**Example 1**

The PNODE, CD.H235CD, is a CDZ instances running on one of our QA LPARs. The SNODE, POQCMOD235, is an internal Morgan Stanley CDU QA server. I’ve excerpted the relevant portions of the CDZ log. It shows a process starting at 18.32.54 and completing successfully. At 19.01.42 a session is established but there is an SSL handshake failure. The process number is 23,039. At 19.08.27 this process starts again and completes successfully.

00.00.00 STC10198 ---- THURSDAY, 12 APR 2018 ----

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18.32.53 STC10198 SVTM055I SESSION (001) ESTABLISHED WITH SNODE=POQCMOD235

18.32.54 STC10198 SVTM056I SESSION (001) TERMINATED WITH SNODE=PMCQA1

18.32.54 STC10198 ICH70001I DWRBTCH LAST ACCESS AT 18:32:52 ON THURSDAY, APRIL 12, 2018

18.32.54 STC10198 SVTM036I PROCESS STARTED PFXTD220( 23,024) SNODE=POQCMOD235

18.32.54 STC10198 IGD103I SMS ALLOCATED TO DDNAME NDM00146

18.32.54 STC10198 IGD104I PFXT.NVS.PFXTD220.TRADE.EXPTN.XLS.G1534V00 RETAINED, DDNAME=NDM00146

18.32.54 STC10198 SVTM052I STEP01 COPY PFXTD220( 23,024) SNODE=POQCMOD235 806

806 SVTM052I FROM PFXT.NVS.PFXTD220.TRADE.EXPTN.XLS.G1534V00

806 SVTM052I TO /arsacif4/HSYS.TFXTD...20.2018102.183252.ARD

806 SVTM052I COMPLETED 00000000/SCPA000I

18.32.55 STC10198 SVTM052I RUN TASK PFXTD220( 23,024) SNODE=POQCMOD235 815

815 SVTM052I COMPLETED 00000000/XSMG402I

18.32.55 STC10198 SVTM037I PROCESS ENDED PFXTD220( 23,024) SNODE=POQCMOD235

18.32.55 STC10198 SVTM056I SESSION (001) TERMINATED WITH SNODE=POQCMOD235

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19.01.00 STC10198 SVTM056I SESSION (002) TERMINATED WITH SNODE=NY02XNLB01

19.01.08 STC10198 ICH70001I PRDVIK LAST ACCESS AT 19:00:57 ON THURSDAY, APRIL 12, 2018

19.01.42 STC10198 CSPA202E SSL handshake failure, reason=Socket closed by remote partner

19.01.42 STC10198 SVTM055I SESSION (001) ESTABLISHED WITH SNODE=POQCMOD235

19.01.42 STC10198 CSPA202E SSL handshake failure, reason=Socket closed by remote partner

19.01.42 STC10198 SVTM600I Process Ended ODVIK ( 23,039) SNODE=POQCMOD235 970

970 SVTM600I Msg=CSPA202E 420 Socket closed by remote partner

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19.08.24 STC10198 SVTM055I SESSION (001) ESTABLISHED WITH SNODE=POQCMOD235

