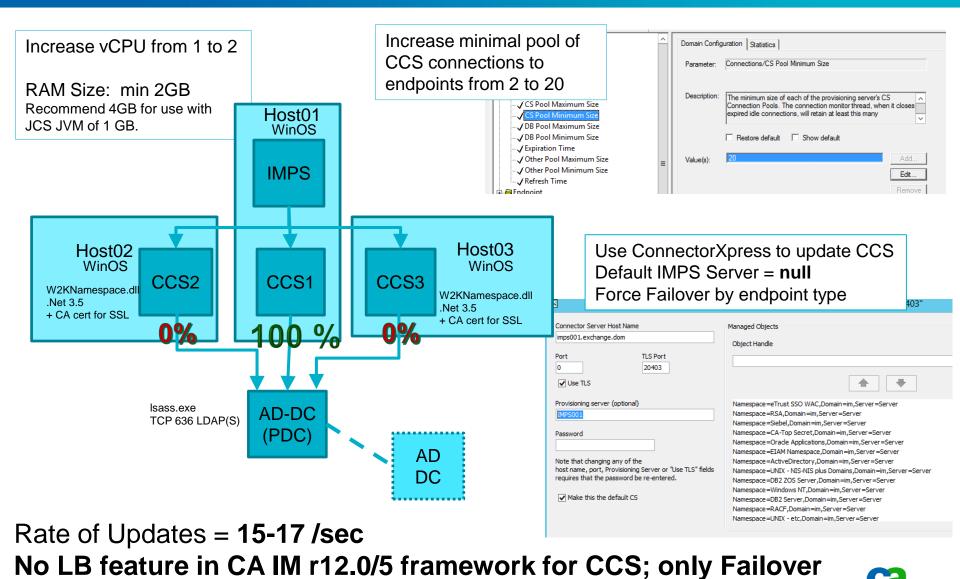
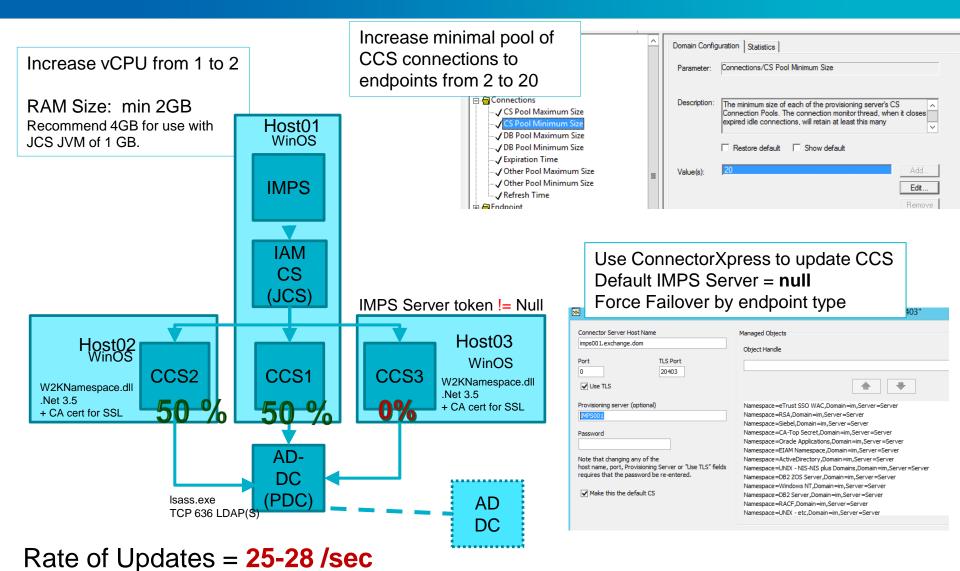


