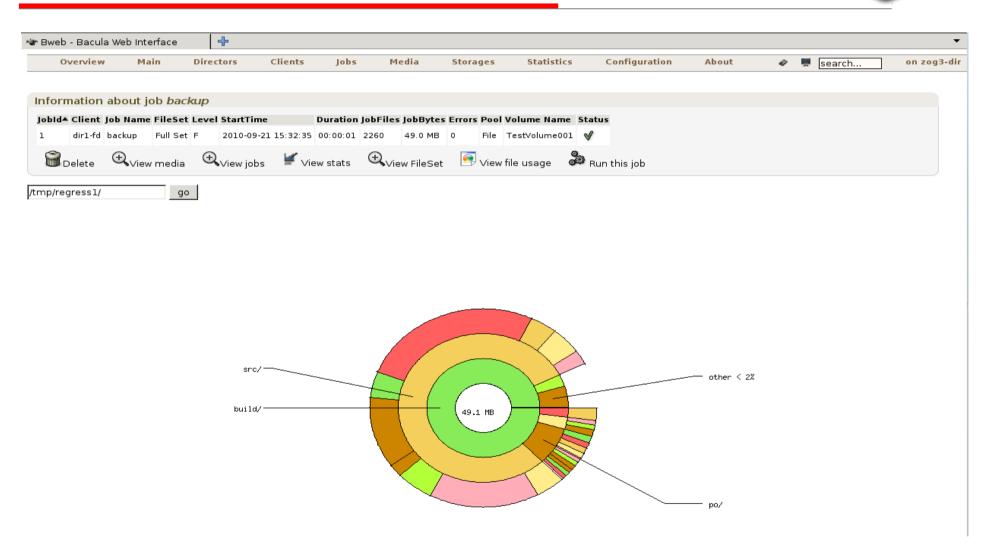






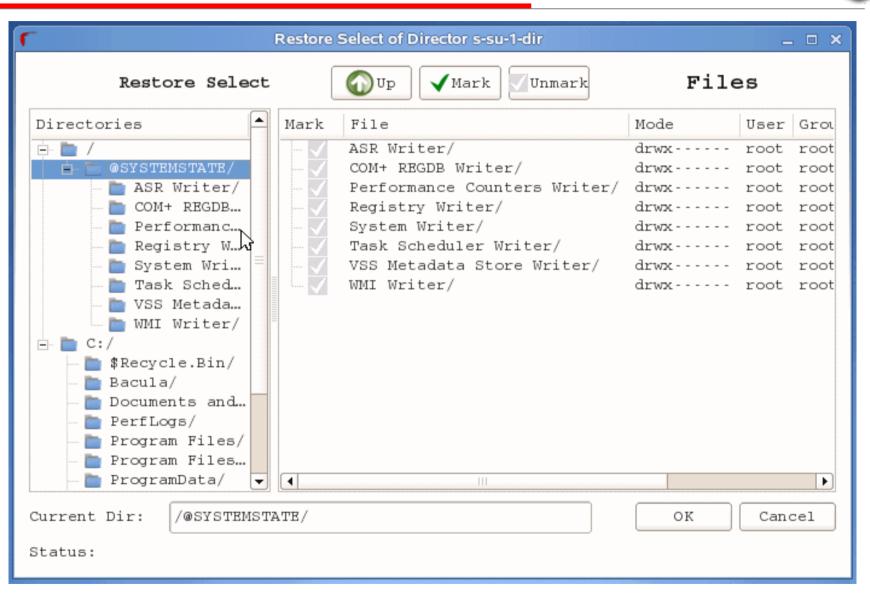






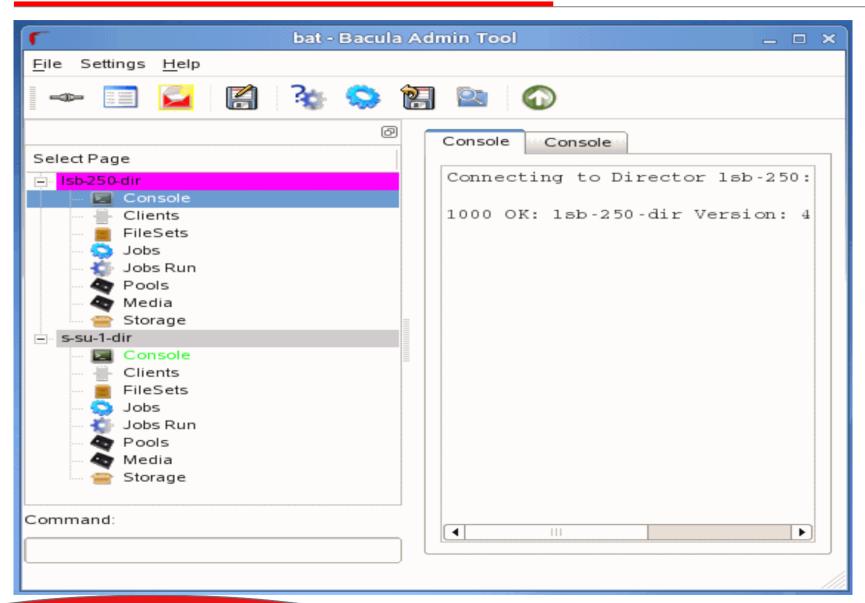






