

# Utiliser l'API REST de Proxmox avec Powershell

## Ressources

Documentation de l'API Proxmox : [https://pve.proxmox.com/wiki/Proxmox\\_VE\\_API](https://pve.proxmox.com/wiki/Proxmox_VE_API)

Utilisation avec Powershell : <https://github.com/Corsinvest/cv4pve-api-powershell>

## Créer un clé API

\* sans séparation de privilège

## Installation de Powershell 7

```
iex "& { $(irm https://aka.ms/install-powershell.ps1) } -UseMSI -Quiet"
```

## Install du module Powershell

Ouvrir une console Powershell

```
PS > Install-Module -Name Corsinvest.ProxmoxVE.Api
```

## Connexion au cluster

- Connexion au cluster en indiquant un jeton d'API

```
PS> Import-Module Corsinvest.ProxmoxVE.Api
```

```
PS > $ticket = Connect-PveCluster -HostsAndPorts 10.187.36.13:8006 -SkipCertificateCheck -ApiToken  
nom_jeton=valeur_jeton
```

```
#return Ticket, default set $Global:PveTicketLast  
#this is useful when connections to multiple clusters are needed use parameter -SkipRefreshPveTicketLast
```

```
# visualiser le ticket
```

```
PS> $ticket  
HostName           : 1.0xxx.xxx.xxx  
Port                : 8006  
SkipCertificateCheck : True  
CSRFPreventionToken :  
ApiToken            : nom_jeton=valeur_jeton  
CSRFPreventionToken :
```

```
#For disable output call Connect-PveCluster > $null
```

```
#Get version
```

```
PS > $ret = Get-PveVersion
```

```
#$ret return a class PveResponse
```

```
#Show data
```

```
PS > $ret.Response.data
```

```
version repoid          release  
-----  
8.1.4    ec5affc9e41f1d79 8.1
```

```
#Show data 2
```

```
PS /home/frank> $ret.ToTable()
```

| version | repopid          | release |
|---------|------------------|---------|
| 8.1.4   | ec5affc9e41f1d79 | 8.1     |

Lister les VM d'un noeud

PS > (Get-PveNodesQemu -node siohyp2 -Full).ToTable()

| mem     | diskread      | status | disk    | cpu | diskwrite | netout | cpus | maxmem     | qmpstatus | netin | uptime |
|---------|---------------|--------|---------|-----|-----------|--------|------|------------|-----------|-------|--------|
| maxdisk | name          |        | vmid    |     |           |        |      |            |           |       |        |
| 0       | 34359738368   | 0      | stopped | 0   | 0         | 0      | 4    | 2147483648 | stopped   | 0     |        |
| 0       | WinCouderchon | 0      | stopped | 0   | 0         | 0      | 2    | 4194304000 | stopped   | 0     |        |
| 0       | 53687091200   | 0      | stopped | 0   | 0         | 0      | 4    | 1073741824 | stopped   | 0     |        |
| 0       | SNS           | 0      | stopped | 0   | 0         | 0      | 4    | 1073741824 | stopped   | 0     |        |

Lister les conteneurs LXC d'un noeud

(Get-PveNodeslxc -node siohyp2).ToTable()

| netin   | maxmem    | type      | uptime | maxdisk | name       | vmid                  | mem     | diskread |
|---------|-----------|-----------|--------|---------|------------|-----------------------|---------|----------|
| status  | diskwrite | netout    |        | disk    | cpu        | swap                  | maxswap | cpus     |
| stopped | 0         | 536870912 | lxc    | 0       | 8589934592 | abdessamad.elbouzrati | 669     | 0        |
| stopped | 0         | 536870912 | lxc    | 0       | 8589934592 | debian-client-11      | 150     | 0        |
| stopped | 0         | 536870912 | lxc    | 0       | 8589934592 | debian-routeur        | 166     | 0        |

Afficher que les Vmid

```
PS C:\Users\boulesteix.fabien> (Get-PveNodeslxc -node siohyp2).response.data | Select-Object vmid
```

Lister les pools de ressources

```
(Get-PvePools).todata()
```

Lister les VM d'un pool de ressources

```
(Get-PvePools -Poolid nompool).Response.data.members | where-Object type -EQ "qemu" | Select-Object vmid
```

Lister les conteneur d'un pool de ressources

```
(Get-PvePools -Poolid nompool).Response.data.members | where-Object type -EQ "lxc" | Select-Object vmid
```

Supprimer un conteneur LXC

```
Remove-PveNodesLxc -DestroyUnreferencedDisks -Force -Node siohyp1 -Purge -Vmid 188

Response      : @{data=UPID:siohyp1:00189780:20ABFE12:66DC528F:vzdestroy:188:nom_jeton;}
StatusCode    : 200
ReasonPhrase   :
IsSuccessStatusCode : True
```

```
RequestResource : /nodes/siohyp1/lxc/188
Parameters      : {[force, 1], [purge, 1], [destroy-unreferenced-disks, 1]}
Method          : Delete
ResponseType    : json
```

## Supprimer les conteneurs LXC d'un pool de ressources

```
(Get-PvePools -Poolid nom_pool).Response.data.members | where-Object type -EQ "lxc" | Select-Object
vmid, node | foreach-object { Remove-PveNodesLxc -DestroyUnreferencedDisks -Force -Node $PSItem.node -
Purge -Vmid $PSItem.vmid}
```

## Supprimer les conteneurs LXC de plusieurs pools de ressources

```
PS > (Get-PvePools).todata() | Where-Object poolid -like "*2022*" | Select-Object poolid | foreach-
object {(Get-PvePools -Poolid nom_pool).Response.data.members } | where-Object type -EQ "lxc" | Select-
Object vmid, node | foreach-object { Remove-PveNodesLxc -DestroyUnreferencedDisks -Force -Node
$PSItem.node -Purge -Vmid $PSItem.vmid}
```

```
(Get-PvePools).todata() | Where-Object poolid -like "*2022*" | Select-Object poolid | foreach-object
{(Get-PvePools -Poolid nom_pool).Response.data.members } | where-Object type -EQ "lxc" | Select-Object
vmid, node | foreach-object { "node : $PSItem.node vmid : $PSItem.vmid}
```

==== Arrêter et supprimer les VM d'un pool de ressources====

<code>

```
(Get-PvePools -Poolid SI02022Hajji).Response.data.members | where-Object type -EQ "qemu" | Select-Object
vmid, node | foreach-object { Stop-PveVm -VmIdOrName $PSItem.vmid}
```

```
(Get-PvePools -Poolid nom_pool).Response.data.members | where-Object type -EQ "qemu" | Select-Object
vmid, node | foreach-object { Remove-PveNodesQemu -DestroyUnreferencedDisks -Node $PSItem.node -Purge -
Vmid $PSItem.vmid}
```

## Lister les étudiants d'une promotion

```
PS C:\Users\boulesteix.fabien> (Get-PveAccessusers -full).Response.data | Where-Object groups -eq
'BTSI02022' | Select-Object userid
```

userid

-----

toto.florian@Valadon

tata@Valadon

## Lister les permissions d'un compte

```
PS > (Get-PveAccesspermissions -Userid hajji.maryam@Valadon).Response.data
```

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