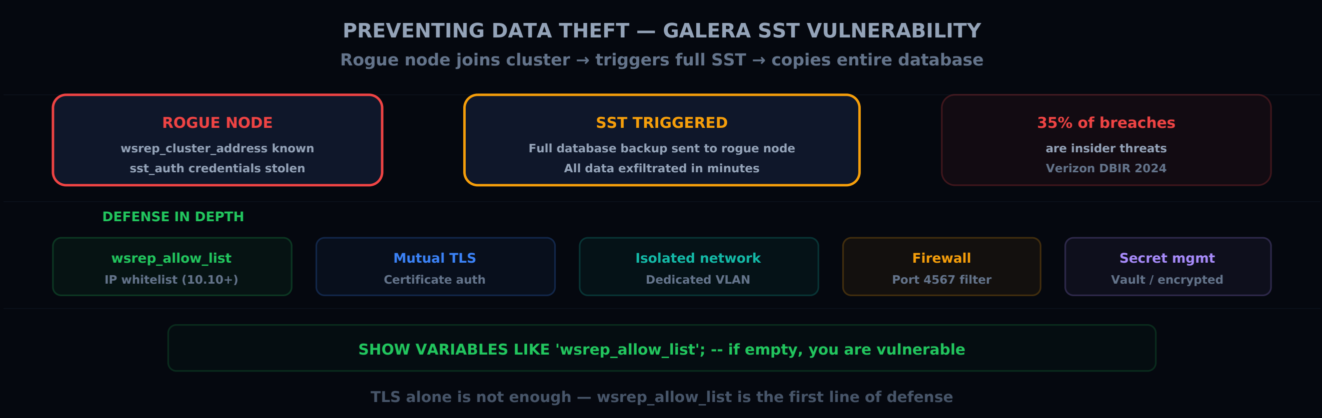
[illegible]Galera [illegible]

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

GALERA MARIADB SECURITY SST



[illegible]

[illegible] MariaDB [illegible] wsre[illegible] **State Snapshot Transfer（SST）**[illegible] Galera [illegible]

[illegible] SQL [illegible] JOIN[illegible]

[illegible] 2024 [illegible] **35%** [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
```

[illegible]SST [illegible] SST [illegible] Ansible playbook [illegible] Git [illegible]

[illegible] TLS [illegible]

"[illegible] Galera [illegible] TLS[illegible]"——[illegible]

TLS [illegible] TLS[illegible] CA [illegible] PKI [illegible]

[illegible] Galera [illegible]mutual TLS[illegible] TLS [illegible]

[illegible]wsrep_allow_list

[illegible] MariaDB 10.10[illegible] `wsrep_allow_list` [illegible] IP [illegible]

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

[illegible] IP [illegible] SST [illegible] TLS [illegible]IP [illegible]

[illegible] Galera [illegible]

[illegible]

Galera [illegible]

1. wsrep_allow_list——[illegible]

[illegible] IP[illegible]

2. [illegible] TLS——[illegible]

[illegible] CA [illegible]

3. [illegible]——[illegible]

Galera [illegible] 4567[illegible]4568[illegible]4444[illegible]

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 □□

□□□□□□□□ SST □□□□□□□□□□□Vault□AWS Secrets Manager□□□□□□□□□□□□

□□□□□□

□□□□□□ Galera □□□□□□□

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

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

□□

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

35% □□□□□□□□□□□□□ Galera □□□□□□□□□

□Medium□