# Demonstration of *gather\_trace* and *trim\_trace* scripts for initially processing system-info dumps

## gather\_trace

### Purpose

To consolidate all major trace files to a single directory within a HANA system-info dump.

### Limitations

Does not extract archived traces from their gzip archives.

### Usage

Must be executed within the HDB<instance#> directory of a system-info dump. Create a directory called *trace* in the HDB<instance#> directory; leaves original files in tact

E.g.

I844387@VANN00517354A ~/desktop/fullsysteminfodump\_vanpglnxc25b6\_DEV\_2015\_08\_19\_22\_42\_57/HDB22$ ls -l

total 4

drwx------+ 1 I844387 Domain Users 0 Aug 21 08:45 exe

drwx------+ 1 I844387 Domain Users 0 Aug 21 08:45 vanpglnxc25b6

I844387@VANN00517354A ~/desktop/fullsysteminfodump\_vanpglnxc25b6\_DEV\_2015\_08\_19\_22\_42\_57/HDB22$ gather\_trace

I844387@VANN00517354A ~/desktop/fullsysteminfodump\_vanpglnxc25b6\_DEV\_2015\_08\_19\_22\_42\_57/HDB22$ cd trace

I844387@VANN00517354A ~/desktop/fullsysteminfodump\_vanpglnxc25b6\_DEV\_2015\_08\_19\_22\_42\_57/HDB22/trace$ ls -l

total 177492

-rwx------ 1 I844387 Domain Users 51045632 Aug 7 14:31 backup\_vanpglnxc25b6.log

-rwx------ 1 I844387 Domain Users 9885853 Aug 7 14:35 DB\_DEV.backup\_vanpglnxc25b6.log

-rwx------ 1 I844387 Domain Users 44784084 Aug 19 14:45 DB\_DEV.indexserver\_alert\_vanpglnxc25b6.trc

-rwx------ 1 I844387 Domain Users 6299428 Aug 19 14:45 DB\_DEV.indexserver\_vanpglnxc25b6.32203.004.trc

-rwx------ 1 I844387 Domain Users 969817 Aug 18 14:54 DB\_DEV.indexserver\_vanpglnxc25b6.32203\_sqldebug.trc

-rwx------ 1 I844387 Domain Users 12966 Jul 13 14:14 DB\_JIM.backup\_vanpglnxc25b6.log

-rwx------ 1 I844387 Domain Users 586161 Aug 19 15:39 DB\_JIM.indexserver\_alert\_vanpglnxc25b6.trc

-rwx------ 1 I844387 Domain Users 7905217 Aug 13 17:04 DB\_JIM.indexserver\_vanpglnxc25b6.32288.008.trc

-rwx------ 1 I844387 Domain Users 10001118 Aug 17 04:59 DB\_JIM.indexserver\_vanpglnxc25b6.32288.009.trc

-rwx------ 1 I844387 Domain Users 6992081 Aug 19 15:39 DB\_JIM.indexserver\_vanpglnxc25b6.32288.010.trc

-rwx------ 1 I844387 Domain Users 15515 May 28 09:15 DB\_PRD.backup\_vanpglnxc25b6.log

-rwx------ 1 I844387 Domain Users 785029 Aug 19 11:24 DB\_PRD.indexserver\_alert\_vanpglnxc25b6.trc

-rwx------ 1 I844387 Domain Users 3783400 Aug 19 11:35 DB\_PRD.indexserver\_vanpglnxc25b6.32240.000.trc

-rwx------ 1 I844387 Domain Users 2309424 Aug 19 11:24 nameserver\_alert\_vanpglnxc25b6.trc

-rwx------ 1 I844387 Domain Users 34308782 Aug 19 15:43 nameserver\_history.trc

-rwx------ 1 I844387 Domain Users 1158726 Aug 19 11:24 nameserver\_vanpglnxc25b6.32201.000.trc

-rwx------ 1 I844387 Domain Users 879956 Aug 19 15:42 nameserver\_vanpglnxc25b6.32201.loads.000.trc

Normally each file would be scattered about and found in ../HDB<instance#>/<hostname>/trace/[<tenant database name>/]<filename>

By consolidating, this allows us to run other useful scripts on the trace files.