## Increase IMPS to Endpoint Performance with "legacy" Failover CCS Service (CA IM r12.0/5 framework)



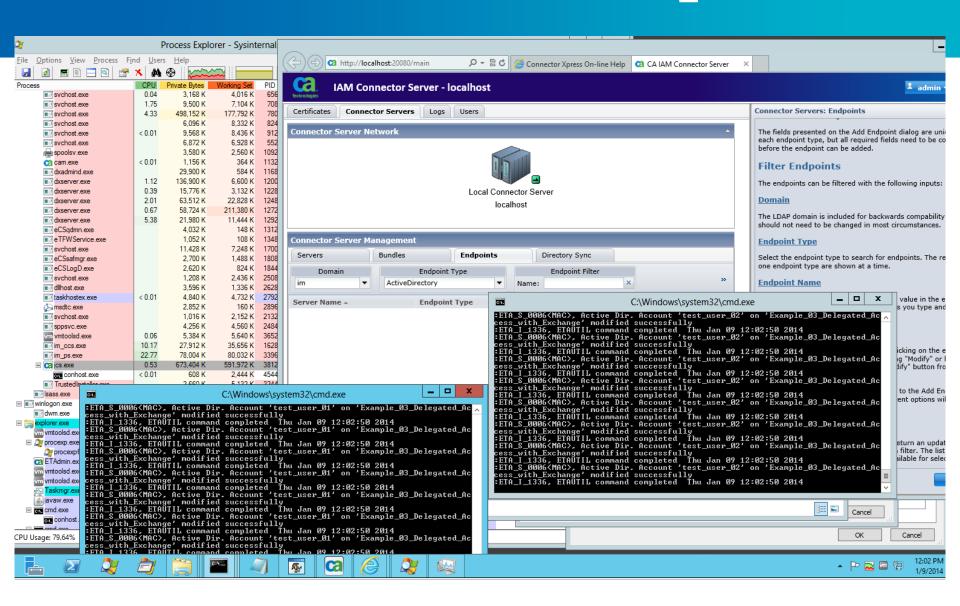
technologies

# Increase IMPS to Endpoint Performance with IAM CS (JCS) as a router (CA IM r12.6 framework)

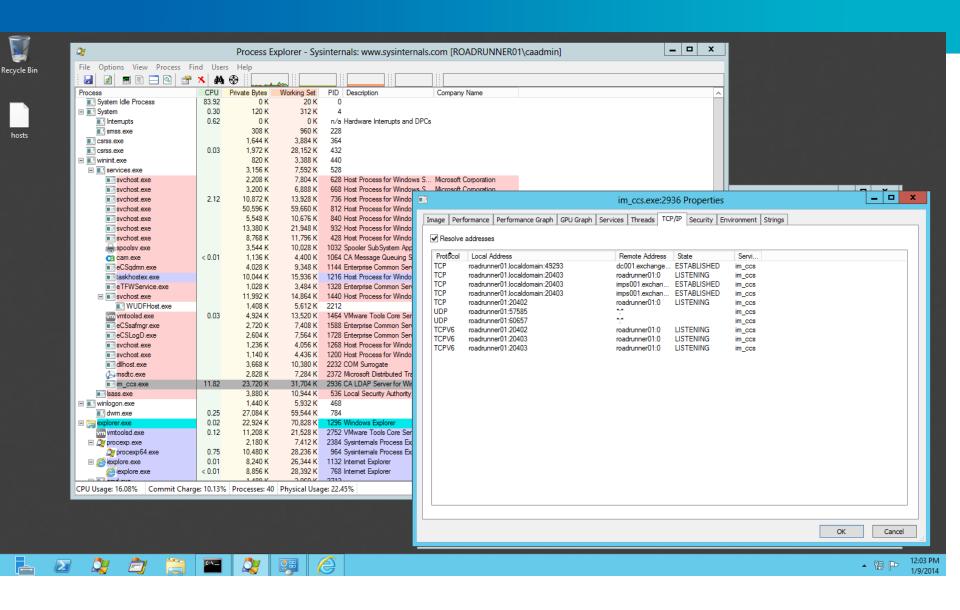


with two (2) CCS + IAM CS => LoadBalancing in IM r12.6 framework

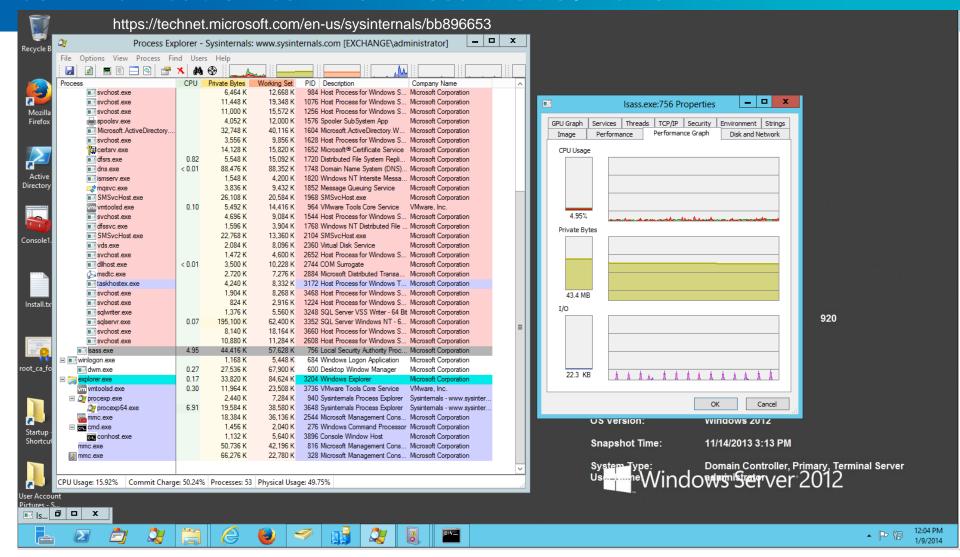
## CA IMPS server with IAMCS service + im\_ccs service



