



Bacula Enterprise 2019

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Agenda



- Bacula LATAM & Brasil
- Bacula Systems
- Backups Hoje
- Bacula Community e Enterprise
- Arquitetura Bacula Enterprise
- Características
- Cases
- Modelos de Precificação e Contratação
- Serviços

Bacula LATAM & Brasil



- Sede no Brasil, subsidiária nos Estados Unidos
- Distribuidor exclusivo da Bacula Systems LATAM e Brasil
- Nacionaliza licenças e serviços
- Equipe certificada pelo desenvolvedor

Bacula Systems

BACULA



- De um dos Fundadores da Autodesk e do Bacula Community
- Especialista em software de backup e recuperação
- Sede na Suíça (neutralidade e inviolabilidade)
- Escritórios e Distribuidores Próprios na América, Ásia, Europa, América Latina e Oceania
- Mais de 2 milhões de clientes de backup instalados

Backups Hoje



- Backup é a redundância de qualquer dado que pode ser usada para restaurar sua forma original [Guise]
- Desafio: Dados digitais criados pelo mundo dobram a cada dois anos - 44 Zettabytes até 2020 [IDC]
- Deduplicação Global e Escalabilidade são fatores chaves



Backups Hoje



MULTI-LEVEL DISASTER RECOVERY



Os Três Níveis de DR

- **Nível de Dados.** Proteção dos dados de usuários e aplicações (dumps, cópia de arquivos)
- **Nível de Aplicação.** Continuidade da aplicação (PITR, CDP, plugins para vasta gama de aplicações)
- **Nível de SO.** Reduzir o tempo de recuperação do sistema para o menor possível (export de VM, CDP, snapshot de FS, Bare Metal)

Backups Hoje



- O Software de Backup **não Deve ser um Monólito**, mas Permitir a Mineração de Dados de seus Metadados (entre outros): “sem esses recursos, um backup produto está estagnado e não é capaz de crescer dentro de um ambiente” [Guise]
- Deve ter **Formato Aberto de Catálogo e Gravação do Backup**



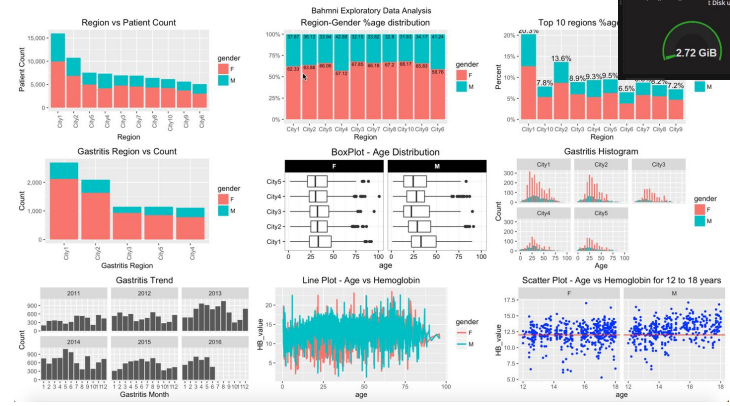
ZABBIX

The screenshot shows the Zabbix web interface. At the top, there's a navigation bar with 'ZABBIX' logo and user 'zabbix'. Below it, a 'PERSONAL DASHBOARD' section displays 'Status of Zabbix' with various system status indicators (High, Average, Warning, Information, Not classified). A 'Host group: Without problems' section shows a table of hosts with their last update times. A terminal window is open in the foreground, showing a shell prompt 'root@srv:~#' and some system-related commands and output.

Nagios®

The screenshot displays a 'NetPhone' dashboard with a grid of widgets. On the left, there are two 'UP' status indicators. The main area contains several line graphs for 'Load' and 'Proc' across different time periods. On the right, there are four circular progress indicators for 'Used Mem' and 'Disk used', with values like '48.12 GiB' and '47.87 GiB'. At the bottom, there are more graphs for 'Disk used', 'Used Mem', and 'Proc', with values like '2.72 GiB' and '20.09 GiB'.

Grafana

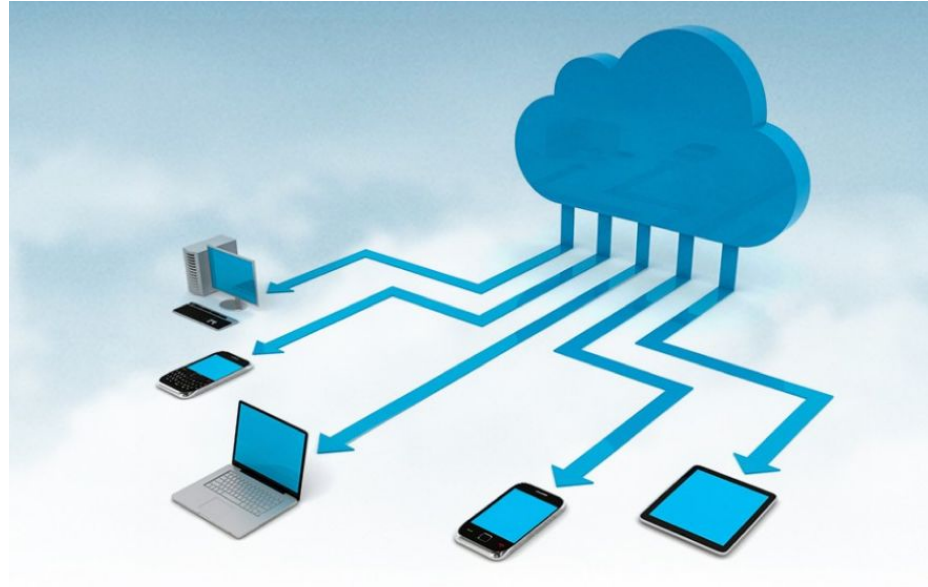


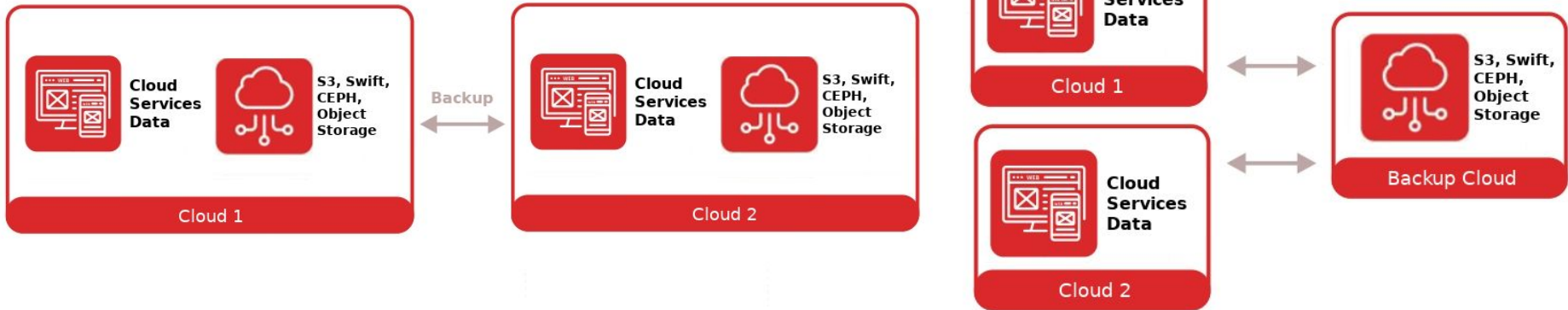
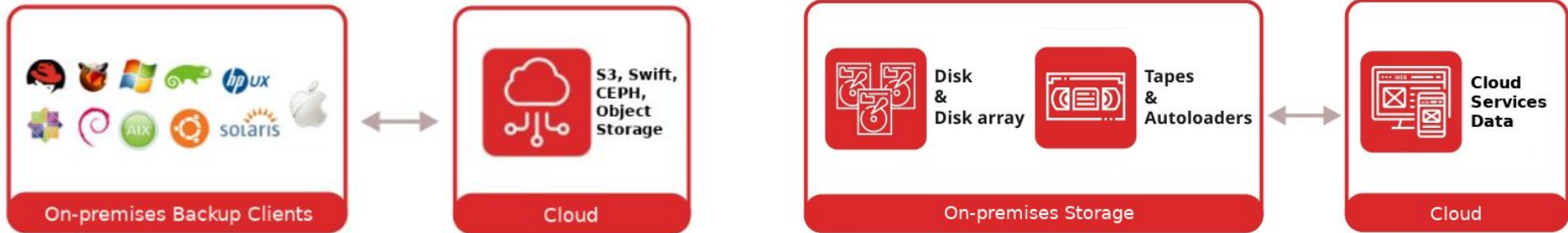
R

