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# Download

## Option 1: Download via git

git clone https://github.com/JanTkacSk/PSZabbix7.git

## Option 2: Download manually

[https://github.com/JanTkacSk/PSZabbix7.git](https://github.com/JanTkacSk/PSZabbix6.0.git) > code > Download.zip

# Import

## Option 1: Import the module to the current session only

The module will have to be re-imported every time you open PowerShell. Adjust the path based on the location of your package.

Import-Module C:\Users\YourUser\PSZabbix7\PSZabbix7.psm1

## Option 2: Import the module at PowerShell startup

### Option 1: Edit the PowerShell profile via a scipt

Open PowerShell or PowerShell\_ise or a PowerShell terminal in VSCode and run the following command. Adjust the path based on the location of your package.

. C:\Users\YourUser\PSZabbix7\ZX.UpdatePSProfile.ps1

### Option 2: Edit the PowerShell profile manually

Open PowerShell or PowerShell\_ise or Terminal in VSCode

You may have to repeat this process for different PowerShell versions, classic PowerShell console, PowerShell ISE , VS code….

Open the profile script by running the following command. If the profile file does not exist the notepad will offer to create it for you.

notepad $Profile

Add the following line into the file and save it. Adjust the path based on the location of your package.

Import-Module C:\Users\YourUser\PSZabbix7\PSZabbix7.psm1

# Connect to API

Use New-ZXTokenSession to set your API token and URL. The token and the url can be saved in a secure string in your appdata. It can be loaded automatically when you open PowerShell by editing your PowerShell profile.

Use New-ZXLogonSession to load your credentials in a similar way. Use Stop-ZXSession to terminate your session when you are finished.

The session id is automatically stored in your profile, If you don not log off, the session will remain in your profile and the script will attempt to use the same session next time.

New-ZXTokenSession

## Examples

### Example 1: Start new session and save the url/token pair

You will be prompted to fill in the password. The token will be encrypted and saved in your profile folder.

New-ZXTokenSession -Url https://YourZabbixAPIURL -Save

### Example 2: Start new session using the saved url/token pair

New-ZXTokenSession -Url https://YourZabbixAPIURL -Load

### Example 3: Start new session by choosing one of the saved url/token pair

New-ZXTokenSession -Url -Load

### Example 4: Start a new session automatically with a new powershell session

Open the PowerShell profile. PowerShell\_ise and standard powershell console have separate profiles, so you may have to repeat this process.

notepad $Profile

Add the following line into the profile:

New-ZXTokenSession -Url https://YourZabbixAPIURL -Load

# Get-ZXHost

## Examples

### Example 1: Search for a single host based on an exact Name match.

Return only those results that exactly match the given host name(s). There is no result for “zx\_test\_host\_50” because it does not exist. In Zabbix API, host “**name”** is called “**host**” and “**visible name”** is called “**name**”. In PowerShell module “**name**” is “**Name**” and the “**visible name**” is “**Alias**”

Get-ZXHost -Name zx\_test\_host\_1,zx\_test\_host\_2,zx\_test\_host\_50

hostid : 492558

host : zx\_test\_host\_1

name : zx\_alias\_1

status : 1

proxy\_hostid : 36710

hostid : 494040

host : zx\_test\_host\_2

name : zx\_alias\_2

status : 1

proxy\_hostid : 36710

### Example 2: Search for hosts based on a Name pattern.

Return results that match the given pattern (case-insensitive). Accepts a host name to search for. If no additional options are given, this will perform a LIKE "%…%" search.

Get-ZXHost -NameSearch zx\_test

hostid : 492558

host : zx\_test\_host\_1

name : zx\_alias\_1

status : 1

proxy\_hostid : 36710

hostid : 494040

host : zx\_test\_host\_2

name : zx\_alias\_2

status : 1

proxy\_hostid : 36710

### Example 3: Search for hosts based on an Alias pattern.

Return results that match the given pattern (case-insensitive). Accepts a host name to search for. If no additional options are given, this will perform a LIKE "%…%" search.

Get-ZXHost -AliasSearch some-alias

### Example 4: Fetch host “items”.

By using -IncludeItems you will get a basic set of properties for each item.

