



Stratis Storage Lab

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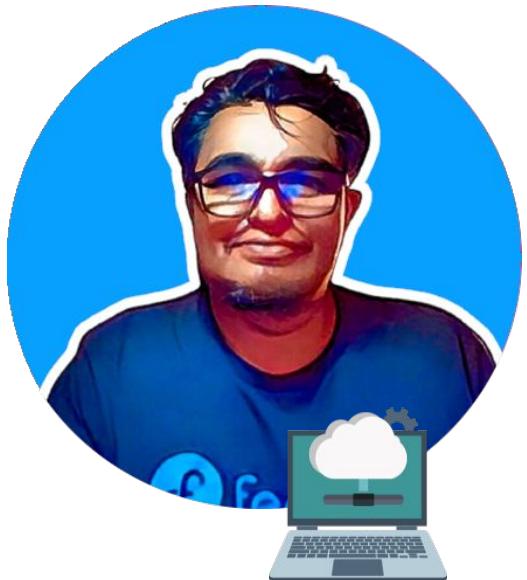
@dark_axl

github.com/AlexCallejas

rutil.io/social

Laboratorio de Pruebas

Mi configuración



Lenovo ThinkPad P1 Gen 2

Intel(R) Core(TM) i7-9850H CPU @ 2.60GHz

- **Storage**
`/var/lib/libvirt/images` → LVM 476G
- **Fedora release 37 (Thirty Seven)**
`6.0.10-300.fc37.x86_64`
- **Creación de Lab con KVM**
Build a lab in five minutes with three simple commands



¿Porqué un laboratorio?



It doesn't matter how beautiful your theory is, it doesn't matter how smart you are. If it doesn't agree with experiment, it's wrong. In that simple statement is the key to science.

Richard Feynman

Stratis Storage



Stratis is a tool to easily configure pools and filesystems with enhanced storage functionality that works within the existing Linux storage management stack.

stratis-storage.github.io

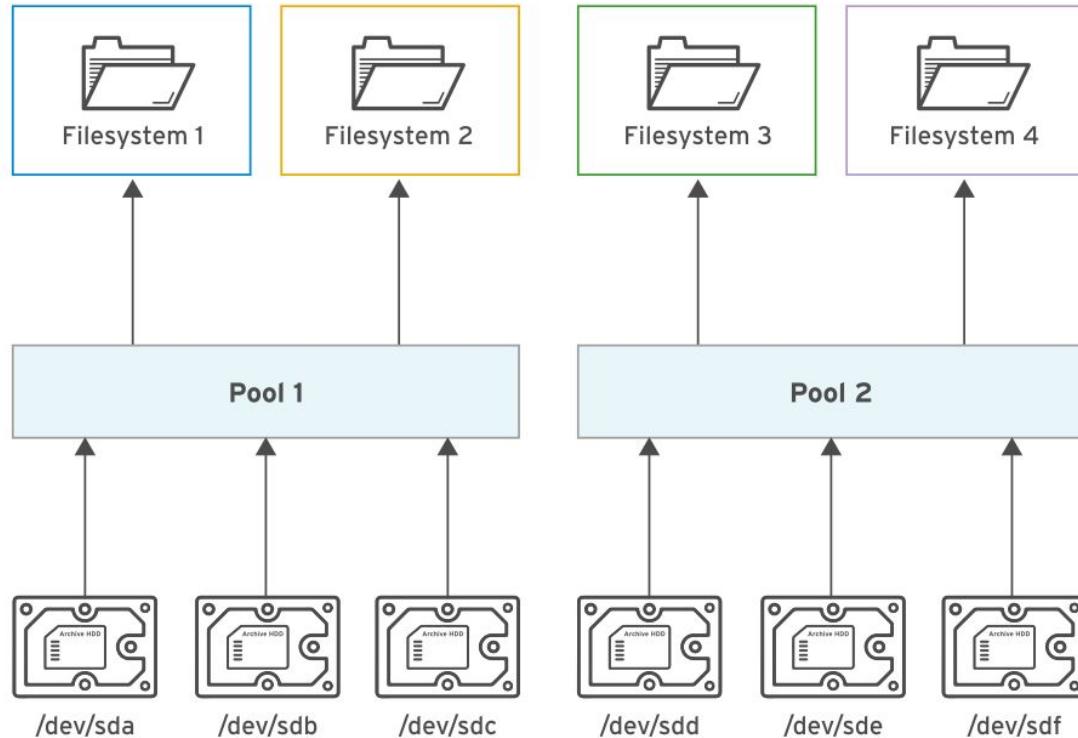
- command-line experience
- rich API

Stratis uses:

- **device-mapper** - A framework for logical to physical mapping of data blocks
- **LUKS** - An on disk format for encryption that can securely manage multiple passwords
- **XFS** - A scalable, journaling, and performant filesystem
- **Clevis** - A framework for automated decryption
- May also incorporate additional technologies in the future.