Backups Hoje



- A modernização do backup deve fornecer integração com a nuvem [Russel]
- Armazenamento em Object Storage e BaaS devem ser suportados





O Bacula

BACULA



- Software de Backup de Servidores mais Popular do Brasil [Google Trends]
- 4º mais Popular do Mundo
- C/C++, Alta Portabilidade
- Foco em Sustentabilidade, Desempenho e Escalabilidade
- Soluções para Todos os Tamanhos

Bacula Community vs Enterprise



Community

- Licença Livre (GPL).
- Código aberto.
- Pacotes da comunidade ou compilados pelo usuário.
- Necessário desenvolver plugins ou usar script.
- Catálogo e backup de formato aberto.

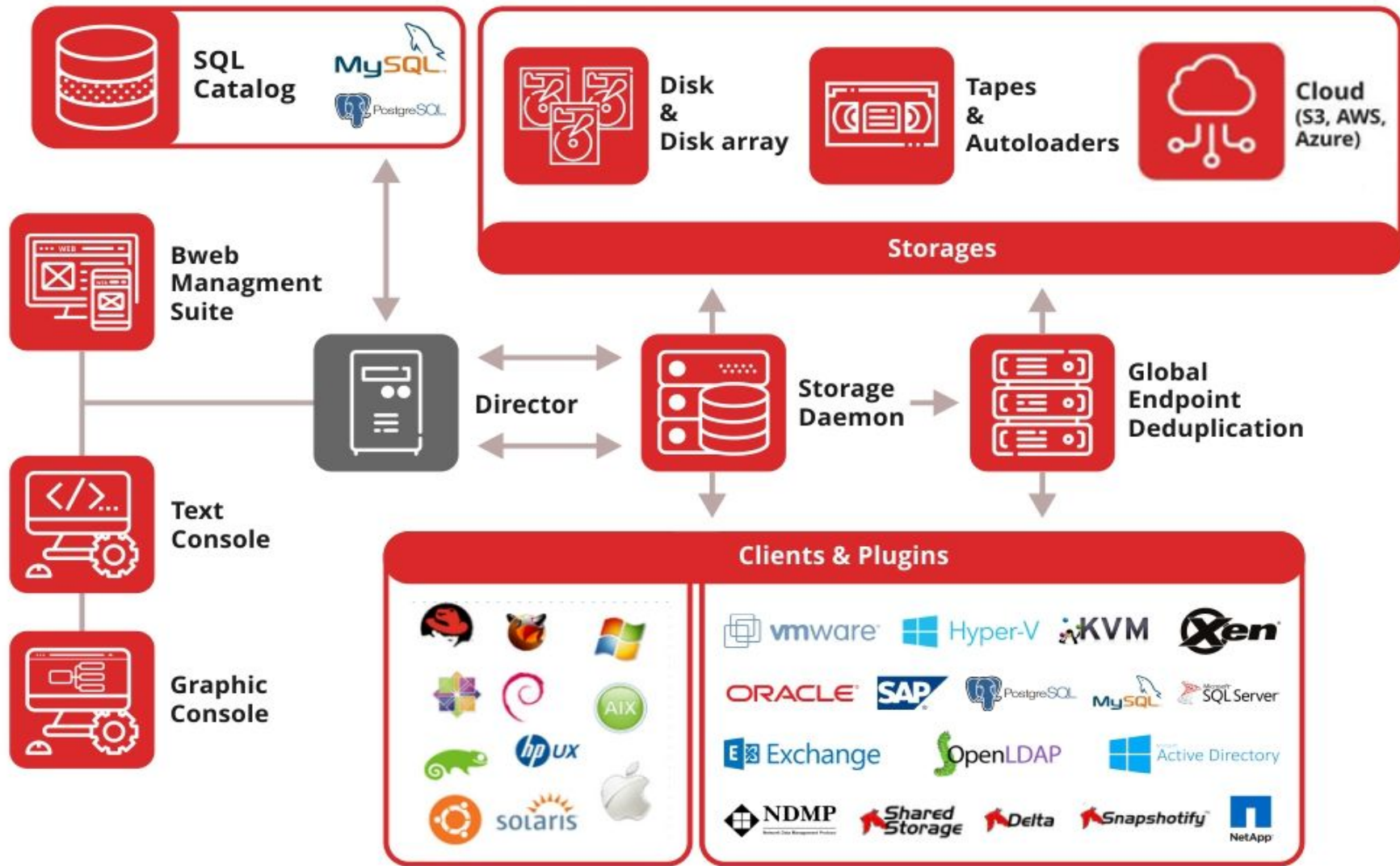
Enterprise

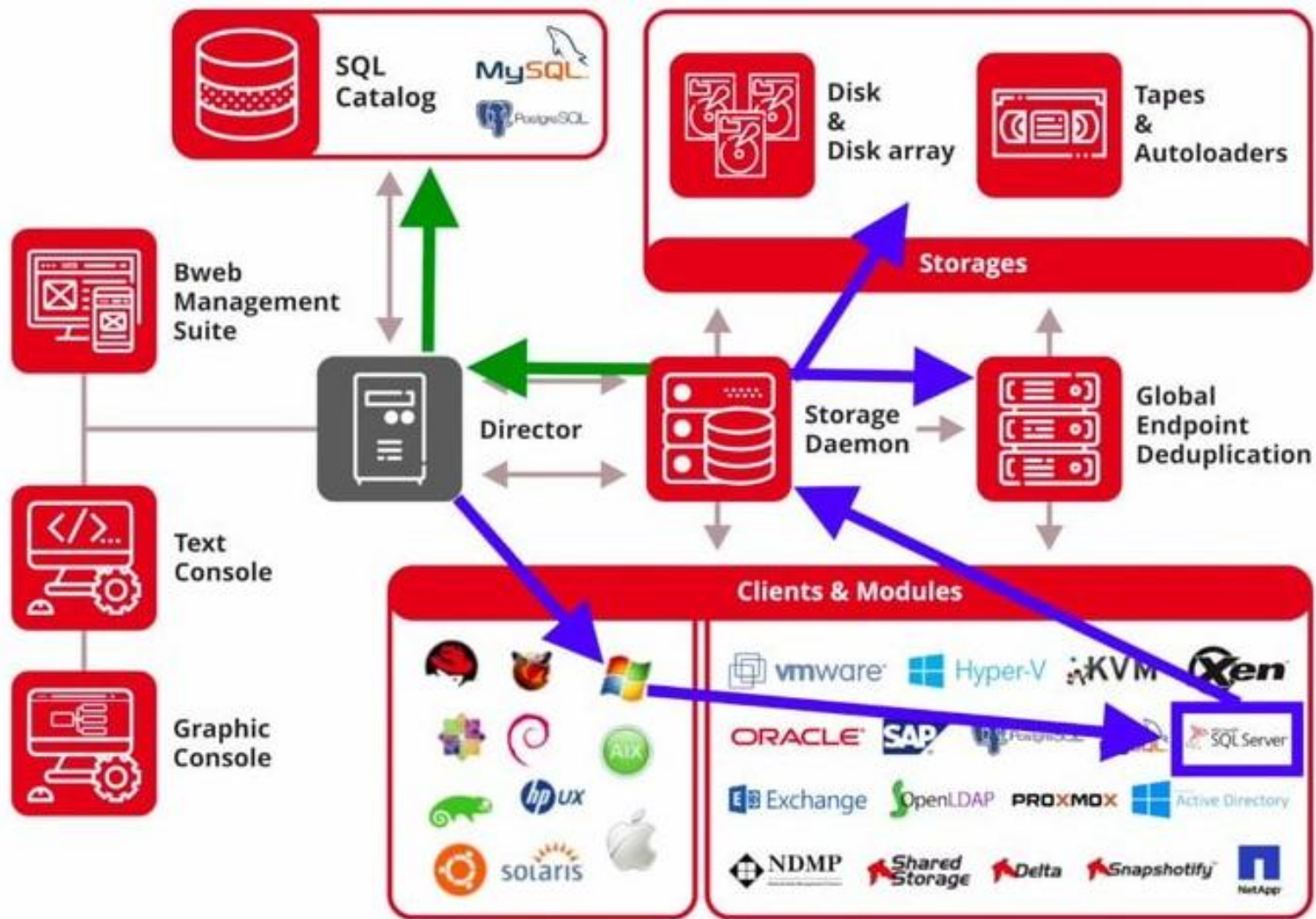
- Investimento em Licenças.
- Código proprietário.
- Pacotes aprovados.
- Suporte do desenvolvedor.
- Interface gráfica única com poucos cliques.
- Mais de 30 plugins de aplicativos específicos.
- Deduplicação global e armazenamento.
- Catálogo e formato abertos.

Bacula Enterprise vs Líderes Gartner



| | Plugins | Cloud Support | BaaS | Preço |
|--------------------------|-----------|---------------|------------|--------------|
| BACULA ENTERPRISE | 30 | Sim | Sim | Baixo |
| COMMAVAULT | 22 | Sim | Sim | Muito Alto |
| NETBACKUP | 14 | Sim | Não | Alto |
| SPECTRUM | 10 | Não | Não | Muito alto |
| EMC | 9 | Não | Não | Muito alto |
| VEEAM | 7 | Não | Sim | Baixo |
