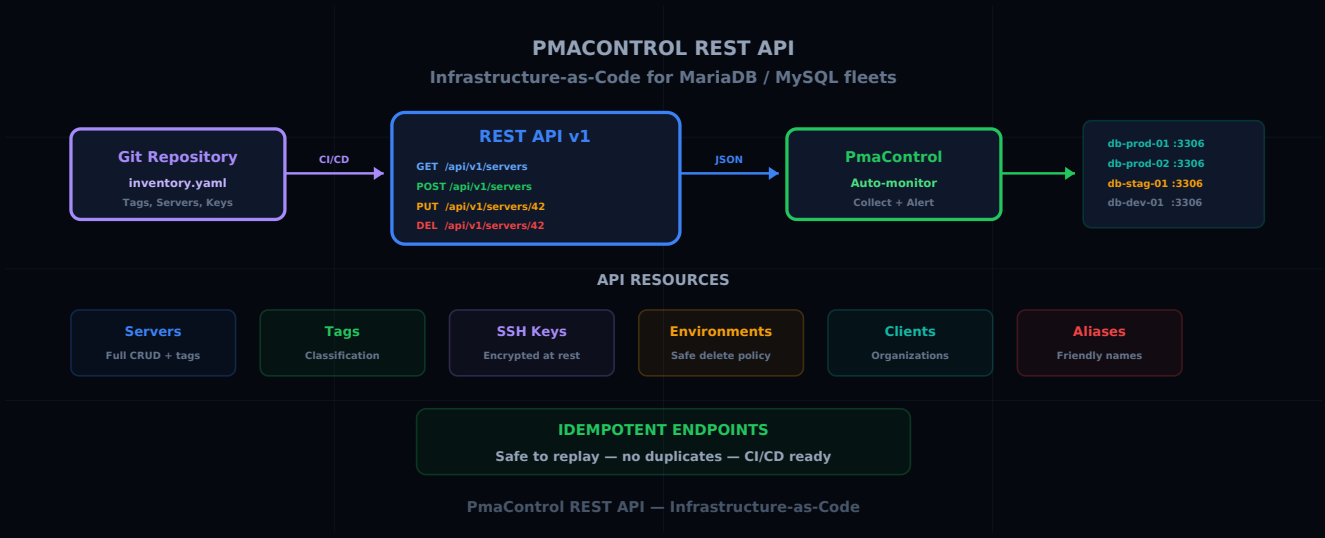
PmaControl REST API□MariaDB / MySQL □□□□□□□

Aurélien LEQUOY · 2026□3□15□

PMACONTROL REST-API INFRASTRUCTURE-AS-CODE DEVOPS AUTOMATION



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PmaControl □□□□□ Web □□□□□□□□□□□□□ MariaDB / MySQL □□□□□□□□□□□□□□□□□□□□□□□□

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PmaControl □ REST API□Web□□□□□□□□□□□□□□□□□□ JSON □□□□□□□□□□□□□□□□□□□□□□□ YAML □ JSON □□□□□□□□□□□□□□□□□□□

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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 □□

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[illegible] PmaControl [illegible]production[illegible]staging[illegible]client-acme[illegible]dc-paris [illegible]

```
# [illegible]
GET /api/v1/tags

# [illegible]
POST /api/v1/tags
{"name": "production", "color": "#22c55e"}

# [illegible]
PUT /api/v1/tags/42
{"name": "prod", "color": "#22c55e"}

# [illegible]
DELETE /api/v1/tags/42
```

[illegible]

[illegible]

[illegible]

```
# [illegible]
GET /api/v1/clients

# [illegible]
POST /api/v1/clients
{"name": "Acme Corp", "contact_email": "dba@acme.com"}

# [illegible]
PUT /api/v1/clients/7
{"name": "Acme Corporation"}

# [illegible]
DELETE /api/v1/clients/7
```

[illegible]

[illegible]production[illegible]staging[illegible]development[illegible]

```
# 列出环境
GET /api/v1/environments

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

# 删除——服务器被重新分配
DELETE /api/v1/environments/3
# 响应: {"reassigned_servers": 12, "target_environment": "default"}
```

此策略可防止在重组环境时意外删除服务器。

别名

别名允许您使用可读名称而非 IP 或内部主机名来引用服务器。

```
# 列出别名
GET /api/v1/aliases

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

存储区域

存储区域代表存储区域（数据中心、云区域等）。

```
# 列出存储区域
GET /api/v1/storage-areas

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

SSH 密钥

PmaControl 使用 SSH 密钥连接服务器并收集指标。API 管理密钥的生命周期。

```
# 列出 SSH 密钥
GET /api/v1/ssh-keys
```

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

# □□□□
DELETE /api/v1/ssh-keys/5
```

□□□□ PmaControl □□□□□□□□□□□□API □ GET □□□□□□□□□□□□□□

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□□□□□□□□□□ 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": 3307}

# [illegible]
POST /api/v1/servers/42/tags
{"tags": ["production", "critical"]}

# [illegible] SSH [illegible]
PUT /api/v1/servers/42/ssh-key
{"ssh_key_id": 5}

# [illegible]
DELETE /api/v1/servers/42
```

[illegible]

API [illegible]

[illegible]YAML [illegible]

```
# pmacontrol-inventory.yaml
tags:
  - name: production
    color: "#22c55e"
  - name: staging
    color: "#f59e0b"
  - name: galera
    color: "#14b8a6"

environments:
  - name: production
  - name: staging
  - name: development

ssh_keys:
  - name: collector-2026
    public_key_file: ./keys/collector-2026.pub

servers:
  - hostname: db-prod-01.acme.com
    ip: 10.0.1.10
```

```
    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]
```

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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 □□

[illegible] CI/CD [illegible]

1. DBA [illegible] Git [illegible]`pmacontrol-inventory.yaml` [illegible]
2. [illegible]
3. CI [illegible] IP[illegible] SSH [illegible]
4. CD [illegible] PmaControl API [illegible]
5. PmaControl [illegible]

[illegible]

[illegible] IP[illegible]API [illegible]

```
# [illegible] 201
POST /api/v1/servers  → 201 Created

# [illegible]200
POST /api/v1/servers  → 200 OK[illegible]
```

[illegible]

[illegible]	[illegible]
200	[illegible]
201	[illegible]
204	[illegible]
400	[illegible]
401	[illegible]
403	[illegible]
404	[illegible]
409	[illegible]

[illegible]

v1 API □□□□□ CRUD □□□□□□□□

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- □□my.cnf□ProxySQL □□□——□□

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PmaControl □ REST API □ MariaDB / MySQL □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

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