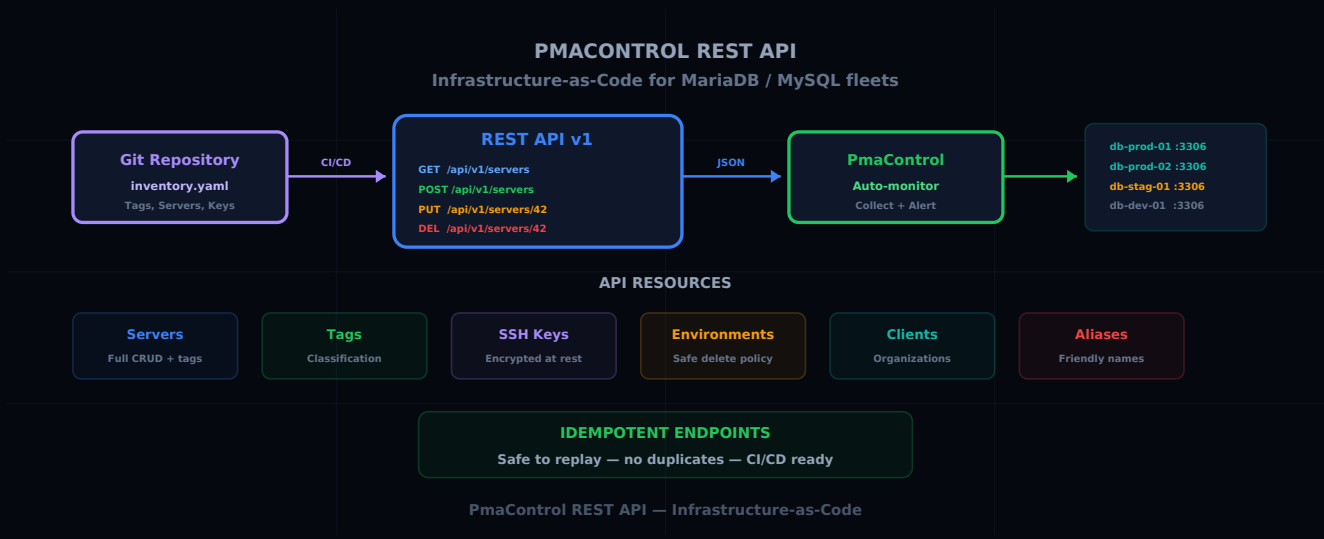


PmaControl REST API MariaDB / MySQL

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PMACONTROL REST-API INFRASTRUCTURE-AS-CODE DEVOPS AUTOMATION



REST API

PmaControl Web MariaDB / MySQL

10 50 200

PmaControl REST API Web JSON YAML JSON

API webservice PmaControl Web API

```
curl -H "Authorization: Bearer <token>" \
-H "Content-Type: application/json" \
https://pmacontrol.example.com/api/v1/servers
```

webservice ACL

API


```
# GET
GET /api/v1/environments

# POST
POST /api/v1/environments
{"name": "staging", "description": "Pre-production environment"}

# DELETE
DELETE /api/v1/environments/3
# {"reassigned_servers": 12, "target_environment": "default"}
```

XXXXXXXXXXXXXXXXXXXX

II

XXXXXXXXXXXX IP XXXXXXXXXXXX

```
# GET
GET /api/v1/aliases

# POST
POST /api/v1/aliases
{"alias": "db-writer-prod", "server_id": 42}
```

IIII

XXXXXXXXXXXXXXXXXXXX

```
# GET
GET /api/v1/storage-areas

# POST
POST /api/v1/storage-areas
{"name": "dc-paris-1", "provider": "OVH", "location": "Paris, France"}
```

SSH II

PmaControl II SSH XXXXXXXXXXXX API XXXXXXXXXXXX

```
# GET SSH II
GET /api/v1/ssh-keys
```

```
# SSH
POST /api/v1/ssh-keys
{
  "name": "pmacontrol-collector-2026",
  "public_key": "ssh-ed25519 AAAA...",
  "private_key": "-----BEGIN OPENSSSH PRIVATE KEY-----\n..."
}

#
DELETE /api/v1/ssh-keys/5
```

API GET

MariaDB / MySQL CRUD

```
#
GET /api/v1/servers

#
GET /api/v1/servers?tag=production&environment=staging

#
GET /api/v1/servers/42

#
POST /api/v1/servers
{
  "hostname": "db-prod-01.acme.com",
  "ip": "10.0.1.10",
  "port": 3306,
  "ssh_key_id": 5,
  "client_id": 7,
  "environment_id": 1,
  "tags": ["production", "galera", "dc-paris"]
}

#
PUT /api/v1/servers/42
```



```
port: 3306
ssh_key: collector-2026
environment: production
tags: [production, galera]

- hostname: db-prod-02.acme.com
  ip: 10.0.1.11
  port: 3306
  ssh_key: collector-2026
  environment: production
  tags: [production, galera]

- hostname: db-staging-01.acme.com
  ip: 10.0.2.10
  port: 3306
  ssh_key: collector-2026
  environment: staging
  tags: [staging]
```

□□□□

Python □ Bash □□□□□□□□ PmaControl API □□□□□

```
#!/bin/bash
API="https://pmacontrol.example.com/api/v1"
TOKEN="your-webservice-token"

# □□□□
for tag in production staging galera; do
  curl -s -X POST "$API/tags" \
    -H "Authorization: Bearer $TOKEN" \
    -H "Content-Type: application/json" \
    -d "{\"name\": \"$tag\"}"
done

# □□□□
curl -s -X POST "$API/servers" \
  -H "Authorization: Bearer $TOKEN" \
  -H "Content-Type: application/json" \
  -d @server-prod-01.json
```

CI/CD □□

CI/CD

1. DBA 在 Git 仓库中创建 `pmacontrol-inventory.yaml`
2. 配置 CI/CD
3. CI 配置中指定 IP 地址和 SSH 密钥
4. CD 配置中指定 PmaControl API 地址
5. PmaControl 部署

API

IP 地址 API 地址

```
# 201
POST /api/v1/servers → 201 Created

# 200
POST /api/v1/servers → 200 OK
```

API

API 地址	返回内容
200	成功
201	成功
204	成功
400	失败
401	失败
403	失败
404	失败
409	失败

API

v1 API 实现 CRUD 功能

- 实现 v2 接口
- 实现 v2 接口
- 实现 v2 接口
- my.cnf ProxySQL 配置

二

PmaControl 的 REST API 与 MariaDB / MySQL 交互

通过 Git 管理 API 与 PmaControl 交互