

Learning Objective 1

- Enumerate following for the dollarcorp domain:
 - Users
 - Computers
 - Domain Administrators
 - Enterprise Administrators
 - Shares

Get-NetUser

```
lastlogon           : 1/1/1601 2:00:00 AM
badpwdcount         : 0
cn                  : Meggi Corrinne
useraccountcontrol  : NORMAL_ACCOUNT
whencreated         : 10/14/2023 9:05:35 PM
primarygroupid      : 513
pwdlastset          : 10/14/2023 11:05:35 PM
usnchanged          : 17810

logoncount          : 0
badpasswordtime     : 1/1/1601 2:00:00 AM
distinguishedname   : CN=Rozina Genni,CN=Users,DC=crtp,DC=local
objectclass         : {top, person, organizationalPerson, user}
userprincipalname   : Rozina.Genni@crtp.local
name                : Rozina Genni
objectsid           : S-1-5-21-701016945-1456686922-2798200677-1452
samaccountname      : rozina.genni
codepage            : 0
samaccounttype      : USER_OBJECT
accountexpires      : NEVER
countrycode         : 0
whenchanged         : 10/14/2023 9:05:36 PM
instancetype        : 4
usncreated          : 17812
objectguid          : 7828a02a-da7f-4570-bca9-f0f7b5d29b9b
sn                  : Genni
lastlogoff          : 1/1/1601 2:00:00 AM
objectcategory      : CN=Person,CN=Schema,CN=Configuration,DC=crtp,DC=local
dscorepropagationdata : {10/14/2023 9:05:48 PM, 1/1/1601 12:00:00 AM}
givenname           : Rozina
memberof            : CN=Office Admin,CN=Users,DC=crtp,DC=local
lastlogon           : 1/1/1601 2:00:00 AM
badpwdcount         : 0
cn                  : Rozina Genni
useraccountcontrol  : NORMAL_ACCOUNT
whencreated         : 10/14/2023 9:05:36 PM
primarygroupid      : 513
pwdlastset          : 10/14/2023 11:05:36 PM
usnchanged          : 17816
```

more important filter

```
Get-NetUser | select cn,description,lastlogon,pwdlastset,badpwdcount
```

```
cn          : krbtgt
description  : Key Distribution Center Service Account
lastlogon    : 1/1/1601 2:00:00 AM
pwdlastset   : 10/14/2023 10:47:00 PM
badpwdcount  : 984

cn          : Susana Lorrie
description  :
lastlogon    : 1/1/1601 2:00:00 AM
pwdlastset   : 10/14/2023 10:54:07 PM
badpwdcount  : 0

cn          : Alvera Jill
description  :
lastlogon    : 1/1/1601 2:00:00 AM
pwdlastset   : 1/1/1601 2:00:00 AM
badpwdcount  : 0

cn          : Jessamine Lily
description  : New user generated password: 02j[^Am
lastlogon    : 1/1/1601 2:00:00 AM
pwdlastset   : 1/1/1601 2:00:00 AM
badpwdcount  : 0

cn          : Koressa Kippy
description  :
lastlogon    : 1/1/1601 2:00:00 AM
pwdlastset   : 10/14/2023 10:54:07 PM
badpwdcount  : 0
```