19.08.25 STC10198 ICH70001I PRDFIS LAST ACCESS AT 19:08:23 ON THURSDAY, APRIL 12, 2018

19.08.26 STC10198 SVTM055I SESSION (002) ESTABLISHED WITH SNODE=POQCMOD235

19.08.26 STC10198 ICH70001I PRDVIK LAST ACCESS AT 19:01:08 ON THURSDAY, APRIL 12, 2018

19.08.27 STC10198 SVTM036I PROCESS STARTED ODVIK ( 23,039) SNODE=POQCMOD235

19.08.27 STC10198 SVTM036I PROCESS STARTED OD001 ( 23,042) SNODE=POQCMOD235

19.08.27 STC10198 IGD103I SMS ALLOCATED TO DDNAME NDM00042

19.08.27 STC10198 IGD103I SMS ALLOCATED TO DDNAME NDM00731

19.08.27 STC10198 IGD104I PVIK.NRPT.PVIKDUI9.MARGINS.FEED RETAINED, DDNAME=NDM00042

19.08.27 STC10198 SVTM052I STEP01 COPY ODVIK ( 23,039) SNODE=POQCMOD235 075

075 SVTM052I FROM PVIK.NRPT.PVIKDUI9.MARGINS.FEED

075 SVTM052I TO /arsacif4/HSYS.PVIKD...I9.2018102.190108.ARD

075 SVTM052I COMPLETED 00000000/SCPA000I

19.08.28 STC10198 IGD104I PFIS.NVS.PFISDFD3.FISFDB04.XLSRPT.G0175V00 RETAINED, DDNAME=NDM00731

19.08.28 STC10198 SVTM052I STEP01 COPY OD001 ( 23,042) SNODE=POQCMOD235 092

092 SVTM052I FROM PFIS.NVS.PFISDFD3.FISFDB04.XLSRPT.G0175V00

092 SVTM052I TO /arsacif4/HSYS.PFISD...D3.2018102.190823.ARD

092 SVTM052I COMPLETED 00000000/SCPA000I

19.08.28 STC10198 SVTM052I RUN TASK ODVIK ( 23,039) SNODE=POQCMOD235 118

118 SVTM052I COMPLETED 00000000/XSMG402I

19.08.28 STC10198 SVTM037I PROCESS ENDED ODVIK ( 23,039) SNODE=POQCMOD235

19.08.29 STC10198 SVTM052I RUN TASK OD001 ( 23,042) SNODE=POQCMOD235 126

126 SVTM052I COMPLETED 00000000/XSMG402I

19.08.29 STC10198 SVTM037I PROCESS ENDED OD001 ( 23,042) SNODE=POQCMOD235

19.08.29 STC10198 SVTM056I SESSION (002) TERMINATED WITH SNODE=POQCMOD235

19.08.29 STC10198 SVTM056I SESSION (001) TERMINATED WITH SNODE=POQCMOD235

19.08.39 STC10198 SVTM055I SESSION (000) ESTABLISHED WITH PNODE=PMCQA1

Here is the output from the select statistics display command for the process 23,039:

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CD.H235CD SELECT STATISTICS DATE : 04.12.2018

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Function => PROCESS SUBMIT Step Start Time => 19:01:08

Process Name => ODVIK Step End Time => 19:01:08

Process Num => 23,039 Comp Code => 00000000

UserID => PRDVIK Comp Msg => SSPA001I

Job Name => JVIKDUI9 Job ID => JOB10079

SnodeID => Yes

Primary Node => CD.H235CD Step Name =>

Submitted DSN=> DWR1.CONNECTD.PROCESS(ONDCOPCD)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Function => Process Term Process Start Time => 19:01:42

Process Name => ODVIK Process End Time => 19:01:42

Process Num => 23,039

Session Class=> 001 Comp Code => 00000008

SMFID => SSYS Comp Msg => CSPA202E

Userid => PRDVIK

Job Name => JVIKDUI9 Job ID => JOB10079

Secondary Node => POQCMOD235

Time on CP => 00:00:00.000

Time on zIIP => 00:00:00.000

zIIP Qualify => 00:00:00.000

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Function => COPY Step Start Time => 19:08:27