Stratis Storage

STRATIS



Stratis Storage



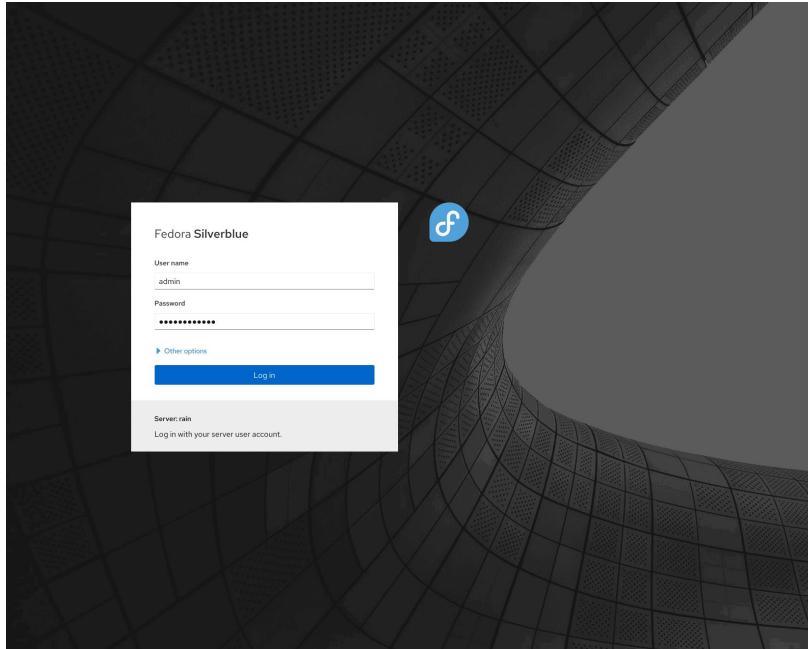
- Stratis
 - `# yum install stratis-cli stratisd`
 - `# systemctl enable --now stratisd`
- Pool
 - `# stratis pool create pool /dev/vdb`
 - `# stratis pool list`
 - `# stratis pool add-data pool /dev/vdc`
- Filesystem
 - `# stratis filesystem create pool filesystem`
 - `# stratis filesystem list`
 - `# stratis filesystem snapshot pool filesystem snapshot`

Stratis Storage



Web Console

cockpit-project.org



```
# dnf install cockpit
# systemctl enable --now cockpit.socket
# firewall-cmd --add-service=cockpit --permanent
```



Web Console

```
# dnf -y install cockpit cockpit-composer \
> cockpit-machines cockpit-pcp cockpit-podman \
> cockpit-session-recording cockpit-storaged
```

```
# systemctl restart pmlogger
```

```
# systemctl enable --now cockpit.socket
```

```
# firewall-cmd --add-service=cockpit --permanent
```

Stratis Storage



Web Console

cockpit-project.org

The screenshot shows the Cockpit web interface at <https://127.0.0.2:9091/system>. The left sidebar is titled "System" and includes links for Overview, Logs, Storage, Networking, Virtual Machines, Accounts, Services, Tools, Applications, Development, Diagnostic Reports, Kernel Dump, SELinux, Software Updates (with a yellow warning icon), and Terminal. The main content area displays system information and usage statistics. The "Health" section shows a warning about security updates available. The "Usage" section shows CPU and Memory usage. The "System information" section provides details like Model (QEMU Standard PC), Machine ID, and Uptime. The "Configuration" section allows editing of Hostname, System time, Domain, Performance profile, Secure shell keys, and Store metrics.

Category	Value
System	Model: QEMU Standard PC (i440FX + PIIX, I996)
System	Machine ID: b98e15710c9a4bc6b4c10b7c360f0998
System	Uptime: 6 minutes
Configuration	Hostname: m1.cockpit.lan edit
Configuration	System time: Mar 30, 2021 4:51PM edit
Configuration	Domain: Join domain
Configuration	Performance profile: none
Configuration	Secure shell keys: Show fingerprints
Configuration	Store metrics: <input checked="" type="checkbox"/>

Referencias

Links y Documentación

- Stratis how-to/walk-through
- Stratis Storage → GitHub
- Stratis Storage → Twitter

- cockpit-project.org



Fedora México

- <https://www.meetup.com/es-ES/Fedora-Mexico/>
- <https://t.me/fedoramexico>
- <https://comunidades.lat/fedoramx/>
- <https://fedoramx.fedorapeople.org/>



Gracias!

¡Únete a la conversación!

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