now I will extract all suspicious users

```
cn          : krbtgt
description  : Key Distribution Center Service Account
lastlogon    : 1/1/1601 2:00:00 AM
pwdlastset   : 10/14/2023 10:47:00 PM
badpwdcount  : 984
-----
cn          : Jessamine Lily
description  : New user generated password: 02j[^Am
lastlogon    : 1/1/1601 2:00:00 AM
pwdlastset   : 1/1/1601 2:00:00 AM
badpwdcount  : 0
-----
cn          : Loy Lanette
description  : New user generated password: I!MWL=S
lastlogon    : 1/1/1601 2:00:00 AM
pwdlastset   : 1/1/1601 2:00:00 AM
badpwdcount  : 0
-----
cn          : Cybil Katerina
description  : New user generated password: 6i5$-s2
lastlogon    : 1/1/1601 2:00:00 AM
pwdlastset   : 1/1/1601 2:00:00 AM
badpwdcount  : 0
-----
cn          : Reyna Ninon
```

```

description : New user generated password: B&wh/^#
lastlogon   : 1/1/1601 2:00:00 AM
pwdlastset  : 1/1/1601 2:00:00 AM
badpwdcount : 0
-----
cn          : Kimberlee Lorna
description : Company default password(Reset ASAP)
lastlogon   : 1/1/1601 2:00:00 AM
pwdlastset  : 1/1/1601 2:00:00 AM
badpwdcount : 0
-----
cn          : Delilah Alyss
description : Company default password(Reset ASAP)
lastlogon   : 1/1/1601 2:00:00 AM
pwdlastset  : 1/1/1601 2:00:00 AM
badpwdcount : 0
-----
cn          : Elenore Brandie
description : Company default password(Reset ASAP)
lastlogon   : 1/1/1601 2:00:00 AM
pwdlastset  : 1/1/1601 2:00:00 AM
badpwdcount : 0
-----
cn          : Lanette Kitty
description : Company default password(Reset ASAP)
lastlogon   : 1/1/1601 2:00:00 AM
pwdlastset  : 1/1/1601 2:00:00 AM
badpwdcount : 0
-----
cn          : Illa Latashia
description : Company default password(Reset ASAP)
lastlogon   : 1/1/1601 2:00:00 AM
pwdlastset  : 1/1/1601 2:00:00 AM
badpwdcount : 0
-----
cn          : Aloysia Debbie
description : New user generated password: m:{jWvvi
lastlogon   : 1/1/1601 2:00:00 AM
pwdlastset  : 1/1/1601 2:00:00 AM
badpwdcount : 0
-----
cn          : Dayle Kelcey
description : Company default password(Reset ASAP)
lastlogon   : 1/1/1601 2:00:00 AM
pwdlastset  : 1/1/1601 2:00:00 AM
badpwdcount : 0
-----
cn          : Cymbre Goldina
description : New user generated password: sDjr$!E
lastlogon   : 1/1/1601 2:00:00 AM
pwdlastset  : 1/1/1601 2:00:00 AM
badpwdcount : 0
-----
cn          : Nona Donetta
description : Company default password(Reset ASAP)
lastlogon   : 1/1/1601 2:00:00 AM
pwdlastset  : 1/1/1601 2:00:00 AM
badpwdcount : 0
-----
cn          : rem01x
description :
lastlogon   : 10/16/2023 5:37:37 AM
pwdlastset  : 10/15/2023 2:45:52 PM
badpwdcount : 0

```

now writing a simple PowerShell script to find the groups that the users member of

```

$a = @("krbtgt","Jessamine Lily","Loy Lanette","Cybil Katerina","Reyna Ninon","Kimberlee Lorna","Delilah Alyss","Elenore Brandie","Lanette
for($i = 0 ; $i -lt $a.Length ;$i++)
{
    [string]::Format("Getting User {0} Groups",$a[$i])
    Get-NetGroup -UserName $a[$i] | select name
    Write-Output "-----"
}

```

```

PS C:\Users\rem01x.cryp\Desktop\tools> $a = @("krbtgt","Jessamine Lily","Loy Lanette","Cybil Katerina","Reyna Ninon","Kimberlee Lorna","Delilah Alyss","Elenore Brandie","Lanette Kitty","Illa Latashia","Aloysia Debbie","Dayle Kelcey","Cymbre Goldina","Nona Donetta","rem01x")
PS C:\Users\rem01x.cryp\Desktop\tools> for($i = 0 ; $i -lt $a.Length ; $i++)
>> {
>>     [string]::Format("Getting User {0} Groups",$a[$i])
>>     Get-NetGroup -UserName $a[$i] | select name
>>     Write-Output "-----"
>> }
Getting User krbtgt Groups

name
----
Denied RODC Password Replication Group
Domain Users
-----
Getting User Jessamine Lily Groups
Domain Users
Sales
-----
Getting User Loy Lanette Groups
Domain Users
Sales
-----
Getting User Cybil Katerina Groups
Domain Users
Sales

```

```

name
----
Denied RODC Password Replication Group
Domain Users
-----
Getting User Jessamine Lily Groups
Domain Users
Sales
-----
Getting User Loy Lanette Groups
Domain Users
Sales
-----
Getting User Cybil Katerina Groups
Domain Users
Sales
-----
Getting User Reyna Ninon Groups
Domain Users
Marketing
-----
Getting User Kimberlee Lorna Groups
Domain Users
Marketing
-----
Getting User Delilah Alyss Groups
Domain Users
Sales
-----
Getting User Elenore Brandie Groups
Domain Users
Sales
-----
Getting User Lanette Kitty Groups
Domain Users
Marketing
-----
Getting User Illa Latashia Groups
Accounting
Domain Users
-----
Getting User Aloysia Debbie Groups
Domain Users
Marketing
-----
Getting User Dayle Kelcey Groups
Domain Users
Marketing
-----
Getting User Cymbre Goldina Groups
Domain Users
Sales
-----
Getting User Nona Donetta Groups
Domain Users
Marketing

