

```

1  #!/bin/bash
2  #####
3  # Name:  Generate ADS Feed Files for IM Solution Provisioning/Connector Tiers
4  #
5  # Goal:  Validate the new parallel processes from the IM Connector Tier to Active
6  #        Directory with MS Exchange
7  #
8  # Generate ADS User LDIF file(s) for use with unit (dxmodify) and performance testing
9  #        (dxsoak) to:
10 # - {Note: dxsoak will only work with non-TLS ports}
11 #
12 # IM JCS (20410)  "dc=etasa"    {Ensure MS Windows Firewall allows this port to be
13 #                exposed}
14 # IM CCS (20402)  "dc=etasa"    {This port is localhost only, may open to network
15 #                traffic via registry update}
16 # IMPS (20389)   "dc=eta"
17 #
18 # Monitor:
19 #
20 # The IMPS etatrans*.log {exclude searches}
21 # The JCS daily log
22 # The JCS ADS log {Enable the ADS Endpoint TXT logging for all checkboxes}
23 # The CCS ADS log {Enable the ADS Endpoint TXT logging for all checkboxes}
24 #
25 # Execute per the examples provided during run of this file
26 #
27 # ANA 05/2021
28 #####
29 # Unique Variables for an ADS Domain
30 NAMESPACE=exchange2016
31 ADSDOMAIN=exchange.lab
32 DCDOMAIN="DC=exchange,DC=lab"
33 OU=People
34
35 #####
36
37
38 MAX=100
39 start=00001
40 counter=$start
41 echo "#####"
42 echo "#####"
43 START=`/bin/date --utc +%Y%m%d%H%M%S,%3N.OZ`
44 echo `/bin/date --utc +%Y%m%d%H%M%S,%3N.OZ` = Current OS UTC time stamp"
45 echo "#####"
46 FILE1=ads_user_with_exchange_dc_etasa.ldif
47 FILE2=ads_user_with_exchange_dc_eta.ldif
48 echo "" > $FILE1
49 while [ $counter -le $MAX ]
50 do
51     n=$((10000+counter)); n=${n#1}
52     tz=`/bin/date --utc +%Y%m%d%H%M%S,%3N.OZ`
53     echo "Counter with leading zeros = $n at time: $tz"
54
55
56 cat << EOF >> $FILE1
57 dn: eTADSAccountName=firstname$n
58 aalastname$n,eTADSOrgUnitName=$OU,eTADSDirectoryName=$NAMESPACE,eTNamespaceName=ActiveDi
59 rrectory,dc=im,dc=etasa
60 changetype: add
61 objectClass: eTADSAccount
62 eTADSobjectClass: user

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61 eTADSAccountName:  firstname$N aaalastname$N
62 eTADSgivenName:  firstname$N
63 eTADSsn:  aaalastname$N
64 eTADSdisplayName:  firstname$N aaalastname$N
65 eTADSuserPrincipalName:  aaatestuser$N@$ADSDOMAIN
66 eTADSsAMAccountName:  aaatestuser$N
67 eTPassword:  Password01
68 eTADSpwdLastSet:  -1
69 eTSuspended:  0
70 eTADSuserAccountControl:  0000000512
71 eTADSdescription:  description $tz
72 eTADSphysicalDeliveryOfficeName:  office
73 eTADStelephoneNumber:  111-222-3333
74 eTADSmail:  aaatestuser$N@$ADSDOMAIN
75 eTADSwwwHomePage:  web.page.lab
76 eTADSotherTelephone:  111-222-3333
77 eTADSurl:  other.web.page.lab
78 eTADSstreetAddress:  street address line01
79 eTADSpostOfficeBox:  pobox 111
80 eTADS1:  city
81 eTADSst:  state
82 eTADSpostalCode:  11111
83 eTADSco:  UNITED STATES
84 eTADSc:  US
85 eTADScountryCode:  840
86 eTADSscriptPath:  loginscript.cmd
87 eTADSprofilePath:  \profile\path\here
88 eTADShomePhone:  111-222-3333
89 eTADSpager:  111-222-3333
90 eTADSmobile:  111-222-3333
91 eTADSfacsimileTelephoneNumber:  111-222-3333
92 eTADSipPhone:  111-222-3333
93 eTADSinfo:  Notes Here
94 eTADSotherHomePhone:  111-222-3333
95 eTADSotherPager:  111-222-3333
96 eTADSotherMobile:  111-222-3333
97 eTADSotherFacsimileTelephoneNumber:  111-222-3333
98 eTADSotherIpPhone:  111-222-3333
99 eTADStitle:  title
100 eTADSdepartment:  department
101 eTADScompany:  company
102 eTADSmanager:  CN=manager_fn manager_ln,OU=$OU,$DCDOMAIN
103 eTADSmemberOf:  CN=Backup Operators,CN=Builtin,$DCDOMAIN
104 eTADSlyncSIPAddressOption:  0000000000
105 eTADSdisplayNamePrintable:  aaatestuser$N
106 eTADSmailNickname:  aaatestuser$N
107 eTADShomeMDB:  (Automatic Mailbox Distribution)
108 eTADShomeMTA:  CN=DC001,CN=Servers,CN=Exchange Administrative Group
(FYDIBOHF23SPDLT),CN=Administrative Groups,CN=First Organization,CN=Microsoft
