



Overview

bareos

Philipp Storz

Introduction

What is Bareos?

Reasons for forking

Feature highlights

Stringent open source strategy

How to participate

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Agenda

- 1 What is bareos?
- 2 Reasons for forking and speed up development
- 3 Some new feature highlights
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What is Bareos?

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- Networkbased multi-platform backup solution
- bacula fork
- License: AGPL
- Massive code cleanup
- Sourcecode hosted at GitHub



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Why Bareos?

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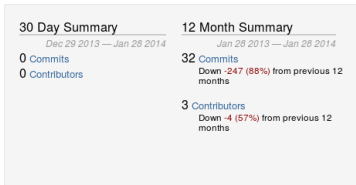


Bacula

[Settings](#) | [Report Duplicate](#)



- bacula.org development virtually stopped
- ohloh.net: -88% commits and -57% contributors in 12 month
- community patches were not introduced
- new things only in closed source "Bacula Enterprise Edition"



Commits per Month





Goals

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- 100% free software
- continuous development
- compatible to bacula as far as possible and senseful
- cleanup the configuration where needed



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SD-SD Replication

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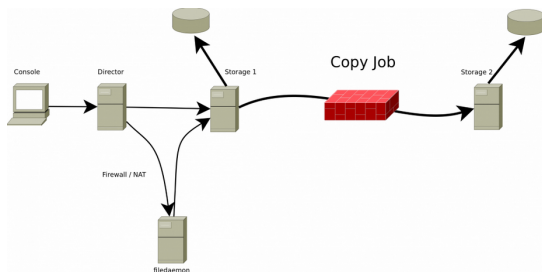
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- Before only copy and migration inside of one SD was possible
- Now we can copy and migrate between two SDs.
- Data can be moved or copied over the network also remotely



Passive Client

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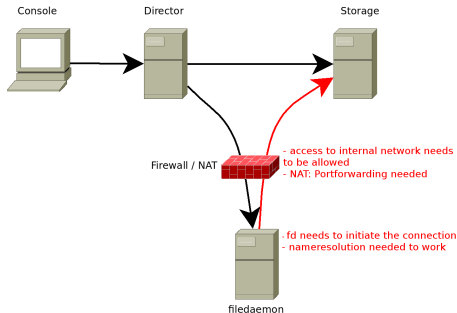
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- Before: init of data channel from FD to SD
- fd needs name resolution
- NAT/Firewall requires setup of back channel



Passive Client2

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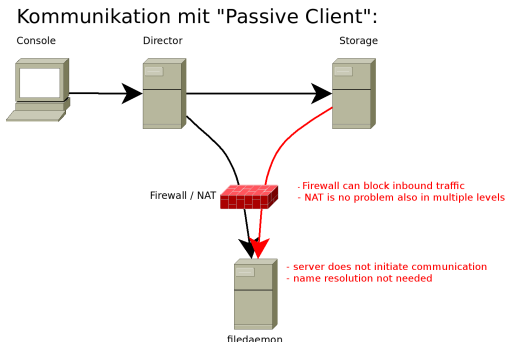
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- passive client option reverses the init of the data channel
- all problems solved



LTO HW Encryption

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Encryption Technology

LTO tape drives, beginning with LTO Ultrium generation 4, use "AES encryption algorithm, with 256-bit keys, in GCM mode." A shorter way to say it is "mode" or "AES256-GCM." Encrypting at the tape drive level can provide performance and capacity advantages for administrators. Encryption at the tape drive level allows for compression before encryption, maximizing tape capacities, and allows high performance during backup. Encrypting using an appliance device introduces latencies that affect backup performance, and requires management of the additional device. Encrypting data at tape speed helps to avoid the need for an appliance — and the concurrent drain on host performance.

- Standard since LTO-4
- AES256-GCM
- virtually no speed impact
- tape cannot be read without key
- complete bareos integration incl. bextract



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Bareos - open source strategy

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- Open Source affine crew
- 100% AGPL
- 100% owner-financed
- <https://github.com/bareos>
 - Sourcecode
 - Regression tests
 - Docs
 - Contrib projects



Sourcecode

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■ Sourcecode on GitHub

The screenshot shows the GitHub repository page for 'bareos / bareos'. At the top, there are navigation links for 'Explore', 'Features', 'Enterprise', and 'Blog', along with 'Sign up' and 'Sign in' buttons. The repository name 'bareos / bareos' is displayed with 4 stars and 4 forks. Below this, it states 'Main repository with the code for the libraries and daemons <http://www.bareos.org>'. Statistics show 338 commits, 3 branches, 9 releases, and 9 contributors. A dropdown menu shows the current branch as 'master'. A list of recent commits is visible, with the most recent one by 'pstorz' titled 'SelfTest fileset added' from 7 days ago. The commit details show a diff for 'autoconf' with the message 'Add FreeBSD -lcam to build flags.' and a timestamp of 19 days ago. Other commits include 'debian' (18 days ago), 'manpages' (3 months ago), 'platforms' (7 days ago), 'po' (4 months ago), 'scripts' (4 months ago), 'src' (7 days ago), 'test' (8 days ago), and '.gitignore' (4 months ago). On the right side, there are links for 'Code', 'Issues', 'Pull Requests', 'Wiki', 'Pulse', 'Graphs', and 'Network'. At the bottom right, there is a 'Download ZIP' button.

■ <https://github.com/bareos/bareos>





Sourcecode

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- Sourcecode, regressions and Docs at GitHub
- `git clone git://github.com/bareos/bareos`
- `git clone git://github.com/bareos/bareos-regress`
- `git clone git://github.com/bareos/bareos-docs`



Sourcecode Documentation

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■ Doxygen Documentation

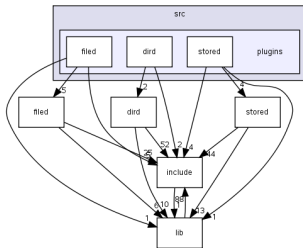
bareos

Main Page | Related Pages | Namespaces | Classes | Files

bareos > src > plugins

plugins Directory Reference

Directory dependency graph for plugins:



Directories

■ <http://regress.bareos.org/doxygen/html/>



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get in touch with Bareos

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- "How to contribute" on bareos.org:
<http://www.bareos.org/en/HOWTO/articles/how-to-contribute-to-bareos.html>
- bareos-users@googlegroups.com
- bareos-devel@googlegroups.com
- bugs.bareos.org
- github.com/bareos



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- Come to our Stand:
Building K, Level 2, Stand 2
- Ask People with Bareos T-Shirts:

