

Utiliser l'API REST de Proxmox avec Powershell

Ressources

Documentation de l'API Proxmox : 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

* Rechercher la dernière version de Powershell Core

```
winget search Microsoft.PowerShell
```

- Installer Powershell

```
winget install --id Microsoft.PowerShell --source winget
```

Installez le module Powershell

Ouvrir une console Powershell

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

Vérifier l'installation du module

```
PS > Get-Module -ListAvailable 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.xxx.xxx.xxx: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  
CSRFPventionToken  :  
ApiToken            : nom_jeton=valeur_jeton  
CSRFPventionToken  :
```

```
#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 repoid          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 0 0 0 0 0 0 4 2147483648 stopped 0
0 34359738368 WinCouderschon 262
0 0 0 0 0 0 0 2 4194304000 stopped 0
0 53687091200 ServeurAD 214
0 0 0 0 0 0 0 4 1073741824 stopped 0
0 10737483776 SNS 105
```

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
-----
0 536870912 lxc 0 8589934592 abdessamad.elbouzrati 669 0 0
stopped 0 0 0 0 0 0 536870912 1
0 536870912 lxc 0 8589934592 debian-client-11 150 0 0
stopped 0 0 0 0 0 0 536870912 1
0 536870912 lxc 0 8589934592 debian-routeur 166 0 0
stopped 0 0 0 0 0 0 536870912 1
```

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

Code alternatif car cela ne semble pas fonctionner :

```
#$ticket = Connect-PveCluster -HostsAndPorts 10.187.36.12:8006 -SkipCertificateCheck -ApiToken
techer.charles@Valadon!powershell=dd5e96f7-fcd9-4fea-ad12-7bbdbd08760d

# Définir un tableau de pools
$poolList = @("nompool1", "nompool2", "nompool3")

# Boucle sur chaque Pool
foreach ($pool in $poolList) {
    Write-Host "Traitement du Pool $pool"

    # appel API de Corsinvest.ProxmoxVE.Api
    (Get-PvePools -Poolid $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}
    Write-Host "Pool supprimé : $pool"
    #arrêter les VM
    (Get-PvePools -Poolid $pool).Response.data.members | where-Object type -EQ "qemu" | Select-Object
vmid, node | foreach-object { Stop-PveVm -VmIdOrName $PSItem.vmid}
    #supprimer les VM
    (Get-PvePools -Poolid $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}

    #supprimer le pool
    Remove-PvePools -Poolid $pool
}
}
```

Arrêter et supprimer les VM d'un pool de ressources

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

#supprimer les VM
(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}
```

Arrêter et supprimer les VM de plusieurs pools de ressources

```
#Arrêter toutes les VM concernées  
PS > (Get-PvePools).todata() | Where-Object poolid -like "*2022*" | foreach-object {(Get-PvePools -  
Poolid $PSItem.poolid).Response.data.members} | where-Object type -EQ "qemu" | Select-Object vmid, node  
| foreach-object { Stop-PveVm -VmIdOrName $PSItem.vmid}  
  
#supprimer toutes les VM concernées  
PS > (Get-PvePools).todata() | Where-Object poolid -like "*2022*" | foreach-object {(Get-PvePools -  
Poolid $PSItem.poolid).Response.data.members} | where-Object type -EQ "qemu" | Select-Object vmid, node  
| foreach-object { Remove-PveNodesQemu -DestroyUnreferencedDisks -Node $PSItem.node -Purge -Vmid  
$PSItem.vmid}
```

Supprimer plusieurs pools de ressources

```
#Arrêter toutes les VM concernées  
PS > (Get-PvePools).todata() | Where-Object poolid -like "*2022*" | foreach-object {Remove-PvePools -  
Poolid $PSItem.poolid }  
  
===== Lister les étudiants d'une promotion =====  
<code powershell>  
PS > (Get-PveAccessusers -full).Response.data | Where-Object groups -eq 'BTSSI02022' | Select-Object  
userid  
  
userid  
-----  
toto.florian@Valadon  
tata@Valadon
```

Lister les permissions d'un compte

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

From:
/ - Les cours du BTS SIO

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