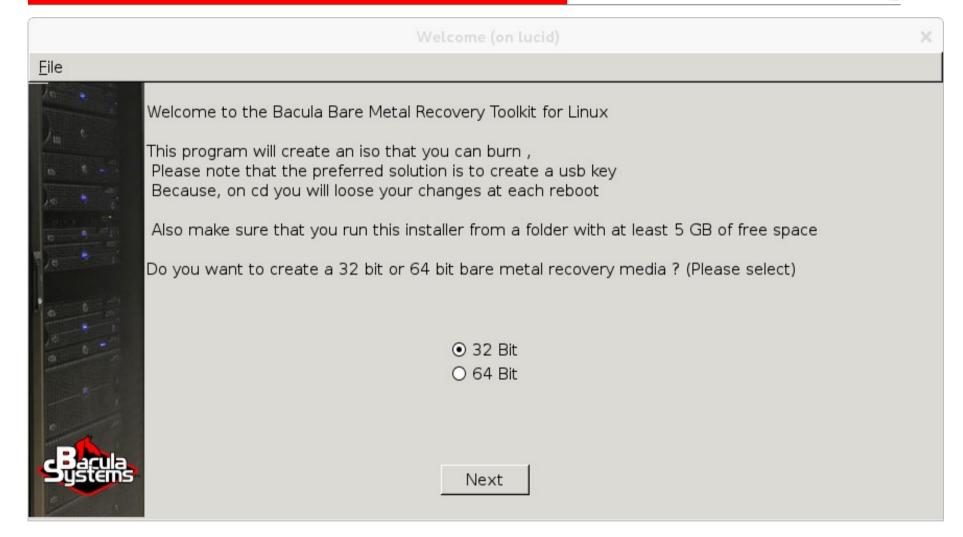






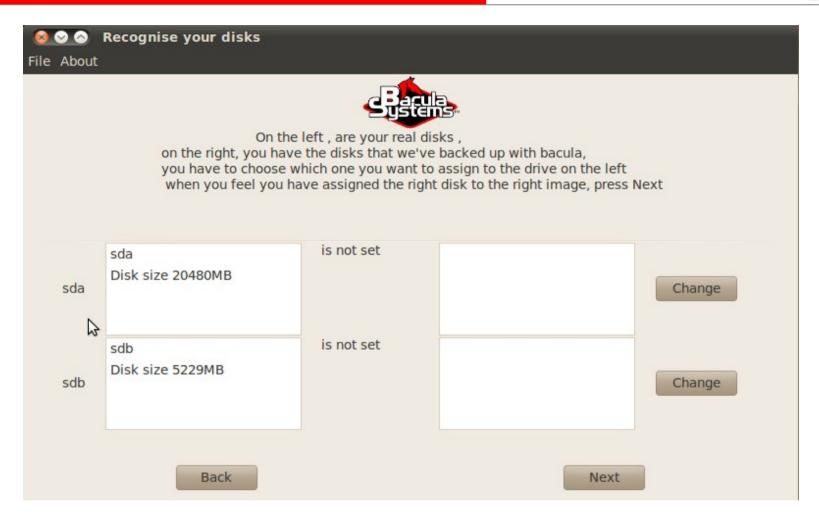
# Linux BMR (Bare Metal Recovery)











# Linux BMR (Bare Metal Recovery)



