Automatically add MariaDB / MySQL servers to PmaControl via the webservice

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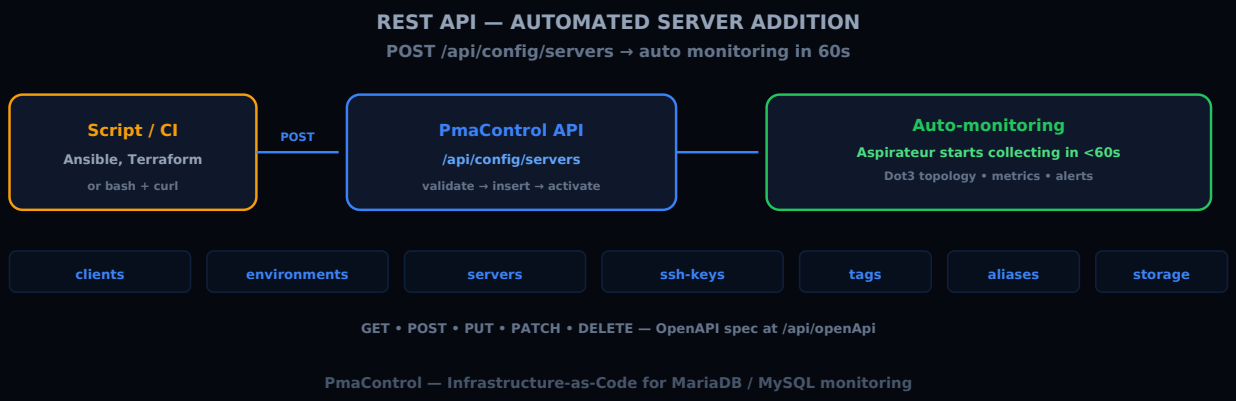
PMACONTROL REST-API AUTOMATION DEVOPS WEBSERVICE



Why automate server addition

When you're monitoring 5 MariaDB / MySQL servers, adding them manually to PmaControl is fine. At 50 or 200 servers, it no longer is.

PmaControl's REST API enables you to industrialise this process: a script, a CI/CD pipeline, or an orchestration tool (Ansible, Terraform) can create a monitored server in a single HTTP request.

Prerequisites

- An active webservice account in PmaControl (created during installation via `config.json`)
- Your PmaControl instance URL
- Target client and environment must exist (create them first via the API if needed)

Main endpoint

```
POST /fr/api/config/servers
Content-Type: application/json
```

Authentication via the webservice account configured in `configuration/webservice.config.php`.

Payload for adding a server

```
{
  "id_client": 1,
  "id_environment": 1,
  "name": "prod-db-01",
  "display_name": "Production DB 01",
  "ip": "10.68.68.100",
  "hostname": "prod-db-01.internal",
  "login": "pmacontrol",
  "passwd": "SecurePassword123",
  "database": "information_schema",
  "port": 3306,
  "is_ssl": 0,
  "ssh_port": 22,
  "ssh_login": "pmacontrol",
  "is_sudo": 1,
  "is_root": 0,
  "is_monitored": 1,
  "is_proxy": 0,
  "is_vip": 0
}
```

Key fields

Field	Description
`id_client`	Client (organisation) identifier
`id_environment`	Environment identifier (Production, Staging, etc.)
`ip`	MySQL server access IP address
`port`	MySQL port (3306 by default)
`login` / `passwd`	MySQL credentials for data collection
`is_monitored`	1 = active monitoring, 0 = disabled
`is_proxy`	1 if ProxySQL/MaxScale (tests connection differently)

Field	Description
`is_vip`	1 if VIP/DNS entry (no direct connection, tracks redirection)

Create dependencies first

Before adding a server, the client and environment must exist.

Create a client

```
curl -s -X POST http://pmacontrol.local/fr/api/config/clients \
  -H "Content-Type: application/json" \
  -d '{"name": "68Koncept", "description": "Production infrastructure"}'
```

Create an environment

```
curl -s -X POST http://pmacontrol.local/fr/api/config/environments \
  -H "Content-Type: application/json" \
  -d '{"name": "Production", "description": "Live servers"}'
```

Add an SSH key

```
curl -s -X POST http://pmacontrol.local/fr/api/config/ssh-keys \
  -H "Content-Type: application/json" \
  -d '{"name": "deploy-key", "private_key": "-----BEGIN RSA PRIVATE KEY-----\n..."}'
```

Bulk addition script

```
#!/bin/bash
PMAC="http://pmacontrol.local"
CLIENT_ID=1
ENV_ID=1

SERVERS=(
  "prod-db-01:10.68.68.100:3306"
  "prod-db-02:10.68.68.101:3306"
  "prod-db-03:10.68.68.102:3306"
```

```
  "prod-proxy-01:10.68.68.200:6033"
)

for entry in "${SERVERS[@]}"; do
  IFS=: read -r name ip port <<< "$entry"
  is_proxy=0
  [[ "$name" == *proxy* ]] && is_proxy=1

  curl -s -X POST "$PMAC/fr/api/config/servers" \
    -H "Content-Type: application/json" \
    -d "{
      \"id_client\": $CLIENT_ID,
      \"id_environment\": $ENV_ID,
      \"name\": \"$name\",
      \"display_name\": \"$name\",
      \"ip\": \"$ip\",
      \"port\": $port,
      \"login\": \"pmacontrol\",
      \"passwd\": \"PmacMonitor2026\",
      \"database\": \"information_schema\",
      \"is_monitored\": 1,
      \"is_proxy\": $is_proxy,
      \"ssh_port\": 22,
      \"ssh_login\": \"pmacontrol\"
    }"
  echo " → $name added"
done
```

List existing servers

```
curl -s http://pmacontrol.local/fr/api/config/servers | jq '.[] | {id, name, ip,
is_monitored}'
```

Update a server

```
PUT /fr/api/config/servers/{id}
```

```
curl -s -X PUT http://pmacontrol.local/fr/api/config/servers/5 \
  -H "Content-Type: application/json" \
  -d '{"is_monitored": 0}'
```

Delete a server

Deletion is a **soft delete** (`is_deleted = 1`). The server disappears from the interface but stays in the database:

```
curl -s -X DELETE http://pmacontrol.local/fr/api/config/servers/5
```

Tags for organising servers

Tags let you categorise servers (datacenter, role, version):

```
curl -s -X POST http://pmacontrol.local/fr/api/config/tags \
  -H "Content-Type: application/json" \
  -d '{"name": "dc-paris", "description": "Paris datacenter"}'
```

Verification after addition

After addition, PmaControl automatically starts collection if `is_monitored = 1` . Check in the interface:

1. The server appears in `Server > Main`
2. The Dot3 topology updates on the next cycle
3. First metrics arrive within 60 seconds

OpenAPI specification

PmaControl exposes its full OpenAPI spec:

```
GET /fr/api/openApi
```

Usable with Swagger UI or to auto-generate SDK clients.

Conclusion

PmaControl's REST API turns server addition from a manual task into a scriptable, repeatable operation. Combined with Ansible or Terraform, it enables an Infrastructure-as-Code approach to MariaDB / MySQL monitoring.