Process Name => ODVIK Step End Time => 19:08:27

Process Num => 23,039

SMFID => SSYS Comp Code => 00000000

Userid => PRDVIK Comp Msg => SCPA000I

Job Name => JVIKDUI9 Job ID => JOB10079

Secondary Node => POQCMOD235 Step Name => STEP01

Pnode Rel Ver=> 5.02.00 Snode Rel Ver=> n/a

Other addr => 10.191.141.17

Other port => 01364

Session Class=> 002

Session Protocol => TCP

FASP => No

No HSAO license

V2 Buffer Size => 262,144

Negotiated V2 Buffer Size => 65,536

TCP Buffer Size Used => 262,144

Compression Control Feature: OFF

TLS V1.0 Enabled => Yes Encrypt.Data=Y

TLS Ciphersuite => TLS\_RSA\_WITH\_AES\_256\_CBC\_SHA

Subject => (SN=ee:a1:e0:ed:eb:f8:57:75:73:9f:d6:31:d6:80:a0:32/C=US/PO=10036/ST=NY/L=New York/O=Morgan Stanley/OU=Enterprise Infras

Issuer => (C=GB/ST=Greater Manchester/L=Salford/O=COMODO CA Limited/CN=COMODO RSA Organization Validation Secure Server CA/)

\*\*\*\*\* CHECKPOINTED; Interval => 100,000,000

From ( Pnode

Dsn=>PVIK.NRPT.PVIKDUI9.MARGINS.FEED)

DCB => LRECL => 00236 BLKSIZE => 27848 RECFM => FB DSORG => PS

DISP=> (S, , )

recs => 0 blks => 1

I/O BYTES => 1,652

VTAM BYTES => 1,685

Cmpr Perc => - 2.0%

VOL=SER=> PRDS5R

Time on CP => 00:00:00.007

Time on zIIP => 00:00:00.000

zIIP Qualify => 00:00:00.000

To ( Snode

Dsn=>/arsacif4/HSYS.PVIKDUI9.PVIKDUID.PVIKDUI9.2018102.190108.ARD)

DCB => LRECL => 00236 BLKSIZE => 27848 RECFM => FB DSORG => PS

DISP=> (R,C,D)

recs => 7 blks => 1

I/O BYTES => 1,659

VTAM BYTES => 1,656

Cmpr Perc => 0.2%

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CD.H235CD SELECT STATISTICS DATE : 04.12.2018

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Function => RUN TASK (SNODE) Step Start Time => 19:08:27

Process Name => ODVIK Step End Time => 19:08:28

Process Num => 23,039

Comp Code => 00000000

SMFID => SSYS Comp Msg => XSMG402I

Userid => PRDVIK

Job Name => JVIKDUI9 Job ID => JOB10079

Secondary Node => POQCMOD235 Step Name =>

Session Class=> 002

Program name => UNIX

Sysopts => (

\"ls /arsacif4/HSYS.PVIKDUI9.PVIKDUID.PVIKDUI9.20181\

\02.190108.ARD"\

)

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Function => Process Term Process Start Time => 19:08:26

Process Name => ODVIK Process End Time => 19:08:28

Process Num => 23,039

Session Class=> 002 Comp Code => 00000000

SMFID => SSYS Comp Msg => SVTM100I

Userid => PRDVIK

Job Name => JVIKDUI9 Job ID => JOB10079

Secondary Node => POQCMOD235

Time on CP => 00:00:00.012

Time on zIIP => 00:00:00.000

zIIP Qualify => 00:00:00.000

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Function => Process Initialization

Date => 04.12.2018 Time => 23:37:40

Submit Date => (none) Submit Time => 00:00:00

Schedule Date=> (none) Schedule Time=> 00:00:00

Process Name => Q35K8 Process Num => 23,039

UserID => PRDDSA

SnodeID => No

Primary Node => CD.H265CD Secondary Node => CD.H235CD

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Function => COPY Step Start Time => 23:37:41

Process Name => Q35K8 Step End Time => 23:37:41

Process Num => 23,039

SMFID => SSYS Comp Code => 00000000

Userid => PRDDSA Comp Msg => SCPA000I

Job Name => Unavailable Job ID => Unavailable

Primary Node => CD.H265CD Step Name => STEP01

Pnode Rel Ver=> 5.02.00 Snode Rel Ver=> 5.02.00

Other addr => 170.74.252.117

Other port => 07293

Session Class=> 009

Session Protocol => TCP

FASP => No

Node not capable of FASP

V2 Buffer Size => 262,144

Negotiated V2 Buffer Size => 262,144

TCP Buffer Size Used => 262,144

Compression Control Feature: ON

Negotiated: EXT Compression

TLS V1.1 Enabled => Yes Encrypt.Data=Y

TLS Ciphersuite => TLS\_RSA\_WITH\_AES\_256\_CBC\_SHA

Subject => ()