Get-ZXHost -NameSearch vm-win -IncludeItems

hostid : 499271

host : vm-win-test-1

name : vm-win-test-1

status : 0

proxy\_hostid : 0

items : {@{itemid=53119623; name=C:: Access; type=0; delay=3m; master\_itemid=0; lastvalue=0}, @{itemid=53119533;

name=caCertificate; type=0; delay=1h; master\_itemid=0; lastvalue=}, @{itemid=53119534; name=caPendingUpdates;

type=7; delay=4h; master\_itemid=0; lastvalue=}, @{itemid=53119625; name=C:: Free space; type=7; delay=3m;

master\_itemid=0; lastvalue=0}…}

### Example 5: Fetch host “items”, fetch only name and type of each item.

Get-ZXHost -NameSearch vm-win -IncludeItems -ItemProperties name,type -Output host

hostid host items

------ ---- -----

473312 vvs-test-web03.int.cc-mase.com {@{name=Zabbix agent running - Host name; type=0}, @{name=Zabbix agent running - Status; type=7}, @{name=Zabbix agent running - Version; type=7}, @{name=Disk IO sum (a…

### Example 6: Fetch host “items” with all properties.

Get-ZXHost -NameSearch vm-win -IncludeItems -ItemProperties extend

### Example 7: Fetch host triggers.

Get-ZXHost -Name test -IncludeTriggers -TriggerProperties description | Select-Object -ExpandProperty triggers

triggerid description

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5718296 System not reachable by ICMP

5718297 Zabbix agent not available (or nodata for {$AGENT.NODATA\_TIMEOUT})

5718298 High swap space usage (less than {$SWAP.PFREE.MIN.CRIT}% free)

5718299 High swap space usage (less than {$SWAP.PFREE.MIN.WARN}% free)

5718300 High memory utilization ( >{$MEMORY.UTIL.CRIT}% for 5m)

5718301 Load average too high (per CPU load over {$LOAD\_AVG\_PER\_CPU.MAX.WARN} for 60m)

5718302 High CPU utilization (over {$CPU.UTIL.CRIT}% for 30m)

5718309 Zombie processes (over {$PROCS.ZOMBIES.WARN} for 60m)

5718310 Zombie processes (over {$PROCS.ZOMBIES.CRIT} for 120m)

5718311 SCSI Device Timeout < 180 seconds

5718312 NTP Time Offset +- 150 seconds

### Example 8: Fetch hosts and interfaces.

Get-ZXHost -NameSearch test -IncludeInterfaces -Output host

hostid host interfaces

------ ---- ----------

476172 vm-win-test-1.test.local {}

481649 vm-win-test-2.test.local {@{ip=10.61.185.9; port=161}}

28948 vm-win-test-3.test.local {@{ip=10.30.0.71; port=10050}}

491371 vm-win-test-4.test.local {@{ip=; port=10050}}

25244 vm-win-test-5.test.local {@{ip=192.168.160.28; port=10050}, @{ip=192.168.160.28; port=9005}}

# Get-ZXMaintenance

### Example 1: Get maintenance mode information

Maintenanceid can be used to search the auditlog.

$HostID = Get-ZXHost -Name LAP\_Sued -Output hostid

Get-ZXMaintenance -HostId $HostID.hostid

maintenanceid : 1280564

name : vm-win-test-1.test.local

maintenance\_type : 0

description : “SomeText”

active\_since : 1737010800

active\_till : 1768604400

tags\_evaltype : 0

CreationTime :

# New-ZXTagFilter

### Example 1: Create a list of tags with operators and use it to find hosts that match all the conditions.

Using Get-Host with -WhatIf parameter to show what the json request looks like without actually making the API call.