```

```
-----
Getting User rem01x Groups
Domain Users
-----
```

okay great but those users are part of domain users and other partitions in the domain **no admins group found**

```
Get-NetComputer
```

```
PS C:\Users\rem01x.crt\\Desktop\tools> Get-NetComputer

pwdlastset           : 10/14/2023 10:47:17 PM
logoncount            : 27
serverreferencebl     : CN=WIN-Q4788GPE9L7,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Co
                        =local
badpasswordtime       : 1/1/1601 2:00:00 AM
distinguishedname     : CN=WIN-Q4788GPE9L7,OU=Domain Controllers,DC=crt\p,DC=local
objectclass           : {top, person, organizationalPerson, user...}
lastlogontimestamp    : 10/14/2023 10:47:38 PM
name                  : WIN-Q4788GPE9L7
objectsid             : S-1-5-21-701016945-1456686922-2798200677-1000
samaccountname        : WIN-Q4788GPE9L7$
localpolicyflags      : 0
codepage              : 0
samaccounttype        : MACHINE_ACCOUNT
whenchanged           : 10/14/2023 9:00:35 PM
accountexpires        : NEVER
countrycode           : 0
operatingsystem       : Windows Server 2019 Standard Evaluation
instancetype          : 4
msdfs-computerreferencebl : CN=WIN-Q4788GPE9L7,CN=Topology,CN=Domain System
                        Volume,CN=DFSR-GlobalSettings,CN=System,DC=crt\p,DC=local
objectguid            : fd11ef97-abba-4136-9f90-9f6adb95ac78
operatingsystemversion : 10.0 (17763)
lastlogoff            : 1/1/1601 2:00:00 AM
objectcategory        : CN=Computer,CN=Schema,CN=Configuration,DC=crt\p,DC=local
dscorepropagationdata : {10/14/2023 8:47:00 PM, 1/1/1601 12:00:01 AM}
serviceprincipalname   : {Dfsr-12f9a27c-bf97-4787-9364-d31b6c55eb04/WIN-Q4788GPE9L7.crt\p.local,
                        ldap/WIN-Q4788GPE9L7.crt\p.local/ForestDnsZones.crt\p.local,
```

more important filters

```
Get-NetComputer | select name,operatingsystem,pwdlastset,badpwdcount,lastlogon,iscriticalsystemobject
```

```
PS C:\Users\rem01x.crt\\Desktop\tools> Get-NetComputer | select name,operatingsystem,
alsystemobject

name           : WIN-Q4788GPE9L7
operatingsystem : Windows Server 2019 Standard Evaluation
pwdlastset     : 10/14/2023 10:47:17 PM
badpwdcount    : 0
lastlogon      : 10/16/2023 5:42:00 AM
iscriticalsystemobject : True

name           : DESKTOP-V0AN63P
operatingsystem : Windows 10 Pro N
pwdlastset     : 10/15/2023 2:53:18 PM
badpwdcount    : 0
lastlogon      : 10/16/2023 7:17:43 AM
iscriticalsystemobject : False
```

as we see the win computer is marked as critical object so let's ping it to see if it's live

```
Get-NetComputer -Ping | Where-Object name -like 'WIN-Q4788GPE9L7'
```

```
PS C:\Users\rem01x.crtp\Desktop\tools> Get-NetComputer -Ping |Where-Object name -like 'WIN-Q4788GPE9L7'

pwdlastset           : 10/14/2023 10:47:17 PM
logoncount           : 27
serverreferencebl    : CN=WIN-Q4788GPE9L7,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration=local
badpasswordtime      : 1/1/1601 2:00:00 AM
distinguishedname    : CN=WIN-Q4788GPE9L7,OU=Domain Controllers,DC=crtp,DC=local
objectclass          : {top, person, organizationalPerson, user...}
lastlogontimestamp   : 10/14/2023 10:47:38 PM
name                 : WIN-Q4788GPE9L7
objectsid            : S-1-5-21-701016945-1456686922-2798200677-1000
samaccountname       : WIN-Q4788GPE9L7$
localpolicyflags     : 0
codepage             : 0
samaccounttype       : MACHINE_ACCOUNT
whenchanged          : 10/14/2023 9:00:35 PM
accountexpires       : NEVER
countrycode          : 0
operatingsystem      : Windows Server 2019 Standard Evaluation
instancetype          : 4
msdfs-computerreferencebl : CN=WIN-Q4788GPE9L7,CN=Topology,CN=Domain System Volume,CN=DFSR-GlobalSettings,CN=System,DC=crtp,DC=local
objectguid           : fd11ef97-abba-4136-9f90-9f6adb95ac78
operatingsystemversion : 10.0 (17763)
lastlogoff           : 1/1/1601 2:00:00 AM
objectcategory       : CN=Computer,CN=Schema,CN=Configuration,DC=crtp,DC=local
dscorepropagationdata : {10/14/2023 8:47:00 PM, 1/1/1601 12:00:01 AM}
serviceprincipalname : {Dfsr-12F9A27C-BF97-4787-9364-D31B6C55EB04/WIN-Q4788GPE9L7.crtp.local,
```