## Server 2 with local im\_ccs service managed by remote IAMCS



## Active Directory server: Isass service manages the LDAP(s) communication to ADS Less that 5% CPU hit



# Script to emulate PX framework; and determine maximum rate from IMPS and CCS to Active Directory for group modifications to AD accounts.

@echo on

"C:\Program Files (x86)\CA\Identity Manager\Provisioning Server\bin\etautil.exe" -o -d im -u etaadmin -p Password01 -f test03.txt

pause

### Created input file with these two (2) lines copied 10K times

#### update

'eTADSOrgUnitName=Office\_002,eTADSOrgUnitName=CompanyABC\_Users\_OU,eTADSDirectoryName=Example\_03\_Delegated\_Access\_with\_Exchange,eTNa mespaceName=ActiveDirectory,dc=im' eTADSAccount eTADSAccountName=test\_user\_01 to -eTADSmemberOf='CN=Help Desk,OU=Microsoft Exchange Security Groups,DC=exchange,DC=dom'; update

'eTADSOrgUnitName=Office\_002,eTADSOrgUnitName=CompanyABC\_Users\_OU,eTADSDirectoryName=Example\_03\_Delegated\_Access\_with\_Exchange,eTNa mespaceName=ActiveDirectory,dc=im' eTADSAccount eTADSAccountName=test\_user\_01 to eTADSmemberOf='CN=Help Desk,OU=Microsoft Exchange Security Groups,DC=exchange,DC=dom'; update

Default setup: No changes to IMPS server: log level =3

IMPS 2GB RAM: 99% CPU utilization on 1 CPU (i7) for etautil CLI until file is read; then 5% execution for etautil + 5% for console CLI window.

NOTE: less than 1% CPU utilization for for im\_ccs, im\_ps, im\_jcs, dxserver services during loading; then 25% for im\_ccs and im\_ps during execution.

AD 2GB RAM, <5% CPU utilization on 1 CPU (i7) for Isass process (which is used for LDAP(S) communication on AD)

Rate: max of 15-17 mods / second for Add AD group / Remove AD group from same account via etautil via CCS connector strings; based on number of entries in the IMPS etatrans logs for successful update/delete of the memberOf attribute.



# Improve Performance for MS Exchange Powershell API by increase the default throttle limit from 18 to 100

1. Create a throttle limit to be used exclusively by the CA IdentityMinder service account. Set the limit to 100 concurrent connections. For example:

### New-ThrottlingPolicy MaxPowershell -PowerShellMaxConcurrency 100

2. Apply the new policy to the CA IdentityMinder service account on the Exchange server. For example:

Set-Mailbox "User Name" -ThrottlingPolicy MaxPowershell where "User Name" = service account to manage AD & Exchange accounts for CA IM

Justification: Scenario: 2000 creations from IME BLC.

Exchange able to create user mailbox in 20 seconds. Timeouts bumped to 600 seconds

18 session pool: 2000 \* 20 / 18 = 40,000 seconds / 18 = 2222 seconds = < 40 minutes (Expect 5-10% failure due to timeout over 600 seconds)

100 session pool: 2000 \* 20 / 100 = 40,000 seconds / 100 = 400 seconds = < 5 minutes [Expect no failures]

- 3. Increase the default timeouts of the CA IdentityMinder Exchange Agent to 600 seconds.
- a. On the Exchange server, increase the agent timeout as follows:

HKEY\_LOCAL\_MACHINE\SOFTWARE\ComputerAssociates\Identity Manager\Ex2k7AgentTimeout = 600 (seconds)

b. On Provisioning servers (ALL of them), set the environmental variables as follows:

ADS\_E2K\_SEND\_DC = 1 & ADS\_CONFIRM\_MAILBOX = 600 (seconds)

4. Restart the im ccs service.

Ref: <a href="http://cookbooks.ca.com/cagovernanceminder/2014/02/14/solution-for-microsoft-exchange-performance-problems/">http://cookbooks.ca.com/cagovernanceminder/2014/02/14/solution-for-microsoft-exchange-performance-problems/</a>