$TagFilter = New-ZXTagFilter

$TagFilter.AddTag("#tag\_1","exists").AddTag("#tag\_2","notexists").AddTag("tag\_3","equals","value")

Get-ZXHost -Tag $TagFilter.Tags -WhatIf

JSON REQUEST

{

"jsonrpc": "2.0",

"method": "host.get",

"params": {

"output": [

"hostid",

"host",

"name",

"status",

"proxy\_hostid"

],

"tags": [

{

"tag": "#tag\_1",

"operator": "4",

"value": ""

},

{

"tag": "#tag\_2",

"operator": "5",

"value": ""

},

{

"tag": "tag\_3",

"operator": "1",

"value": "value"

}

]

},

"auth": "\*\*\*\*\*",

"id": "1"

}

# Get-ZXTrigger

### Example 1: Get a list of triggers on a host

If you want to export the data co .csv and paste it to Excel, do not use Format-Table, Use ConvertTo-CSV

$ZXHost = Get-ZXHost -NameSearch FRE-AHP -Output host,id

Get-ZXTrigger -HostID $ZXHost.hostid -Output extend | Format-Table

triggerid expression description url status value priority lastchange comments

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11120937 {24781606} = 1 Terminal Servers P12 - Info Problem 0 0 1 0 FRE DASHBOARD URL FOR AHP MONITORING:…

11120938 {24781607} = 1 Client Access Servers - Info Problem 0 0 1 0 FRE DASHBOARD URL FOR AHP MONITORING:…

11120939 {24781608} = 1 Terminal Servers P11 - Info Problem 0 1 1 1740553290 FRE DASHBOARD URL FOR AHP MONITORING:…

11120940 {24781609} = 1 Desktop Delivery Controllers - Info Problem 0 1 1 1740553265 FRE DASHBOARD URL FOR AHP MONITORING:…

11121027 {24781729} = 5 FRE AHP P11 - Critical Problem 0 0 5 1740502865 FRE DASHBOARD URL FOR AHP MONITORING:…

11121489 {24782358} = 5 FRE AHP P12 - Critical Problem 0 0 5 1740502865 FRE DASHBOARD URL FOR AHP MONITORING:…

11240779 {24925608} = 5 TEST TICKET - FRE AHP P11 - Critical Problem 0 0 5 0 FRE DASHBOARD URL FOR AHP MONITORING:…

11240781 {24925610} = 5 TEST TICKET - FRE AHP P12 - Critical Problem 0 0 5 0 FRE DASHBOARD URL FOR AHP MONITORING:…

### Example 2: Get a list of triggers and select specific properties

Get a list of properties that you can get and then get triggers with only properties you need.

$ZXHost = Get-ZXHost -NameSearch FRE-AHP -Output host,id

Get-ZXTrigger -HostID $ZXHost.hostid -Output Extend | Select-Object -First 1 | Get-Member -MemberType NoteProperty

Name MemberType Definition

---- ---------- ----------

comments NoteProperty string comments=FRE DASHBOARD URL FOR AHP MONITORING:…

correlation\_mode NoteProperty string correlation\_mode=0

correlation\_tag NoteProperty string correlation\_tag=

description NoteProperty string description=Terminal Servers P12 - Info Problem

error NoteProperty string error=

event\_name NoteProperty string event\_name=

expression NoteProperty string expression={24781606} = 1

flags NoteProperty string flags=4

lastchange NoteProperty string lastchange=0

manual\_close NoteProperty string manual\_close=0

opdata NoteProperty string opdata=

priority NoteProperty string priority=1

recovery\_expression NoteProperty string recovery\_expression=

recovery\_mode NoteProperty string recovery\_mode=0

state NoteProperty string state=0

status NoteProperty string status=0

templateid NoteProperty string templateid=0

triggerid NoteProperty string triggerid=11120937

type NoteProperty string type=0

url NoteProperty string url=

url\_name NoteProperty string url\_name=

uuid NoteProperty string uuid=

value NoteProperty string value=0

$ZXHost = Get-ZXHost -NameSearch FRE-AHP -Output host,id

Get-ZXTrigger -HostID $ZXHost.hostid -Output description,description,value,expression

triggerid description value expression

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11120937 Terminal Servers P12 - Info Problem 0 {24781606} = 1

11120938 Client Access Servers - Info Problem 0 {24781607} = 1

11120939 Terminal Servers P11 - Info Problem 1 {24781608} = 1

11120940 Desktop Delivery Controllers - Info Problem 1 {24781609} = 1

11121027 FRE AHP P11 - Critical Problem 0 {24781729} = 5

11121489 FRE AHP P12 - Critical Problem 0 {24782358} = 5

11240779 TEST TICKET - FRE AHP P11 - Critical Problem 0 {24925608} = 5

11240781 TEST TICKET - FRE AHP P12 - Critical Problem 0 {24925610} = 5