as we see this computer is live

```
Get-NetGroupMember 'Domain Admins'
```

```
PS C:\Users\rem01x.crtp\Desktop\tools> Get-NetGroupMember 'Domain Admins'

GroupDomain           : crtp.local
GroupName             : Domain Admins
GroupDistinguishedName : CN=Domain Admins,CN=Users,DC=crtp,DC=local
MemberDomain          : crtp.local
MemberName            : IT Admins
MemberDistinguishedName : CN=IT Admins,CN=Users,DC=crtp,DC=local
MemberObjectClass     : group
MemberSID             : S-1-5-21-701016945-1456686922-2798200677-1204

GroupDomain           : crtp.local
GroupName             : Domain Admins
GroupDistinguishedName : CN=Domain Admins,CN=Users,DC=crtp,DC=local
MemberDomain          : crtp.local
MemberName            : Administrator
MemberDistinguishedName : CN=Administrator,CN=Users,DC=crtp,DC=local
MemberObjectClass     : user
MemberSID             : S-1-5-21-701016945-1456686922-2798200677-500
```

please notice that: **IT Admins** is a group that is apart of **domain admins** group

okay let's add the recurse option and filters to the output

```
Get-NetGroupMember 'Domain Admins' -Recurse |select membername,groupname,memberobjectclass
```

```
PS C:\Users\rem01x.crtip\Desktop\tools> Get-NetGroupMember 'Domain Admins' -Recurse | select membername,
ass

MemberName      GroupName      MemberObjectClass
-----
IT Admins       Domain Admins  group
luise.lenna     IT Admins     user
lilas.kip       IT Admins     user
marlee.charlot  IT Admins     user
darleen.noreen  IT Admins     user
prissie.alice   IT Admins     user
gratia.jillayne IT Admins     user
aida.gratiana   IT Admins     user
riki.lynnell    IT Admins     user
shelba.casandra IT Admins     user
sabra.franky    IT Admins     user
kalie.giana     IT Admins     user
paloma.raeann   IT Admins     user
dorena.athena   IT Admins     user
christyna.dorothy IT Admins     user
kinnie.fiann    IT Admins     user
althea.devan    IT Admins     user
rosy.libbey     IT Admins     user
rowena.jasmine  IT Admins     user
Administrator   Domain Admins  user
```

as we see the IT Admins group is a part of domain admins and all the users in this group also are domain admins

High Value Users

MemberName	GroupName	MemberObjectClass
IT Admins	Domain Admins	group
luise.lenna	IT Admins	user
lilas.kip	IT Admins	user
marlee.charlot	IT Admins	user
darleen.noreen	IT Admins	user
prissie.alice	IT Admins	user
gratia.jillayne	IT Admins	user
aida.gratiana	IT Admins	user
riki.lynnell	IT Admins	user
shelba.casandra	IT Admins	user
sabra.franky	IT Admins	user
kalie.giana	IT Admins	user
paloma.raeann	IT Admins	user
dorena.athena	IT Admins	user
christyna.dorothy	IT Admins	user
kinnie.fiann	IT Admins	user
althea.devan	IT Admins	user
rosy.libbey	IT Admins	user
rowena.jasmine	IT Admins	user
Administrator	Domain Admins	user

now let's get the groups that those users are member of

```
$a = @("luise.lenna", "lilas.kip", "marlee.charlot", "darleen.noreen", "prissie.alice", "gratia.jillayne", "aida.gratiana", "riki.lynnell", "shelba.casandra")
for($i = 0 ; $i -lt $a.Length ; $i++)
{
    [string]::Format("Getting User {0} Groups", $a[$i])
    Get-NetGroup -UserName $a[$i] | select name
    Write-Output "-----"
}
```

```
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User lilas.kip Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
```

```

IT Admins
-----
Getting User marlee.charlot Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User darleen.noreen Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User prissie.alice Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User gratia.jillayne Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User aida.gratiana Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User riki.lynnell Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User shelba.cassandra Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User sabra.franky Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User kalie.giana Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User paloma.raeann Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User dorena.athena Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User christyna.dorothy Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User kinnie.fiann Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users

