PSCustomObject Challenge

```
{
   "host1": {
      "ports": [22, 443, 3306]
   },
   "host2": {
      "ports": []
   },
   "host3": {}
}
```

C#, Java, Perl, Python import JSON into Dictionary/List:

```
Value
Key
host1 {[ports, System.Collections.Generic.List[System.Object]]}
host2 {[ports, System.Collections.Generic.List[System.Object]]}
host3 {}
    TypeName: System.Collections.Generic.Dictionary 2...
                                                    Definition
                       MemberType
Name
bbA
                       Method
Clear
                       Method
Contains
                       Method
                       Method
Item
Count
                       Property
Keys
                       Property
Values
                       Property
```

Apply:

\$obj.Count
\$obj.Keys
\$obj.Item



Powershell operates PSCustomObjects

```
host1 : @{ports=System.Object[]}
host2 : @{ports=System.Object[]}
host3:
   TypeName: System.Management.Automation.PSCustomObject
              MemberType
                            Definition
Name
Equals
             Method
GetHashCode Method
             Method
GetType
ToString
             Method
host1
              NoteProperty
host2
              NoteProperty ...
Apply:
   $obj.Count
   $obj.PSObject.Properties.Name,Value
   $obj | Get-Member - MemberType NoteProperty |
   ForEach-Object {...}
                                                            $obj.'host1'.'ports'[1] => 443
```

About

- https://4sysops.com/archives/convert-json-to-a-powershe II-hash-table/
- System.Management.Automation.PSCustomObject is a default type when creating a custom object using the New-Object
- PSCustomObject directly derives from System.Object, does not implement any interface and does not have any fields or properties except the internal field SelfInstance