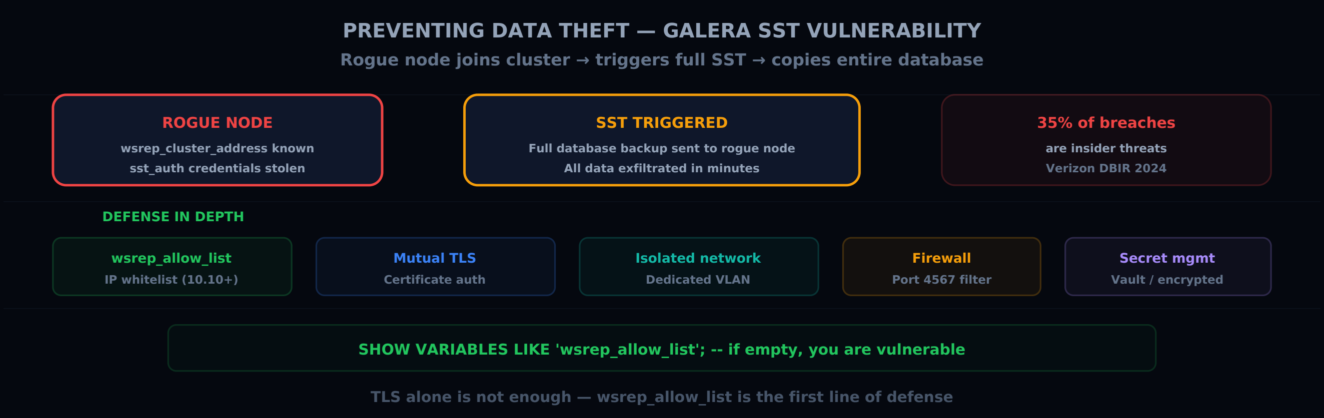
[illegible]Galera [illegible]

Sylvain ARBAUDIE · 2025[illegible]3[illegible]12[illegible]

GALERA MARIADB SECURITY SST



[illegible]

[illegible] MariaDB [illegible] wsrep [illegible] **State Snapshot Transfer [illegible] SST** [illegible] Galera [illegible] SQL [illegible] JOIN[illegible]

[illegible] 2024 [illegible] **35%** Verizon [illegible]

SST [illegible]

State Snapshot Transfer [illegible] Galera [illegible] IST[illegible] SST[illegible]

1. [illegible]
2. [illegible] mariabackup[illegible]rsync [illegible] mysqldump[illegible]
3. [illegible]
4. [illegible]

[illegible]**SST**

[illegible]

[illegible]

```
[mysqld]
wsrep_cluster_address = gcomm://10.0.1.10,10.0.1.11,10.0.1.12
wsrep_sst_method = mariabackup
wsrep_sst_auth = sst_user:sst_password
```

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□□□ TLS □□□

"□□□□ Galera □□□□□ TLS□"——□□□□□□□□□□□□□□□□□□□□

TLS □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ TLS□□□□□□□□□□□□ CA □□□□□□□□□□□□ PKI □□□□□□□□□□□□□□□□□□□□□□□□□□□□

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□□□□□wsrep_allow_list

□ MariaDB 10.10 □□□ `wsrep_allow_list` □□□□□□□□ IP □□□□□□□□□□□□□□□□□□□□□□□□

```
[mysqld]
wsrep_allow_list = 10.0.1.10,10.0.1.11,10.0.1.12
```

□□ IP □□□□□□□□□□□□□□□□□□□□□□□□□□ SST □□□ TLS □□□IP □□□□□□□□□□□□□□□□

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1. wsrep_allow_list——□□□□

□□□□□□□□□□ IP□

2. □□ TLS——□□□□

□□□□□□□□□□□□ CA □□□□□□□

3. □□□□——□□□□

Galera □□□□□□ 4567□4568□4444□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

4. □□□——□□□□

```
# iptables□□□□□□ IP □□ Galera □□
iptables -A INPUT -p tcp -s 10.0.1.10 --dport 4567 -j ACCEPT
iptables -A INPUT -p tcp -s 10.0.1.11 --dport 4567 -j ACCEPT
iptables -A INPUT -p tcp -s 10.0.1.12 --dport 4567 -j ACCEPT
iptables -A INPUT -p tcp --dport 4567 -j DROP
```

5. □□□ SST □□

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```
SHOW VARIABLES LIKE 'wsrep_allow_list';
SHOW VARIABLES LIKE 'wsrep_provider_options';
SELECT * FROM information_schema.WSREP_MEMBERSHIP;
```

□`wsrep_allow_list` □□□□□□□□□□□□□□□□□□□□

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Galera SST `wsrep_allow_list` + □□□□TLS + □□□□ + □□□□□□□□□□□□□□

35% □□□□□□□□□□□□□ Galera □□□□□□□□□

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