Exchange,CN=Services,CN=Configuration,$DCDOMAIN
109 eTAccountStatus:  A
110 eTADSmsExchRecipientTypeDetails:  0000000001
111 eTADSmdbUseDefaults:  TRUE
112 eTADSinitials:  A
113 eTADSaccountExpires:  9223372036854775807
114
115 EOF
116 counter=$(( $counter + 00001 ))
117 done
118
119
120 # Create the delete ADS Process
121 start=00001
122 counter=$start
123 while [ $counter -le $MAX ]
124 do
125     n=$((10000+counter)); n=${n#1}
126     tz=`/bin/date --utc +%Y%m%d%H%M%S,3%N.OZ`
127     echo "Counter with leading zeros = $n    at time:  $tz"

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128
129
130 cat << EOF >> $FILE1
131 dn: eTADSAccountName=firstname$n
aaalastname$n,eTADSOrgUnitName=$OU,eTADSDirectoryName=$NAMESPACE,eTNamespaceName=ActiveDi
rectory,dc=im,dc=etasa
changetype: delete
132
133
134 EOF
135 counter=$(( $counter + 00001 ))
136 done
137
138 echo ""
139 echo "##### ADS USER OBJECT STATS
#####"
140 echo "Number of add objects: `grep "changetype: add" $FILE1 | wc -l`"
141 echo "Number of delete objects: `grep "changetype: delete" $FILE1 | wc -l`"
142 rm -rf $FILE2
143 cp -r -p $FILE1 $FILE2
144 sed -i 's|,dc=im,dc=etasa|,dc=im,dc=eta|g' $FILE2
145 ls -lart $FILE1
146 ls -lart $FILE2
147
148 echo ""
149 echo "##### SET ADS MAX CONNECTIONS IN POOL SIZE
#####"
150 IMPS_HOST=192.168.242.135
151 IMPS_PORT=20389
152 IMPS_USER='eTGlobalUserName=etaadmin,eTGlobalUserContainerName=Global
Users,eTNamespaceName=CommonObjects,dc=im,dc=eta'
153 IMPS_PWD="Password01"
154 LDAPTLS_REQCERT=never dxmodify -H ldap://$IMPS_HOST:$IMPS_PORT -c -x -D "$IMPS_USER" -w
"$IMPS_PWD" << EOF
155 dn: eTADSDirectoryName=$NAMESPACE,eTNamespaceName=ActiveDirectory,dc=im,dc=eta
changetype: modify
156 eTADSMaxConnectionsInPool: 200
157 EOF
158 LDAPTLS_REQCERT=never dxsearch -LLL -H ldap://$IMPS_HOST:$IMPS_PORT -x -D "$IMPS_USER"
-w "$IMPS_PWD" -b
"eTADSDirectoryName=$NAMESPACE,eTNamespaceName=ActiveDirectory,dc=im,dc=eta" -s base
eTADSMaxConnectionsInPool | perl -p00e 's/\r?\n //g'
160
161 echo ""
162 echo "##### CCS UNIT & PERF TEST
#####"
163 CCS_HOST=192.168.242.80
164 CCS_PORT=20402
165 CCS_USER="cn=root,dc=etasa"
166 CCS_PWD="Password01"
167 echo "Execute this command to the CCS Service to test single thread with dxmodify or
ldapmodify"
168 echo "dxmodify -H ldap://$CCS_HOST:$CCS_PORT -c -x -D $CCS_USER -w $CCS_PWD -f $FILE1 "
169 echo "Execute this command to the CCS Service to test 100 threads with dxsoak "
170 echo "./dxsoak -c -l 60 -t 100 -h $CCS_HOST:$CCS_PORT -D $CCS_USER -w $CCS_PWD -f
$FILE1 "
171
172 echo ""
173 echo "##### JCS UNIT & PERF TEST
#####"
174 CCS_HOST=192.168.242.80
175 CCS_PORT=20410
176 CCS_USER="cn=root,dc=etasa"
177 CCS_PWD="Password01"
178 echo "Execute this command to the JCS Service to test single thread with dxmodify or
ldapmodify "
179 echo "dxmodify -H ldap://$CCS_HOST:$CCS_PORT -c -x -D $CCS_USER -w $CCS_PWD -f $FILE1 "
180 echo "Execute this command to the JCS Service to test 100 threads with dxsoak "
181 echo "./dxsoak -c -l 60 -t 100 -h $CCS_HOST:$CCS_PORT -D $CCS_USER -w $CCS_PWD -f
$FILE1 "

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182
183
184 echo ""
185 echo "##### IMPS UNIT & PERF TEST
#####"
186 IMPS_HOST=192.168.242.135
187 IMPS_PORT=20389
188 IMPS_USER='eTGlobalUserName=etaadmin,eTGlobalUserContainerName=Global
Users,eTNamespaceName=CommonObjects,dc=im,dc=eta'
189 IMPS_PWD="Password01"
190 echo "Execute this command to the IMPS Service to test single thread with dxmodify or
ldapmodify "
191 echo "dxmodify -H ldap://$IMPS_HOST:$IMPS_PORT -c -x -D \"\$IMPS_USER\" -w $IMPS_PWD -f
$FILE2 "
192 echo "Execute this command to the IMPS Service to test 100 threads with dxsoak "
193 echo "./dxsoak -c -l 60 -t 100 -h $IMPS_HOST:$IMPS_PORT -D \"\$IMPS_USER\" -w $IMPS_PWD
-f $FILE2 "
194
195
196
197
```