## trim\_trace

### Purpose

To filter Hana database trace files to a specified time range.

### Limitations

Does not extract backint.log files as they have unique formats per backint solution. If the first line with a valid timestamp is the first line with a timestamp in the file, and the preceding lines do not contain a timestamp, the lines without a timestamp will be neglected; due to this, multi-line entries may be lost if they span multiple trace files. Works fine if multi-line entries are contained within a single file.

### Usage

trim\_trace [–from <YYYY-MM-DD hh:mm:ss>] [–to <YYYY-MM-DD hh:mm:ss>] [file1] [file2] …

Supply a time range using the *from* and *to* options and a list of Hana traces to be trimmed. If the *from* or *to* options are omitted, they are set to a min and max date respectively. Creates a directory named after the given time range in the current directory; leaves the original files intact. Sets the *last modified* date of each resulting file to the last timestamp found within the new file.

E.g. 1

I844387@VANN00517354A ~/desktop/fullsysteminfodump\_vanpglnxc25b6\_DEV\_2015\_08\_19\_22\_42\_57/HDB22/trace$ ls -lh

total 174M

-rwx------ 1 I844387 Domain Users 49M Aug 7 14:31 backup\_vanpglnxc25b6.log

-rwx------ 1 I844387 Domain Users 9.5M Aug 7 14:35 DB\_DEV.backup\_vanpglnxc25b6.log

-rwx------ 1 I844387 Domain Users 43M Aug 19 14:45 DB\_DEV.indexserver\_alert\_vanpglnxc25b6.trc

-rwx------ 1 I844387 Domain Users 6.1M Aug 19 14:45 DB\_DEV.indexserver\_vanpglnxc25b6.32203.004.trc

-rwx------ 1 I844387 Domain Users 948K Aug 18 14:54 DB\_DEV.indexserver\_vanpglnxc25b6.32203\_sqldebug.trc

-rwx------ 1 I844387 Domain Users 13K Jul 13 14:14 DB\_JIM.backup\_vanpglnxc25b6.log

-rwx------ 1 I844387 Domain Users 573K Aug 19 15:39 DB\_JIM.indexserver\_alert\_vanpglnxc25b6.trc

-rwx------ 1 I844387 Domain Users 7.6M Aug 13 17:04 DB\_JIM.indexserver\_vanpglnxc25b6.32288.008.trc

-rwx------ 1 I844387 Domain Users 9.6M Aug 17 04:59 DB\_JIM.indexserver\_vanpglnxc25b6.32288.009.trc

-rwx------ 1 I844387 Domain Users 6.7M Aug 19 15:39 DB\_JIM.indexserver\_vanpglnxc25b6.32288.010.trc

-rwx------ 1 I844387 Domain Users 16K May 28 09:15 DB\_PRD.backup\_vanpglnxc25b6.log

-rwx------ 1 I844387 Domain Users 767K Aug 19 11:24 DB\_PRD.indexserver\_alert\_vanpglnxc25b6.trc

-rwx------ 1 I844387 Domain Users 3.7M Aug 19 11:35 DB\_PRD.indexserver\_vanpglnxc25b6.32240.000.trc

-rwx------ 1 I844387 Domain Users 2.3M Aug 19 11:24 nameserver\_alert\_vanpglnxc25b6.trc

-rwx------ 1 I844387 Domain Users 33M Aug 19 15:43 nameserver\_history.trc

-rwx------ 1 I844387 Domain Users 1.2M Aug 19 11:24 nameserver\_vanpglnxc25b6.32201.000.trc

-rwx------ 1 I844387 Domain Users 860K Aug 19 15:42 nameserver\_vanpglnxc25b6.32201.loads.000.trc

I844387@VANN00517354A ~/desktop/fullsysteminfodump\_vanpglnxc25b6\_DEV\_2015\_08\_19\_22\_42\_57/HDB22/trace$ trim\_trace -from "2015-08-05 12:00:00" \*

I844387@VANN00517354A ~/desktop/fullsysteminfodump\_vanpglnxc25b6\_DEV\_2015\_08\_19\_22\_42\_57/HDB22/trace$ cd trimmed\_2015-08-05\_12\_00\_00\_\_9999-99-99\_99\_99\_99/

