KEMP PS wrapper

All the cmdlets inside the KEMP PS wrapper, except the Test-LmServerConnection¹ cmdlet, return a PS object with the following structure:

- ReturnCode (integer)
- Response (string)
- Data (PS object, if any)

The ReturnCode field possible values are:

- 200: the command has been completed with success
- 4xx/500: the command ended with an error. The error code depends on the error type.

The Response field possible values are:

- Command successfully executed.
- Description of the error when the command fails. Example: Unknown parameter value Imversion.

The field Data contains the response if any. The structure of this field depends from the command. The elements of the this field can be accessed using the "*dot*" notation. This field is empty if the commands fails.

Example 1: Get the version of the firmware installed into the LoadMaster.

```
$lma = Get-LmParameter -Param version -LoadBalancer 172.21.59.85 -SubjectCN user1
$lma | Format-List

ReturnCode : 200
Response : Command successfully executed.
Data : @{version=7.2.39.0}

$lma.Data.version
7.2.39.0
```

Example 2: Get the available licenses for a specific order id.

```
$licDet = Get-LicenseType -KempId gigio@gigetto.com -Password supersecretpasswd
                                 -LoadBalancer 172.21.59.85 -Credential $lm85BalCreds -OrderId gigio20170517
$licDet | Format-List
ReturnCode: 200
Response : Command successfully executed.
           : @{License=System.Object[]}
$licDet Data License
              : 0632b88b577c71591798268bcd4e01132f082309
             : VLM-5000 ESP GEO with Basic 2 Years
name
available
description : VLM-5000 ESP GEO with Basic 2 Years
tethered
              : False
LicenseStatus : Permanent License
             : https://www.kemptechnologies.com/buy-me-now?KEMPID=gigio@gigetto.com
BuyMoreAt
             : fc488d991cffb7a5958625427d6bfb0b3edc008e
name : VLM-5000 WAF GEO with Basic 3 Years available : 1
id
description : VLM-5000 WAF GEO with Basic 3 Years
tethered
             : False
LicenseStatus : Permanent License
BuyMoreAt
             : https://www.kemptechnologies.com/buy-me-now?KEMPID=qiqio@qiqetto.com
              : VLM-5000 with Enterprise Plus subscription
name
available
            : 1
tethered
             : 0
              : 3eb92178611573946b422cf8d0df69d04c07fede
id
LicenseStatus : Temp License
description : VLM-5000 with Enterprise Plus subscription
BuyMoreAt
             : https://www.kemptechnologies.com/buy-me-now?KEMPID=gigio@gigetto.com
```

¹ The cmdlet Test-LmServerConnection returns True if the LoadMaster is reachable by the API, False if not.

In the above example the **\$licDet.Data.License** is an array and each single element of the array can be access using the "[]" notation. For example to access the field *name* of the second element of the previous array we have to use the following well known notation: **\$licDet.Data.License[1].name**. The index of the array starts from 0. The NULL object is returned if we try to access a not existing element.

The benefits of the this structure of the cmdlets answer are:

- Easy check for success/error (ReturnCode)
- Short description (Response)
- Data field (PS object on success/null on error)

ERRORS

If the error is a functional one, like wrong credentials, wrong parameter value, wrong load master ip address, the cmdlet returns a PS object as described with a ReturnCode containing the code of the error and with Response containing the description of the error that has been occurred.

Example: Try to get the firmware version installed into the LoadMaster using an invalid certificate (installed in the Windows machine but not belonging to any user inside the LoadMaster).

If the error is due to a wrong/missing mandatory input, the cmdlet throws an exception.

Example: Get the firmware version installed into the LoadMaster using a certificate not installed in the Windows machine.

Example: Get the firmware version installed into the LoadMaster without credentials/certificate.