Issuer => ()

\*\*\*\*\* CHECKPOINTED; Interval => 10,000,000

From ( Pnode

Dsn=>PDSA.NVS.PDSADTRM.RACFTERM.DATA.ALU.REVOKED)

DCB => LRECL => 00121 BLKSIZE => 01210 RECFM => FB DSORG => PS

DISP=> (S, , )

recs => 0 blks => 345

I/O BYTES => 415,877

VTAM BYTES => 12,325

Cmpr Perc => 97.0% ZLIB=>1.2.7 CMPrlevel=>1 WINdowsize=>15 MEMlevel=>4 ZEDC-HW-Send ZIIP-Fallback WIN15

VOL=SER=> PRDQDZ

Time on CP => 00:00:00.011

Time on zIIP => 00:00:00.000

zIIP Qualify => 00:00:00.000

To ( Snode

Dsn=>PDSA.NVS.PDSADTRM.RACFTERM.DATA.ALU.REVOKED)

DCB => LRECL => 00121 BLKSIZE => 01210 RECFM => FB DSORG => PS

DISP=> (R, , )

recs => 0 blks => 345

I/O BYTES => 415,877

VTAM BYTES => 12,325

Cmpr Perc => 97.0% ZLIB=>1.2.7 CMPrlevel=>1 WINdowsize=>15 MEMlevel=>4 ZEDC-HW-Recv ZIIP-Fallback

VOL=SER=> PRDSI9

Time on CP => 00:00:00.016

Time on zIIP => 00:00:00.001

zIIP Qualify => 00:00:00.001

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CD.H235CD SELECT STATISTICS DATE : 04.12.2018

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Function => RUN TASK (SNODE) Step Start Time => 23:37:41

Process Name => Q35K8 Step End Time => 23:37:41

Process Num => 23,039

Comp Code => 00000000

SMFID => SSYS Comp Msg => SRTA000I

Userid => PRDDSA

Job Name => Unavailable Job ID => Unavailable

Secondary Node => CD.H235CD Step Name => TRIGGER

Session Class=> 009

Program name => POSTOPC

Parm data => (

C'PDSA.NVS.PDSADTRM.RACFTERM.DATA.ALU.REVOKE\ ||

\D'

)

Time on CP => 00:00:00.003

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**Example 2**

The PNODE, CD.H135CD, is our production CDZ instance. The SNODE, CD.H235CD, is a CDZ instances running on one of our QA LPARs. I’ve excerpted the relevant sections of the log from both PNODE and SNODE. On the PNODE side, we see process 62,741 starting at 04.11.02 and completing successfully. At 04.17.56 a session is established but there is an SSL handshake failure. The process number is 62,760. At 04.20.59 this process starts again and completes successfully.

**PNODE (CD.H135CD)**

00.00.01 STC30968 ---- THURSDAY, 01 MAR 2018 ----

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04.11.02 STC30968 ICH70001I SCHDSUPP LAST ACCESS AT 04:10:59 ON THURSDAY, MARCH 1, 2018

04.11.02 STC30968 SVTM036I PROCESS STARTED QATRIG ( 62,741) SNODE=CD.H235CD

04.11.02 STC30968 SVTM052I TRIGGER RUN TASK QATRIG ( 62,741) SNODE=CD.H235CD 430

430 SVTM052I COMPLETED 00000000/SRTA000I

04.11.02 STC30968 SVTM037I PROCESS ENDED QATRIG ( 62,741) SNODE=CD.H235CD.

04.11.02 STC30968 SVTM056I SESSION (001) TERMINATED WITH SNODE=CD.H235CD

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04.17.56 STC30968 CSPA202E SSL handshake failure, reason=Socket closed by remote partner