```



```

IT Admins
-----
Getting User althea.devan Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User rosy.libbey Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User rowena.jasmine Groups
Denied RODC Password Replication Group
Domain Admins
Domain Users
IT Admins
-----
Getting User Administrator Groups
Denied RODC Password Replication Group
Enterprise Admins
Schema Admins
Domain Admins
Domain Users
Group Policy Creator Owners
-----

```

Get-NetGroup 'Enterprise Admins' -Domain crtp.local #we used the -Domain because the enterprise admins only found in the root server or the

```

PS C:\Users\rem01x.crtp\Desktop\tools> Get-NetGroup 'Enterprise Admins'

grouptype           : UNIVERSAL_SCOPE, SECURITY
admincount           : 1
iscriticalsystemobject : True
samaccounttype       : GROUP_OBJECT
samaccountname       : Enterprise Admins
whenchanged          : 10/15/2023 12:53:50 PM
objectsid            : S-1-5-21-701016945-1456686922-2798200677-519
objectclass           : {top, group}
cn                   : Enterprise Admins
usnchanged            : 24689
dscorepropagationdata : {10/15/2023 12:53:50 PM, 10/14/2023 9:05:48 PM, 10/14/2023 8:54:26 PM, 10/14/2023 8:47:00 PM...}
memberof             : {CN=Denied RODC Password Replication Group,CN=Users,DC=crtp,DC=local,
                        CN=Administrators,CN=Builtin,DC=crtp,DC=local}
description           : Designated administrators of the enterprise
distinguishedname     : CN=Enterprise Admins,CN=Users,DC=crtp,DC=local
name                  : Enterprise Admins
member                : CN=Administrator,CN=Users,DC=crtp,DC=local
usncreated            : 12339
whencreated           : 10/14/2023 8:47:00 PM
instancetype          : 4
objectguid            : 28669ac2-31f5-46cf-91e7-b73243fb6556
objectcategory        : CN=Group,CN=Schema,CN=Configuration,DC=crtp,DC=local

```

Get-NetGroupMember 'Enterprise Admins' -Domain crtp.local #we used the -Domain because the enterprise admins only found in the root server or the

```

PS C:\Users\rem01x.crtp\Desktop\tools> Get-NetGroupMember 'Enterprise Admins'

GroupDomain           : crtp.local
GroupName              : Enterprise Admins
GroupDistinguishedName : CN=Enterprise Admins,CN=Users,DC=crtp,DC=local
MemberDomain          : crtp.local
MemberName             : Administrator
MemberDistinguishedName : CN=Administrator,CN=Users,DC=crtp,DC=local
MemberObjectClass      : user
MemberSID              : S-1-5-21-701016945-1456686922-2798200677-500

```

as we see we only have one enterprise admin which is the default account

Invoke-ShareFinder -Verbose

```
PS C:\Users\rem01x.crtf\Desktop\tools> Invoke-ShareFinder -Verbose
VERBOSE: [Find-DomainShare] Querying computers in the domain
VERBOSE: [Get-DomainSearcher] search base: LDAP://WIN-Q4788GPE9L7.CRTP.LOCAL/DC=CRTP,DC=LOCAL
VERBOSE: [Get-DomainComputer] Get-DomainComputer filter string: (&(samAccountType=805306369))
VERBOSE: [Find-DomainShare] TargetComputers length: 2
VERBOSE: [Find-DomainShare] Using threading with threads: 20
VERBOSE: [New-ThreadedFunction] Total number of hosts: 2
VERBOSE: [New-ThreadedFunction] Total number of threads/partitions: 2
VERBOSE: [New-ThreadedFunction] Threads executing
VERBOSE: [New-ThreadedFunction] Waiting 100 seconds for final cleanup...

VERBOSE: [New-ThreadedFunction] all threads completed
Name                Type Remark                ComputerName
----                -
ADMIN$              2147483648 Remote Admin            WIN-Q4788GPE9L7.crtf.local
C$                  2147483648 Default share           WIN-Q4788GPE9L7.crtf.local
Common              0
IPC$                 2147483651 Remote IPC              WIN-Q4788GPE9L7.crtf.local
NETLOGON            0 Logon server share     WIN-Q4788GPE9L7.crtf.local
SYSVOL              0 Logon server share     WIN-Q4788GPE9L7.crtf.local
ADMIN$              2147483648 Remote Admin            DESKTOP-V0AN63P.crtf.local
C$                  2147483648 Default share           DESKTOP-V0AN63P.crtf.local
IPC$                 2147483651 Remote IPC              DESKTOP-V0AN63P.crtf.local
```