| ARCSERVE | 4 | Sim | Sim | Médio |





Director (servidor de backup, master)



- Gestor central dos Jobs e da autenticação entre os serviços.
 - Contém agendamento, configurações, retenções, políticas, etc.
- ★ Escalável (mais de 10.000 clientes)
 - ★ Pode ser Virtualizado
 - ★ Focado em Automação
 - ★ Auto Recuperação de Desastres

Storage Daemon (nó de armazenamento)

BACULA



- ★ Sem tarifação por quantidade de dados
- ★ Infinitos Storages Daemons ligados a um mesmo Director
- ★ Nuvem S3, Swift, CEPH
- ★ Discos internos, externos, RDX.
- ★ Robôs-de-fitas, Cartuchos e VTL



- ★ Deduplicação no armazenamento por software ou hardware
- ★ 100% compatível com fitas (LTO) e NAS
- ★ Diferentes níveis de compactação via software
- ★ Escalabilidade - mais de 600 clientes de backup por Storage Daemon

Storage em Nuvem



CLOUD



File Daemon (cliente de backup)

BACULA

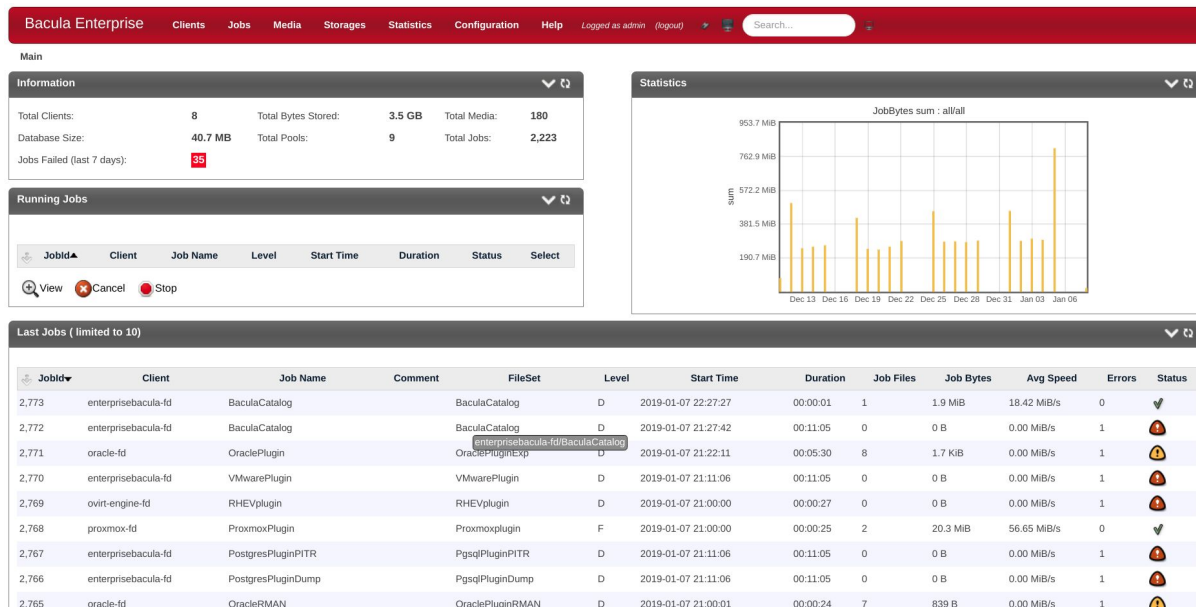


- ★ Autenticação segura (senha ou chaves)
- ★ Criptografia com certificação FIPS

- ★ Deduplicação Global
- ★ Configuração Mínima
- ★ Sistemas Legados
- ★ Mínimo Impacto
- ★ Scripts antes e depois dos Jobs



- ★ Sem plugins Java/Flash
- ★ Auditoria de Operações
- ★ Self-restore
- ★ Grupos de Clientes
- ★ ACLs de Usuário e Perfis
- ★ Gestão de Mídias e Armazenamento
- ★ Módulos de Monitoração, Estatística e Relatórios
- ★ Operação dos Plugins