04.17.56 STC30968 SVTM055I SESSION (001) ESTABLISHED WITH SNODE=CD.H235CD

04.17.56 STC30968 CSPA202E SSL handshake failure, reason=Socket closed by remote partner

04.17.56 STC30968 SVTM600I Process Ended QATRIG ( 62,760) SNODE=CD.H235CD 413

413 SVTM600I Msg=CSPA202E 420 Socket closed by remote partner

04.17.56 STC30968 SVTM056I SESSION (001) TERMINATED WITH SNODE=CD.H235CD

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04.20.58 STC30968 SVTM055I SESSION (001) ESTABLISHED WITH SNODE=CD.H235CD

04.20.58 STC30968 ICH70001I SCHDSUPP LAST ACCESS AT 04:20:31 ON THURSDAY, MARCH 1, 2018

04.20.59 STC30968 SVTM055I SESSION (002) ESTABLISHED WITH SNODE=CD.H235CD

04.20.59 STC30968 ICH70001I SCHDSUPP LAST ACCESS AT 04:20:58 ON THURSDAY, MARCH 1, 2018

04.20.59 STC30968 SVTM036I PROCESS STARTED QATRIG ( 62,792) SNODE=CD.H235CD

04.20.59 STC30968 SVTM052I STEP1A RUN TASK PCMNDDPR( 62,795) SNODE=NY03CDAS01 627

627 SVTM052I COMPLETED 00000000/XSMG402I

04.20.59 STC30968 SVTM037I PROCESS ENDED PCMNDDPR( 62,795) SNODE=NY03CDAS01

04.20.59 STC30968 SVTM056I SESSION (003) TERMINATED WITH SNODE=NY03CDAS01

04.20.59 STC30968 SVTM036I PROCESS STARTED QATRIG ( 62,760) SNODE=CD.H235CD

04.20.59 STC30968 SVTM052I TRIGGER RUN TASK QATRIG ( 62,792) SNODE=CD.H235CD 631

631 SVTM052I COMPLETED 00000000/SRTA000I

04.20.59 STC30968 SVTM037I PROCESS ENDED QATRIG ( 62,792) SNODE=CD.H235CD

04.21.00 STC30968 SVTM052I TRIGGER RUN TASK QATRIG ( 62,760) SNODE=CD.H235CD 650

650 SVTM052I COMPLETED 00000000/SRTA000I

04.21.00 STC30968 SVTM037I PROCESS ENDED QATRIG ( 62,760) SNODE=CD.H235CD

04.21.00 STC30968 SVTM056I SESSION (001) TERMINATED WITH SNODE=CD.H235CD

04.21.00 STC30968 SVTM056I SESSION (002) TERMINATED WITH SNODE=CD.H235CD

SNODE (CD.H235CD)

We see the session established and the SSL handshake failure, but at 04.18.20, 24 seconds after it is logged on the PNODE. Also note that there are no log messages between 04.16.44 and 04.18.20. I would have expected the SESSION ESTABLISHED message to be logged at close to the same time as on the PNODE, not 24 seconds later.

00.00.01 STC30968 ---- THURSDAY, 01 MAR 2018 ----

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04.16.44 STC14424 SVTM056I SESSION (000) TERMINATED WITH PNODE=ETLNQA6

04.18.20 STC14424 SVTM055I SESSION (001) ESTABLISHED WITH PNODE=CD.H135CD

04.18.20 STC14424 CSPA202E SSL handshake failure, reason=Socket closed by remote partner

04.18.20 STC14424 SVTM601I Process Ended PNODE=CD.H135CD 637

637 SVTM601I Msg=CSPA202E 420 Socket closed by remote partner