I844387@VANN00517354A ~/desktop/fullsysteminfodump\_vanpglnxc25b6\_DEV\_2015\_08\_19\_22\_42\_57/HDB22/trace/trimmed\_2015-08-05\_12\_00\_00\_\_9999-99-99\_99\_99\_99$ ls -lh

total 26M

-rw-r--r-- 1 I844387 Domain Users 3.5K Aug 7 14:31 backup\_vanpglnxc25b6.log

-rw-r--r-- 1 I844387 Domain Users 9.7K Aug 7 14:35 DB\_DEV.backup\_vanpglnxc25b6.log

-rw-r--r-- 1 I844387 Domain Users 223K Aug 19 14:45 DB\_DEV.indexserver\_alert\_vanpglnxc25b6.trc

-rw-r--r-- 1 I844387 Domain Users 332K Aug 19 14:45 DB\_DEV.indexserver\_vanpglnxc25b6.32203.004.trc

-rw-r--r-- 1 I844387 Domain Users 22K Aug 18 14:54 DB\_DEV.indexserver\_vanpglnxc25b6.32203\_sqldebug.trc

-rw-r--r-- 1 I844387 Domain Users 573K Aug 19 15:39 DB\_JIM.indexserver\_alert\_vanpglnxc25b6.trc

-rw-r--r-- 1 I844387 Domain Users 7.6M Aug 13 17:04 DB\_JIM.indexserver\_vanpglnxc25b6.32288.008.trc

-rw-r--r-- 1 I844387 Domain Users 9.6M Aug 17 04:59 DB\_JIM.indexserver\_vanpglnxc25b6.32288.009.trc

-rw-r--r-- 1 I844387 Domain Users 6.7M Aug 19 15:39 DB\_JIM.indexserver\_vanpglnxc25b6.32288.010.trc

-rw-r--r-- 1 I844387 Domain Users 3.9K Aug 19 11:24 DB\_PRD.indexserver\_alert\_vanpglnxc25b6.trc

-rw-r--r-- 1 I844387 Domain Users 6.2K Aug 19 11:35 DB\_PRD.indexserver\_vanpglnxc25b6.32240.000.trc

-rw-r--r-- 1 I844387 Domain Users 3.9K Aug 19 11:24 nameserver\_alert\_vanpglnxc25b6.trc

-rw-r--r-- 1 I844387 Domain Users 6.2K Aug 19 11:24 nameserver\_vanpglnxc25b6.32201.000.trc

-rw-r--r-- 1 I844387 Domain Users 140K Aug 19 15:42 nameserver\_vanpglnxc25b6.32201.loads.000.trc

As you can see, the size of many files have been reduced; if a file is empty after copying it is removed.

E.g. 2

I844387@VANN00517354A ~/desktop/fullsysteminfodump\_vanpglnxc25b6\_DEV\_2015\_08\_19\_22\_42\_57/HDB22/trace$ ls -lh

total 174M

-rwx------ 1 I844387 Domain Users 49M Aug 7 14:31 backup\_vanpglnxc25b6.log

-rwx------ 1 I844387 Domain Users 9.5M Aug 7 14:35 DB\_DEV.backup\_vanpglnxc25b6.log

-rwx------ 1 I844387 Domain Users 43M Aug 19 14:45 DB\_DEV.indexserver\_alert\_vanpglnxc25b6.trc

-rwx------ 1 I844387 Domain Users 6.1M Aug 19 14:45 DB\_DEV.indexserver\_vanpglnxc25b6.32203.004.trc

-rwx------ 1 I844387 Domain Users 948K Aug 18 14:54 DB\_DEV.indexserver\_vanpglnxc25b6.32203\_sqldebug.trc

-rwx------ 1 I844387 Domain Users 13K Jul 13 14:14 DB\_JIM.backup\_vanpglnxc25b6.log

-rwx------ 1 I844387 Domain Users 573K Aug 19 15:39 DB\_JIM.indexserver\_alert\_vanpglnxc25b6.trc

-rwx------ 1 I844387 Domain Users 7.6M Aug 13 17:04 DB\_JIM.indexserver\_vanpglnxc25b6.32288.008.trc