The screenshot displays the Bacula Enterprise BWeb interface. The top navigation bar includes 'Bacula Enterprise', 'Clients', 'Jobs', 'Media', 'Storages', 'Statistics', 'Configuration', and 'Help'. The main content area is divided into several sections:

- Information:** Shows system-wide statistics: Total Clients: 8, Total Bytes Stored: 3.5 GB, Total Media: 180, Database Size: 40.7 MB, Total Pools: 9, Total Jobs: 2,223, and Jobs Failed (last 7 days): 35.
- Running Jobs:** A table with columns for JobId, Client, Job Name, Level, Start Time, Duration, Status, and Select. It includes action buttons for View, Cancel, and Stop.
- Statistics:** A bar chart titled 'JobBytes sum : allfall' showing data from Dec 13 to Jan 06. The y-axis represents 'sum' in MB, ranging from 190.7 MB to 953.7 MB.
- Last Jobs (limited to 10):** A detailed table of recent jobs with columns for JobId, Client, Job Name, Comment, FileSet, Level, Start Time, Duration, Job Files, Job Bytes, Avg Speed, Errors, and Status.

| JobId | Client | Job Name | Comment | FileSet | Level | Start Time | Duration | Job Files | Job Bytes | Avg Speed | Errors | Status |
|-------|---------------------|--------------------|---------|------------------|-------|---------------------|----------|-----------|-----------|-------------|--------|--------|
| 2,773 | enterprisebacula-fd | BaculaCatalog | | BaculaCatalog | D | 2019-01-07 22:27:27 | 00:00:01 | 1 | 1.9 MiB | 18.42 MiB/s | 0 | ✓ |
| 2,772 | enterprisebacula-fd | BaculaCatalog | | BaculaCatalog | D | 2019-01-07 21:27:42 | 00:11:05 | 0 | 0 B | 0.00 MiB/s | 1 | ⚠ |
| 2,771 | oracle-fd | OraclePlugin | | OraclePluginExp | D | 2019-01-07 21:22:11 | 00:05:30 | 8 | 1.7 KiB | 0.00 MiB/s | 1 | ⚠ |
| 2,770 | enterprisebacula-fd | VMwarePlugin | | VMwarePlugin | D | 2019-01-07 21:11:06 | 00:11:05 | 0 | 0 B | 0.00 MiB/s | 1 | ⚠ |
| 2,769 | ovirt-engine-fd | RHEVplugin | | RHEVplugin | D | 2019-01-07 21:00:00 | 00:00:27 | 0 | 0 B | 0.00 MiB/s | 1 | ⚠ |
| 2,768 | proxmox-fd | ProxmoxPlugin | | Proxmoxplugin | F | 2019-01-07 21:00:00 | 00:00:25 | 2 | 20.3 MiB | 56.65 MiB/s | 0 | ✓ |
| 2,767 | enterprisebacula-fd | PostgresPluginPITR | | PgsqPluginPITR | D | 2019-01-07 21:11:06 | 00:11:05 | 0 | 0 B | 0.00 MiB/s | 1 | ⚠ |
| 2,766 | enterprisebacula-fd | PostgresPluginDump | | PgsqPluginDump | D | 2019-01-07 21:11:06 | 00:11:05 | 0 | 0 B | 0.00 MiB/s | 1 | ⚠ |
| 2,765 | oracle-fd | OracleRMAN | | OraclePluginRMAN | D | 2019-01-07 21:00:01 | 00:00:24 | 7 | 839 B | 0.00 MiB/s | 1 | ⚠ |


Bacula Enterprise Clients Jobs Media Storages Statistics Configuration Help Logged as admin (logout) Search...

Main → Jobs → Defined Jobs

Job Selection → 2 Job Settings Overview

Step 2

Backup Job overview for "MicrosoftADplugin"



Who
Client: enterprisebacula-fd

Where
Storage: DedupDisk
Pool: DedupDaily

When
When: Now
Priority: 10



What
FileSet: MicrosoftADplugin
Level: Incremental

Job Estimation:
252 files
0
13 %

Run Job

- ★ Operação 100% gráfica
- ★ Design Centrado no Usuário
- ★ Operações com Poucos Cliques
- ★ Integração com o AD/LDAP
- ★ Configuração e deploy de clients

Running Job OraclePlugin.2019-01-07_22:29:58.21 on oracle-fd

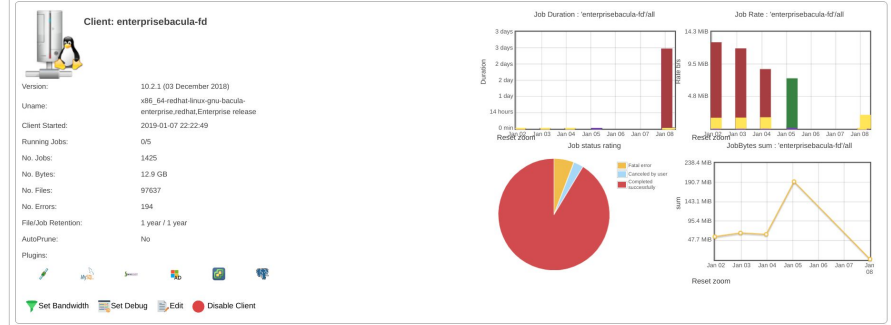
Job Name: OraclePlugin.2019-01-07_22:29:58.21 (2,774)
Processing file: /@ORACLE/cdb1\APEX_040200\user.sql
Speed: 72 B/s
Files Examined: 8
Files Backed up: 8
Bytes done: 
Files done: 
Bytes: 1,748

Job Report: OraclePlugin on oracle-fd (2774)

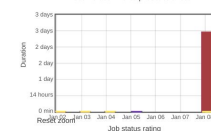
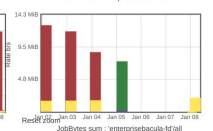
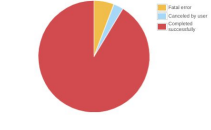
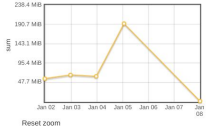
2019-01-07 22:29:50 oracle-fd JobId 2774: DIR and FD clocks differ by -9 seconds, FD automatically compensating.
 2019-01-07 22:38:00 enterprisebacula-dir JobId 2774: Start Backup JobId 2774, Job=OraclePlugin.2019-01-07_22:29:58.21
 2019-01-07 22:38:00 enterprisebacula-dir JobId 2774: Using Device "FileChgr1-Dev2" to write.
 2019-01-07 22:38:00 enterprisebacula-dir JobId 2774: FD compression disabled for this Job because AllowCompress=No in Storage resource.
 2019-01-07 22:38:00 enterprisebacula-sd JobId 2774: Volume "dedupDaily-74" previously written, moving to end of data.
 2019-01-07 22:38:00 enterprisebacula-sd JobId 2774: Ready to append to end of Volume "dedupDaily-74" size=1,922,059

Main - Clients - Client Status enterprisebacula 3 minutes

Client: enterprisebacula-fd



Version: 10.2.1 (03 December 2018)
Uname: x86_64-redhat-linux-gnu-bacula-enterprise-redhat.Enterprise release
Client Started: 2019-01-07 22:22:49
Running Jobs: 0/5
No. Jobs: 1425
No. Bytes: 12.9 GB
No. Files: 97637
No. Errors: 194
File/Job Retention: 1 year / 1 year
AutoPrune: No
Plugins:

