

```

1 # HSC Active Directory Module - Pester Tests
2 # Written by: Jeff Brusoe
3 # Last Updated: July 7 2021
4
5 BeforeAll {
6     $DefaultSAM = "DefaultSAM"
7
8     $ADUserObject = [PSCustomObject]@{
9         SamAccountName = $DefaultSAM
10        LastName = "Microsoft"
11        Enabled = $true
12        UserPrincipalName = "$DefaultSAM@hsc.wvu.edu"
13        DistinguishedName = "CN=$DefaultSAM,OU=SOM,OU=HSC,DC=HS,DC=WVU-
AD,DC=WVU,DC=EDU"
14    }
15
16    function Get-ADUser {
17        param (
18            [string]$LDAPFilter,
19            [string[]]$Properties,
20            [string]$Filter
21        )
22
23        $ADUserObject
24    }
25
26    Mock -CommandName "Get-ADUser" -ParameterFilter {$Properties -OR $LDAPFilter} -
MockWith {
27        foreach ($Property in $Properties) {
28            if ($Property -eq "proxyAddresses") {
29                $ProxyAddresses = @(
30                    "$DefaultSAM@hsc.wvu.edu"
31                    "$DefaultSAM.Microsoft@hsc.wvu.edu"
32                    "$DefaultSAM@wvuhsc.onmicrosoft.com"
33                )
34
35                $ADUserObject += @{proxyAddresses = $ProxyAddresses}
36            }
37
38            if ($Property -eq "mail") {
39                $ADUserObject += @{mail="$DefaultSAM@hsc.wvu.edu"}
40            }
41        }
42
43        if (![string]::IsNullOrEmpty($LDAPFilter)) {
44            $ADUserObject += @{LDAPFilter=$LDAPFilter}
45        }
46
47        $ADUserObject
48    }
49 }
50
51 Describe "ActiveDirectoryFunctionMocks" {
52     BeforeAll {
53         Import-Module HSC-ActiveDirectoryModule -Force
54     }
55
56     Context "Tests Cases That Should Work" {
57         It "Test Get-ADUser" {
58             $ADUser = Get-ADUser

```

```
59
60     $ADUser.SamAccountName |
61         Should -Be $DefaultSAM
62 }
63
64 It "Test Get-ADUser with LDAPFilter" {
65     $LDAPFilterTest = "(samAccountName=$DefaultSAM)"
66
67     $ADUser = Get-ADUser -LDAPFilter $LDAPFilterTest
68
69     $ADUser.LDAPFilter |
70         Should -Be $LDAPFilterTest
71 }
72
73 It "Test Get-ADUser with ProxyAddresses" {
74     $ADUser = Get-ADUser -Properties "proxyAddresses"
75
76     $ADUser.proxyAddresses |
77         Should -HaveCount 3
78 }
79
80 It "Test Get-ADUser with mail Attribute" {
81     $ADUser = Get-ADUser -Properties "mail"
82
83     $ADUser.mail |
84         Should -Be "$DefaultSAM@hsc.wvu.edu"
85 }
86 }
87 }
```