

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 stopped 0 0 0 0 4 2147483648 stopped 0
0 34359738368 WinCouderschon 262
0 0 0 stopped 0 0 0 0 2 4194304000 stopped 0
0 53687091200 ServeurAD 214
0 0 0 stopped 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
    Write-Host "Pool $pool supprimé"
}
}
```

Code à améliorer car dans les faits, il faut relancer plusieurs fois le script, le temps que les conteneurs LXC et les VM soient effectivement supprimés pour pouvoir supprimer leur 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
```

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/ - Les cours du BTS SIO

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</doku.php/reseau/cloud/proxmox/apiRESTpowershell?rev=1757252759>

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