Job Duration: 'enterprisebacula-fd' 
Job Rate: 'enterprisebacula-fd' 
Job Status Rating: 
Jobilities sum: 'enterprisebacula-fd' 

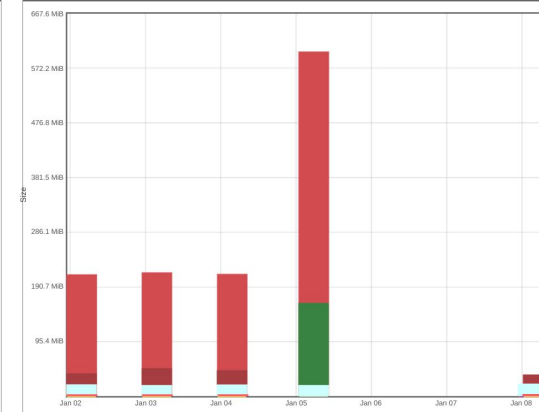
Running Jobs
 No job running on the Client.
Terminated Jobs

Main - Statistics - Statistics

Options

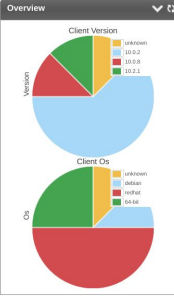
Level: Any **Status:** OK
Age: This week **Size:** Width: 800 Height: 600
Clients: enterprisebacula-fd, hyperv-fd, mssql-fd, oracle-fd, ovirt-engine-fd, proxmox-fd, test, test-fd
Job Name: BackupImages, BackupVideo, BaculaAdminTask, BaculaAudio, BaculaCatalog, BaculaConfigurations, BaculaFileCompressor, HypervPlugin, LDAPPlugin, MicrosoftADPlugin, mssqlBacula, MSSQLPluginCluster, MySQLPlugin, NewJob, OraclePlugin

Groups: databases, hypervisors

Current graph


Main - Clients - Clients

Overview



Client Version: 10.2.1 (03 Dec 2018), 10.1.0, 10.1.8, 10.2.1
Client OS: Unknown, Debian, Oracle, S4-L4

Clients

| Name | Select | Desc | Auto Prune | File Retention | Job Retention |
|---------------------|--------------------------|--|------------|----------------|---------------|
| enterprisebacula-fd | <input type="checkbox"/> | 10.2.1 (03Dec18) x86_64-redhat-linux-gnu-bacula-enterprise-redhat.Enterprise release | 0 | 365 days | 365 days |
| hyperv-fd | <input type="checkbox"/> | 10.0.2 (30May18) Microsoft (build 9200), 64-bit,Cross-compile,Win64 | 0 | 365 days | 365 days |
| mssql-fd | <input type="checkbox"/> | 10.0.8 (22Oct18) Microsoft (build 9200), 64-bit,Cross-compile,Win64 | 0 | 365 days | 365 days |
| oracle-fd | <input type="checkbox"/> | 10.0.2 (30May18) x86_64-redhat-linux-gnu-bacula-enterprise-redhat, | 0 | 365 days | 365 days |
| ovirt-engine-fd | <input type="checkbox"/> | 10.0.2 (30May18) x86_64-redhat-linux-gnu-bacula-enterprise-redhat, | 0 | 365 days | 365 days |
| proxmox-fd | <input type="checkbox"/> | 10.0.2 (30May18) x86_64-pc-linux-gnu-bacula-enterprise,debian.9.0 | 0 | 365 days | 365 days |
| test | <input type="checkbox"/> | 10.0.2 (30May18) x86_64-pc-linux-gnu-bacula-enterprise,debian.9.0 | 0 | 365 days | 365 days |
| test-fd | <input type="checkbox"/> | 10.0.2 (30May18) x86_64-redhat-linux-gnu-bacula-enterprise-redhat, | 0 | 365 days | 365 days |

Actions

- View Who Depends On It
- Set Default Linux Options
- Set Default Windows Options
- Add Filter

Edit Fileset VMwarePlugin [Cancel] [Save] [Copy] [Delete]

Fileset Name: VMwarePlugin

Description:

Enable VSS:

Ignore Fileset Changes:

Enable Snapshot:

Include: [Add Include list] [Compression Dedup Signature] Plugins: index

Exclude:

Current Changes

Help
To get help about Directives, click on the Directive label and the

VMware resource browser

Path: /ha-datacenter/VMS

- ..
- centos7minimum
- teste-restore

[Cancel] [Apply selection]

Storage Overview

Storage: DedupDisk Refresh: 30 seconds Device: Media Type: Device Type: Device Status:

Device: Single Device

Legend: Queued Progress Done Error Cancelled Unknown

Uploads: No upload transfer available Downloads: No download transfer available

Device Details:

- Device Type: Cloud
- Media Type: CloudAWS
- Device Status: Not running (Idle)
- Cache (Free/Total): 272.81 GB / 369.98 GB
- Status: Cloud Status

| Device Name | Status | Loaded | Volume Name | Slot | Running Jobs/Max. Jobs | Speed |
|-------------|--------|--------|-------------|------|------------------------|-------|
| AWS | | | | | | |
| 0/0 | | | | | | |

Autochanger: FileChgr1

Device Details:

- Device Type: Dedup
- Media Type: Dedup
- Device Status: Not running (Idle)
- Space (Free/Total): 272.81 GB / 369.98 GB

| Device Name | Status | Loaded | Volume Name | Slot | Running Jobs/Max. Jobs | Speed |
|----------------|--------|--------|-------------|------|------------------------|-------|
| FileChgr1-Dev1 | - | - | - | 05 | - | - |
| FileChgr1-Dev2 | - | - | - | 05 | - | - |

Autochanger: FileChgr2

Device Details:

- Device Type: File

Main - Statistics - Dedup Usage

Global Endpoint Deduplication storage usage

Storage: DedupDisk Refresh interval: 5 minutes

Deduplication Ratio: 6.63

Size ratio: 14.13

General: Version: 1.0.3 Hash Name: sha512/256 Hash ID: 1 Hole Size: 4.0 MB Ideal Blocksize: 64.0 KIB Max Blocksize: 65.0 KIB

Statistics: Transaction: 2476 Hash Count: 1,205,527 Ref Count: 7,994,509 482.8 GiB Dedupengine Errors: 0 Containers Errors: 0

Containers statistics: Chunk Used: 1,205,527 Chunk Allocated: 1,889,390 Disk Space Used: 34.2 GiB Disk Space Allocated: 71.4 GiB Container Sum Bitarray Capacity: 33.0 MB Read Chunk: 0 Calc Hash: 784 Update Refont: 0 Query Hash: 2138 New Hash: 681

Vacuum: Start Time: 2018-10-29 17:14:48 End Time: 2018-10-29 17:14:55 Orphan Addr: undefined Ref Count: 0 Ref Size: 0 B