-rwx------ 1 I844387 Domain Users 9.6M Aug 17 04:59 DB\_JIM.indexserver\_vanpglnxc25b6.32288.009.trc

-rwx------ 1 I844387 Domain Users 6.7M Aug 19 15:39 DB\_JIM.indexserver\_vanpglnxc25b6.32288.010.trc

-rwx------ 1 I844387 Domain Users 16K May 28 09:15 DB\_PRD.backup\_vanpglnxc25b6.log

-rwx------ 1 I844387 Domain Users 767K Aug 19 11:24 DB\_PRD.indexserver\_alert\_vanpglnxc25b6.trc

-rwx------ 1 I844387 Domain Users 3.7M Aug 19 11:35 DB\_PRD.indexserver\_vanpglnxc25b6.32240.000.trc

-rwx------ 1 I844387 Domain Users 2.3M Aug 19 11:24 nameserver\_alert\_vanpglnxc25b6.trc

-rwx------ 1 I844387 Domain Users 33M Aug 19 15:43 nameserver\_history.trc

-rwx------ 1 I844387 Domain Users 1.2M Aug 19 11:24 nameserver\_vanpglnxc25b6.32201.000.trc

-rwx------ 1 I844387 Domain Users 860K Aug 19 15:42 nameserver\_vanpglnxc25b6.32201.loads.000.trc

I844387@VANN00517354A ~/desktop/fullsysteminfodump\_vanpglnxc25b6\_DEV\_2015\_08\_19\_22\_42\_57/HDB22/trace$ trim\_trace -from "2015-08-05 12:00:00" -to "2015-08-10 20:00:00" \*

I844387@VANN00517354A ~/desktop/fullsysteminfodump\_vanpglnxc25b6\_DEV\_2015\_08\_19\_22\_42\_57/HDB22/trace$ cd trimmed\_2015-08-05\_12\_00\_00\_\_2015-08-10\_20\_00\_00/

I844387@VANN00517354A ~/desktop/fullsysteminfodump\_vanpglnxc25b6\_DEV\_2015\_08\_19\_22\_42\_57/HDB22/trace/trimmed\_2015-08-05\_12\_00\_00\_\_2015-08-10\_20\_00\_00$ ls -lh

total 2.0M

-rw-r--r-- 1 I844387 Domain Users 3.4K Aug 7 14:31 backup\_vanpglnxc25b6.log

-rw-r--r-- 1 I844387 Domain Users 9.5K Aug 7 14:35 DB\_DEV.backup\_vanpglnxc25b6.log

-rw-r--r-- 1 I844387 Domain Users 80K Aug 10 16:19 DB\_DEV.indexserver\_alert\_vanpglnxc25b6.trc

-rw-r--r-- 1 I844387 Domain Users 109K Aug 10 16:20 DB\_DEV.indexserver\_vanpglnxc25b6.32203.004.trc

-rw-r--r-- 1 I844387 Domain Users 889 Aug 10 14:31 DB\_DEV.indexserver\_vanpglnxc25b6.32203\_sqldebug.trc

-rw-r--r-- 1 I844387 Domain Users 1.7M Aug 10 19:59 DB\_JIM.indexserver\_vanpglnxc25b6.32288.008.trc

-rw-r--r-- 1 I844387 Domain Users 1.4K Aug 10 11:24 DB\_PRD.indexserver\_alert\_vanpglnxc25b6.trc

-rw-r--r-- 1 I844387 Domain Users 1.4K Aug 10 11:24 DB\_PRD.indexserver\_vanpglnxc25b6.32240.000.trc

-rw-r--r-- 1 I844387 Domain Users 1.4K Aug 10 11:24 nameserver\_alert\_vanpglnxc25b6.trc

-rw-r--r-- 1 I844387 Domain Users 3.8K Aug 10 11:24 nameserver\_vanpglnxc25b6.32201.000.trc

-rw-r--r-- 1 I844387 Domain Users 48K Aug 7 00:09 nameserver\_vanpglnxc25b6.32201.loads.000.trc

As you can see, the filtered traces do not exceed the supplied *to* timestamp.