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## roles_comparison_between_2_vCenters.ps1
## build 1.00
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## on error stop the script
$erroractionpreference = "Stop"
$Username = "DOMAIN\USERNAME"
$Password = read-host "Enter Password" -assecurestring

### declare your source vcenter

$sourceserver = "source.vcenter.fqdn"

### declare your destination vcenter

$destserver = "destination.vcenter.fqdn"

### connect to the Source vCenter
Connect-VIServer -Server $sourceserver -user $Username -Password
([Runtime.InteropServices.Marshal]::PtrToStringAuto([Runtime.InteropServices.Marshal]::SecureStringToBSTR($password)))

### connect to the Destination vCenter
Connect-VIServer -Server $destserver -user $Username -Password
([Runtime.InteropServices.Marshal]::PtrToStringAuto([Runtime.InteropServices.Marshal]::SecureStringToBSTR($password)))

### retrieve the authorizationManager from both vCenters

[Reflection.Assembly]::LoadWithPartialName("vmware.vim") | Out-Null

$svcRef = new-object VMware.Vim.ManagedObjectReference
$svcRef.Type = "ServiceInstance"
$svcRef.Value = "ServiceInstance"

$serviceInstanceSrc = get-view $svcRef -Server $sourceserver
$serviceInstanceDst = get-view $svcRef -Server $destserver

$authMgrSrc = get-view $serviceInstanceSrc.Content.authorizationManager -
Server $sourceserver
$authMgrDst = get-view $serviceInstanceDst.Content.authorizationManager -
Server $destserver

### create array with roles from the Source vCenter

$listofrolesrc =@()

foreach($role in $authMgrSrc.RoleList){
    $row = "" | Select RoleName, Label, RoleId
    $row.RoleName = $role.Name
    $row.Label = $role.Info.Label
    $row.RoleId = $role.RoleId

    $listofrolesrc += $row
}

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### create array with roles from the Destination vCenter

$listofrolesdst =@()

foreach($role in $authMgrDst.RoleList){
    $row = "" | Select RoleName, Label, RoleId
    $row.RoleName = $role.Name
    $row.Label = $role.Info.Label
    $row.RoleId = $role.RoleId

    $listofrolesdst += $row
}

### let's compare the list of roles retrieved from vcenter $sourceserver
against the one retrieved from $destserver. we compare only the Label of
the roles at this point

$results = Compare-Object ($listofrolessrc | sort-object Label)
($listofrolesdst | sort-object Label) -IncludeEqual -Property Label

### let's see which entry are not present in the destination vice versa and
out putting them.

foreach ( $res in $results) {
    if ($res -notlike $null) {

        if ($res.SideIndicator -cmatch "<=") {

            "The Role : "" + $res.Label + "" is not present in the
destination vCenter -> " + $destserver

        } elseif ($res.SideIndicator -cmatch "=>") {

            "The Role : "" + $res.Label + "" is not present in the source
vCenter -> " + $sourceserver

        }
    }
}

"Finish"

### let's disconnect from both vCenters

Disconnect-VIServer -Server $sourceserver -Confirm:$false
Disconnect-VIServer -Server $destserver -Confirm:$false

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