34.2 GiB Actual disk space used 482.8 GiB Equivalent standard File or Tape storage space

Global Endpoint Deduplication storage containers

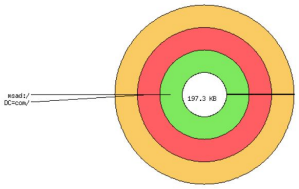
| ID# | Block Used | Block Capacity | Unused Disk Space | Disk Space | Bitarray Capacity | Usage | Usage Map |
|-----|------------|----------------|-------------------|------------|-------------------|-------|----------------|
| 1 | 3 | 4 | 1024 B | 8.0 KIB | 524288 | 75% | [Progress bar] |
| 2 | 6,483 | 9,551 | 6.0 MiB | 18.7 MiB | 524288 | 67% | [Progress bar] |
| 3 | 10,941 | 13,774 | 8.3 MiB | 40.4 MiB | 524288 | 79% | [Progress bar] |
| 4 | 10,628 | 12,865 | 8.7 MiB | 50.3 MiB | 524288 | 82% | [Progress bar] |
| 5 | 5,574 | 7,063 | 7.3 MiB | 34.5 MiB | 524288 | 78% | [Progress bar] |

| JobID | Client | Job Name | Comment | FileSet | Level | Start Time | Duration | Job Files | Job Bytes | Avg Speed | Errors | Status |
|-------|---------------------|-------------------|---------|-------------------|-------|---------------------|----------|-----------|-----------|------------|--------|--------|
| 2,784 | enterprisebacula-ld | MicrosoftADplugin | | MicrosoftADplugin | F | 2019-01-07 23:37:41 | 00:00:02 | 252 | 169.8 KIB | 0.10 MiB/s | 0 | ✓ |

Actions: [Delete] [View Media] [View Jobs] [View Stats] [View FileSet] [View Usage] [View File List] [Run Again] [Restore] [Edit] [Verify Data]

Files usage

/ Size go go back



Wizards do BWeb

BACULA



Bacula Enterprise Workset Clients Jobs FileSets Schedules Pools Consoles Storages Messages

Configure new Backup Policy 1/3

This assistant will guide you to create a new Retention Policy. The optimal Pool and Schedule configuration will be computed from your requirements, and a Job template (JobDefa) will be created. If you have special requirements such as keeping the first backup of the year during 5 years, we recommend to add it later manually.

Recovery Window
The Recovery Window represents the period over your files will be available for restore, and the period over Recovery Points will be taken.

30 Days

Recovery Points
The number of recovery points (Full, Differential and Incremental backup Job) that Bacula will Keep. For example, having 30 Recovery Points over a Recovery Window of 30 days means that Bacula will run a backup everyday. Having 60 Recovery Points over 30 days means that Bacula will run a backup twice a day.

30

File Copies
How many copies of each file should be kept on your Storage area? Depending on your requirements, you may want to avoid keeping all eggs in one basket.

4

Refresh Estimation Cancel Next

Resource Usage Estimation

Estimation Data

Backup Size: 10 GB
Change Rate: 10 %

Estimation Results

Full Backup Size: 40.0 GB
Incremental Backup Size: 26.0 GB
Average Total Size: 66.0 GB
Peak Size: 66.0 GB

Size / Number of Copies

| Size | 1 | 2 | 3 | 4 |
|---------|---|---|---|---|
| 74.5 GB | | | | |
| 59.9 GB | | | | |
| 37.3 GB | | | | |
| 15.4 GB | | | | |

Bacula Enterprise Workset Clients Jobs FileSets Schedules Pools Consoles

Configure new Backup Job resource 5/5

When?
Finally, you need to specify when the Backup Job should run. If the Schedule is not yet defined in the configuration, just add it now.

Schedule Name:



Cancel Prev Next

Jobs FileSets Schedules Pools Consoles

2/3

...ts, you need now to specify your Backup requirements such as how much time the Job can run.

Can run after: 03 : 00 AM

Should be canceled after: 2 Hours

Cancel Prev Next

<http://www.bacula.com.br/demo-online-bweb-bacula-enterprise/>

Portal de Autosserviço BCloud



- Usuários regulares podem configurar o backup e a restauração de seus dados
- Gerenciamento de faturamento e cotas
- Permite às empresas fornecer backup como serviço (**Backup-as-a-Service - BaaS**)

The screenshot displays the Bacula web interface. At the top, there are two icons: "My data" (a database cylinder with a gear) and "Download center" (a database cylinder with a blue arrow). Below these is the "Backup job list" section, which includes filters for Level (Any), Status (Any), and a date range (Since: To:). The "Items number" is set to 10. A table lists backup jobs for the client "Wanderlei".

| Job name | Level | Start time | Duration | Job files | Job bytes | Avg speed | Errors | Status |
|-----------|-------|-------------------|----------|-----------|-----------|------------|--------|--------|
| Wanderlei | F | 07/05/18 16:31:56 | 00:01:09 | 66 | 51.0 MiB | 0.74 MiB/s | 0 | |

Below the table, there are sections for "Backup" details (Last Backup, Last Backup Time, Size of the Last Backup, Total Size) and "Next Backup" details (Name, Scheduled Time). The "Running jobs" section shows a table with columns for Name, Start Time, Job Bytes, Job Files, and Action.

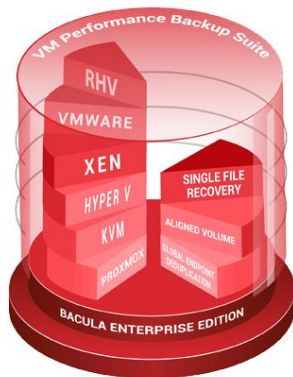
| Name | Start Time | Job Bytes | Job Files | Action |
|-----------|-------------------|-----------|-----------|---|
| Wanderlei | 07/05/18 16:31:56 | 0 | 0 | View Cancel |

On the right side, there are buttons for "Select files to restore", "Restore History", "Delete Client", and "Delete this Client". A note states "Client deletion is permanent".

Plugins



- VMware
- Hyper-v
- KVM
- Xen
- Proxmox
- RHEL/oVirt
- OracleVM



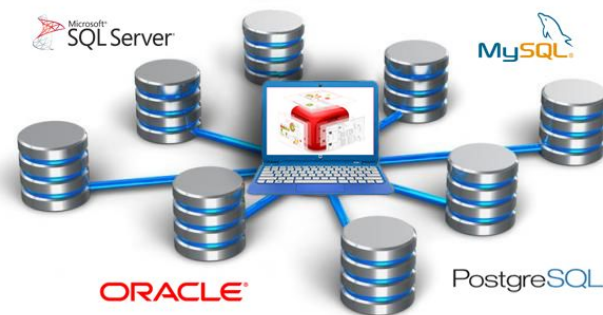
- ★ Backup sem Cliente
- ★ Auto-Descoberta de Novas Máquinas
- ★ Backup Diferencial no Nível de Bloco
- ★ Restauração Automática de VMs
- ★ Restauração granular de um arquivo

Plugins



- MYSQL
- PostgreSQL
- Oracle
- SAP
- SAP Hana
- MS SQL
- Active Directory
- LDAP
- MongoDB
- Cassandra
- Hadoop
- DB2*

- ★ **Auto-Descoberta de Novos Bancos**
- ★ **Backups Diferenciais e Incrementais**
- ★ **PITR / Archive Log**
- ★ **Restauração Granular e Automática**
- ★ **Backup de Clusters**



Plugins

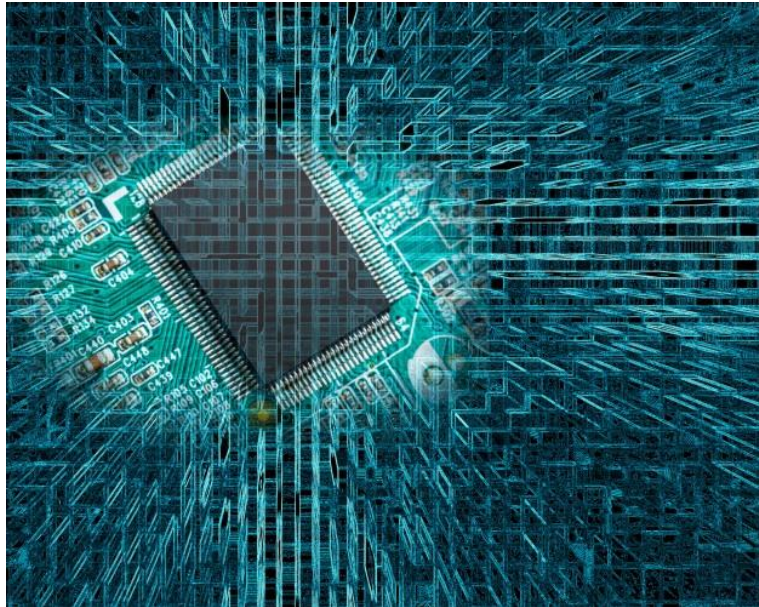


- CDP (Continuous Data Protection)
 - 3rd Party Software Migration
 - Bare Metal Linux e Windows
- (restauração e migração de máquinas completas físicas/virtuais/nuvem)*

- Zimbra
- MS Exchange
- Sharepoint
- VSS
- bpipe
- Delta
- NDMP
- Storage SAN
- Incremental Netapp



Outras Funcionalidades



- Backup Multi-Volume
- Multi-Backups para um Mesmo Volume
- Transversamento de Firewalls e NAT - Backups Iniciados Pelos Clientes
- Backups Incrementais e Diferenciais
- Compressão Apenas do Tráfego de Rede
- Job de Cópia e Migração
- Limite de Banda
- Sem Vazamento de Memória
- Reciclagem Automática de Volumes
- Compatível com Estratégia GFS e outras

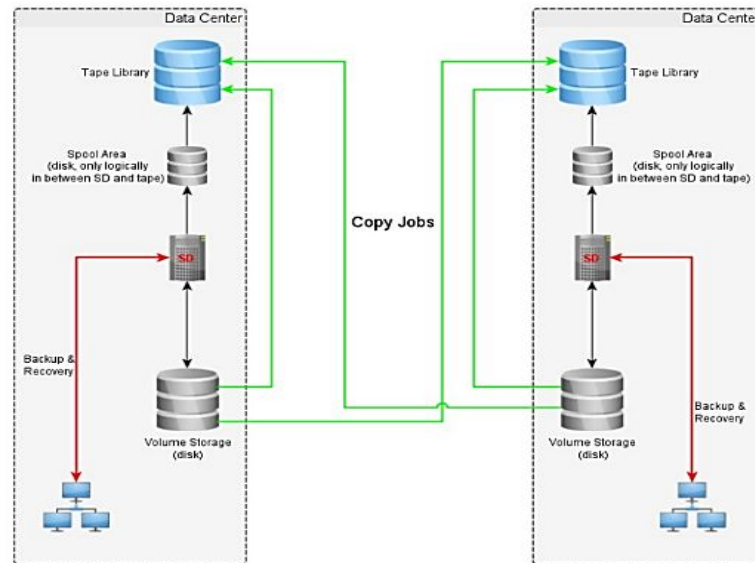
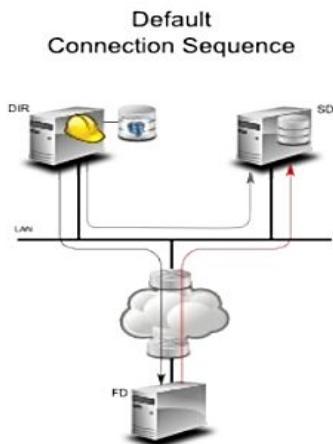
Funcionalidades Diferenciais



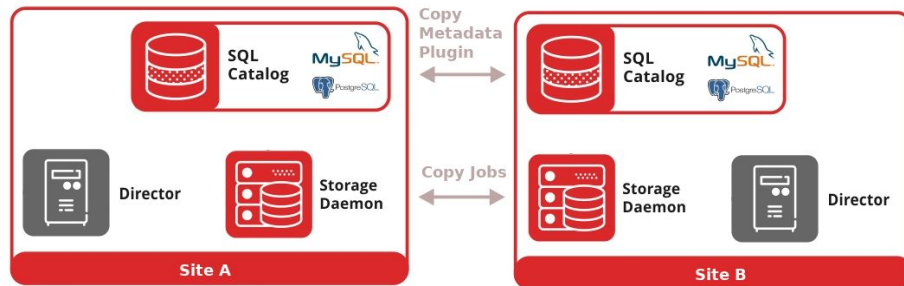
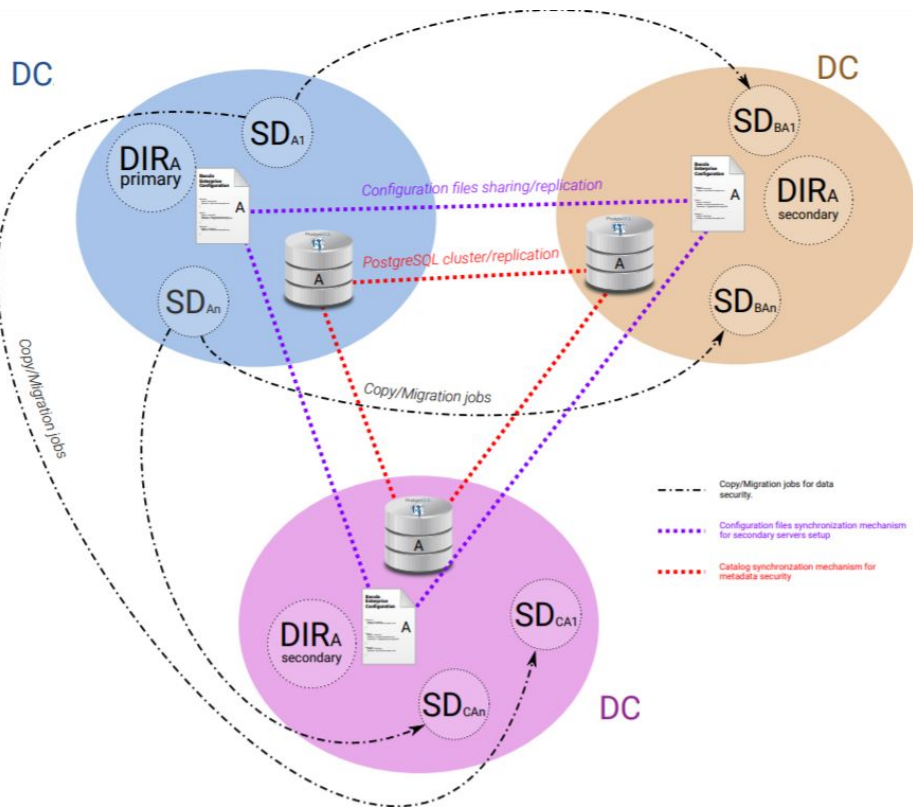
- Mais de 30 Plugins de Aplicações Específicas
- Suporte ao Backup de Snapshots de Sistemas de Arquivos (LVM, ZFS etc.)
- 30 Anos de Retrocompatibilidade de Backups
- Remoção de Dados Específicos em Atendimento à GDPR
- Catálogo de Backup SQL em Formato Aberto
- Volume em Formato Aberto (pode ser lido pelo tar e dump do Unix)

Replicação de Centro de Dados

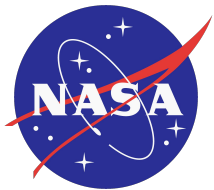
- Cluster de Catálogo, Réplica das Configurações Job de Cópia com Réplica de Metadados ou DRBD



Replicação de Centro de Dados









DATACOM



CÂMARA MUNICIPAL DE CAMPINAS



MINISTÉRIO PÚBLICO DO ESTADO DA PARAÍBA



Até 77% de economia

- Especialistas em solução de backup
- Modelo simplificado de tarifação
- Estrutura enxuta



(1)

Quantidade Clientes de Backup (VMs, Servidores, Estações etc.)

- Faixas flexíveis

(0-25; 26-50; 51-200; 201-500;
501-2000; 2001-5000)

(2)

Quantidade de Plugins

- Os plugins tem uso ilimitado.
- Preço fixo.

Níveis de Licença



| | | SMB | Standard | Bronze | Silver | Gold | Platinum |
|-----------------------------|---|--------------------|------------------|--------------------|--------|-------|----------|
| Itens Básicos da Assinatura | Número Máximo de clientes de backup | 25 | 50 | 200 | 500 | 2000 | 5000 |
| | Quantidade de Contatos Autorizados | 1 | 1 | 2 | 3 | 5 | 5 |
| | Número de Plataformas | TODAS | TODAS | TODAS | TODAS | TODAS | TODAS |
| | Suporte Web | ● ⁽¹⁾ | ● | ● | ● | ● | ● |
| | Suporte Telefônico | ○ ⁽²⁾ | ○ | ○ | ● | ● | ● |
| | Binários Certificados da Bacula Systems | ● | ● | ● | ● | ● | ● |
| Compromisso de Resposta | Severidade 1 | 2 D ⁽³⁾ | 1 D | 6 H ⁽⁴⁾ | 4 H | 1 H | 1 H |
| | Severidade 2 | 3 D | 2 D | 1 D | 6 H | 2 H | 2 H |
| | Severidade 3 | 4 D | 3 D | 3 D | 1 D | 1 D | 1 D |
| | Severidade 4 | 5 D | 4 D | 4 D | 2 D | 2 D | 2 D |
| Serviços Adicionais | Acesso a Plugins | ○ | ● ⁽⁵⁾ | ● | ● | ● | ● |
| | Acesso à Desduplicação de Volumes | ○ | ○ | ○ | ● | ● | ● |
| | Acesso a Serviços Técnicos | ○ | ● | ● | ● | ● | ● |
| | Acesso a Desenvolvedores Sênior | ○ | ○ | ○ | ○ | ● | ● |
| | Acesso ao Desenvolvimento Financiado | ○ | ○ | ○ | ● | ● | ● |
| | Vagas em Treinamentos Inclusas por Ano ⁽⁶⁾ | — | — | — | — | — | 1 |
| | Suporte ao Catálogo PostgreSQL | ○ | ○ | ○ | ● | ● | ● |

(1)

Subscrição

- Paga-se o mesmo valor de contratação e renovação das licenças e suporte todos os anos

(2)

Licença Perpétua

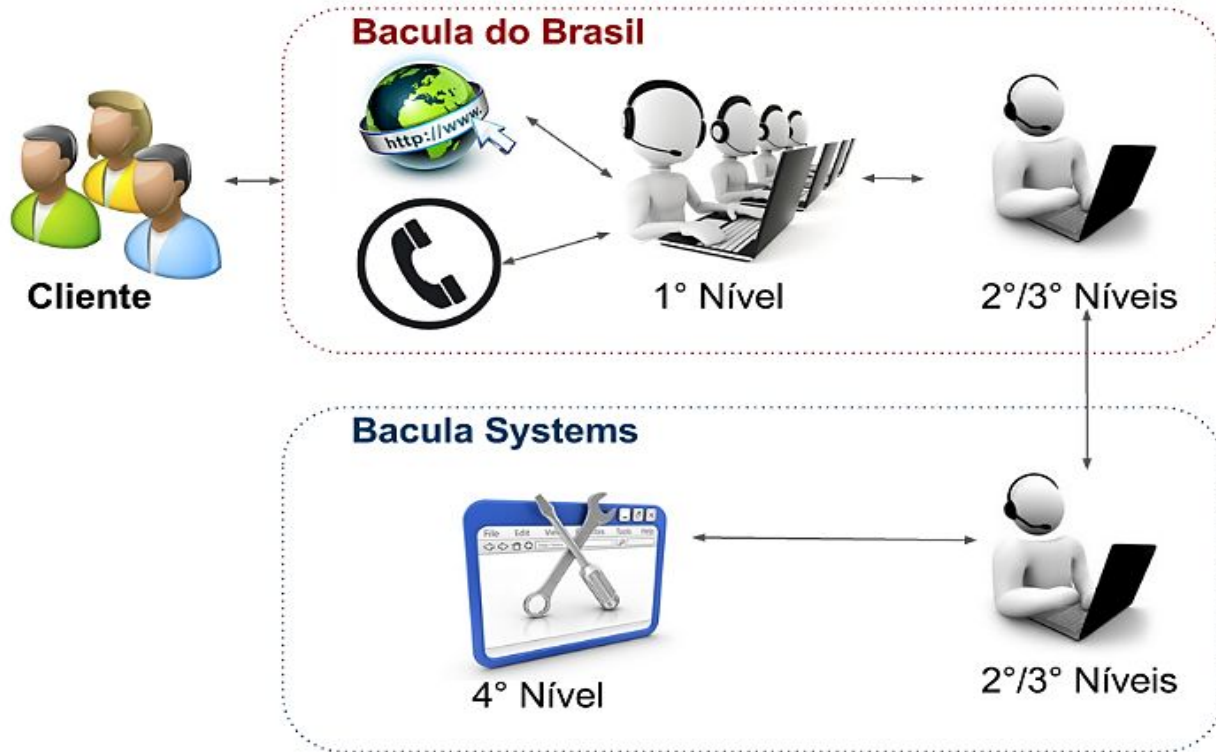
- Investimento inicial maior
- Renovações anuais custam apenas 20% do preço pago no primeiro ano
- Uso permanente de versões baixadas sem renovação

Direitos da Licença



- Atualizações de todos os componentes do Bacula Enterprise.
- Correções de bugs.
- Suporte 24x5 (24x7) da Bacula Systems.
- Repositório exclusivo para diversos sistemas operacionais.
- Altos níveis de contratação:
 - participação no roadmap e feature requests;
 - Bolsas para treinamento na sede da Bacula Systems, se desejado.

Serviços Adicionais



Serviços Adicionais



- Implantação da **Bacula do Brasil** com repasse tecnológico (hands-on)
- Treinamento in-company certificado **Bacula do Brasil**
- Suporte da **Bacula do Brasil** com ANS personalizáveis
- Outsourcing da administração do backup (parceria)

Referências



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