Installation Support Document

GIS TIBCO BW (EAI) – xsnl50p440s.pharma.aventis.com

| **Instance:** |  |
| --- | --- |
| **Architecture Specification:** | IS\_506885 : AS - GIS TIBCO BW (EAI) Platform - Architecture Specifications |
| **Document References** |  |

|  | **Name(s) and Title(s)** | **Signature(s)** | **Date *(dd/mmm/yyyy)*** |
| --- | --- | --- | --- |
| **Author** |  |  |  |
| **Approver** |  |  |  |

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## Installation Qualification Test Evidence

| **Step** | **Action** | **Expected results** | **Actual results** | **Installation Verification OK? (Y/N/NA)** | **Anomaly Reference** |
| --- | --- | --- | --- | --- | --- |
|  | Check RAM & SWAP  Command: free -g | RAM >=30Gb  SWAP >= 2\*RAM | total used free shared buff/cache available Mem: 94 10 77 0 5 82 Swap: 134 0 134 |  |  |
|  | Check number of CPUs on the host  Command:  lscpu | egrep 'Thread|Core|Socket|^CPU\(' | CPU(s): 4  Thread(s) per core: 1  Core(s) per socket: 1  Socket(s): 4 | CPU(s): 4 Thread(s) per core: 1 Core(s) per socket: 1 Socket(s): 4 | HI3 |  |
|  | Check the max user processes  Command: ulimit -u | 204800 | 192956 |  |  |
|  | Check the stack size  Commands:  ulimit -s | 10240 | 10240 |  |  |
|  | Check the open files limit  Command:  ulimit -n | 10000 | 50000 |  |  |
|  | Check for availability of necessary filesystems for Tibco home  Command:  df –h /apps/tibco | Filesystem Size Used Avail Use% Mounted on  /dev/mapper/vg01-lv\_apps\_tibco 50G 7.0G 40G 15% /apps/tibco  Disk space >=50G | Filesystem Size Used Avail Use% Mounted on /dev/mapper/vg01-lv\_apps\_tibco 118G 4.3G 108G 4% /apps/tibco |  |  |
|  | Check for availability of necessary filesystems for Tibco logging  Command: df –h /logs/tiblog | Filesystem Size Used Avail Use% Mounted on  /dev/mapper/vg01-lv\_logs\_tiblog 50G 54M 47G 1% /logs/tiblog | Filesystem Size Used Avail Use% Mounted on /dev/mapper/vg01-lv\_logs\_tiblog 50G 53M 47G 1% /logs/tiblog |  |  |
|  | Check Max users sessions  more /proc/sys/fs/inotify/max\_user\_instances | 256 | 128 |  |  |

## BusinessWorks Installation Qualification Test Evidence

| **Step** | **Action** | **Expected results** | **Actual results** | **Installation Verification OK? (Y/N/NA)** | **Anomaly Reference** |
| --- | --- | --- | --- | --- | --- |
|  | Check the installed software, using TIBCO account  Command:  view .TIBCO/UniversalInstallerHistory.xml  Paste the complete screenshot in ‘Actual Results’ | Xml document listing all the Tibco components installed on the host | <?xml version="1.0" encoding="UTF-8" standalone="no"?> <UniversalInstallerHistory>  <install logsDirectory="/home/tibco/tibeu11t/.TIBCO/install\_2018-02-13.161718" mode="SILENT" tibcoHome="/apps/tibco/BW11T" timestamp="02-13-2018.162405" version="3.6.2.003">  <productsInitialized>  <product name="TIBCO ActiveMatrix BusinessWorks 6.4.0" version="6.4.0"/>  <product name="bstudio" version="4.0.0"/>  <product name="bw-base" version="1.4.0.000"/>  <product name="bw-enterprise" version="6.4.0.000"/>  <product name="64bit JRE Oracle" version="1.8.0.121"/>  <product name="TIBCO Wrapper" version="2.4.5.001"/>  </productsInitialized>  <productsSelected>  <product name="TIBCO ActiveMatrix BusinessWorks 6.4.0" version="6.4.0">  <feature name="Design" version="6.4.0"/>  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|  | Check maximum and minimum heap allocation for bwagent  Command: View <BW\_HOME>/bw/<version>/bin/**bwagent.tra** | java.extended.properties=-Xmx**4096m** -Xms**4096m** -XX:+HeapDumpOnOutOfMemoryError -XX:SurvivorRatio=128 -XX:MaxTenuringThreshold=0 -XX:+UseTLAB -XX:+UseConcMarkSweepGC -XX:+CMSClassUnloadingEnabled -XX:+CMSClassUnloadingEnabled -Djava.security.egd=file:///dev/urandom | java.extended.properties=-Xmx4096m -Xms1024m -XX:+HeapDumpOnOutOfMemoryError -XX:SurvivorRatio=128 -XX:MaxTenuringThreshold=0 -XX:+UseTLAB -XX:+UseConcMarkSweepGC -XX:+CMSClassUnloadingEnabled -XX:+CMSClassUnloadingEnabled -Djava.security.egd=file:///dev/urandom |  |  |
|  | Check maximum and minimum heap allocation for creation of appspaces/ appnodes under current implementation  Command: View <BW\_HOME>/bw/<version>/bin/bwcommon.tra | java.extended.properties=-Xmx**2048m** –Xms**2048m** -XX:+HeapDumpOnOutOfMemoryError -XX:SurvivorRatio=128 -XX:MaxTenuringThreshold=0 -XX:+UseTLAB -XX:+UseConcMarkSweepGC -XX:+CMSClassUnloadingEnabled | java.extended.properties=-Xmx2048m -Xms256m -XX:+UseG1GC -XX:+CrashOnOutOfMemoryError -XX:+HeapDumpOnOutOfMemoryError |  |  |
|  | In <BW\_HOME>/bw/<version>/bin//bwagent-logback.xml, under “<appender name="STDOUT" class="ch.qos.logback.core.ConsoleAppender">”, check for <pattern>%d{**yyyy-MM-dd** HH:mm:ss.SSS} %-5level [%thread] %logger{36} - %msg%n</pattern> | <pattern>%d{**yyyy-MM-dd** HH:mm:ss.SSS} %-5level [%thread] %logger{36} - %msg%n</pattern> | <?xml version="1.0" encoding="UTF-8"?> <configuration scan="true">   <appender name="FILE" class="ch.qos.logback.core.rolling.RollingFileAppender">  <file>${BW\_LOG\_DIR}/bwagent.log</file>  <append>true</append>  <rollingPolicy class="ch.qos.logback.core.rolling.TimeBasedRollingPolicy">  <fileNamePattern>${BW\_LOG\_DIR}/bwagent.log.%d{yyyy-MM-dd}.log.zip</fileNamePattern>  </rollingPolicy>  <encoder>  <pattern>%d{yyyy-MM-dd HH:mm:ss.SSS} %-5level [%thread] %logger{36} - %msg%n</pattern>  </encoder>  </appender>   <appender name="STDOUT" class="ch.qos.logback.core.ConsoleAppender">  <filter class="ch.qos.logback.classic.filter.ThresholdFilter">  <level>WARN</level>  </filter>  <withJansi>true</withJansi>  <encoder>  <pattern>%d{yyyy-MM-dd HH:mm:ss.SSS} %-5level [%thread] %logger{36} - %msg%n</pattern>  </encoder>  </appender>   <contextListener class="ch.qos.logback.classic.jul.LevelChangePropagator">  <resetJUL>true</resetJUL>  </contextListener>    <logger name="org.glassfish.jersey.client.ClientRequest" additivity="false">  <appender-ref ref="FILE" />  </logger>    <root level="INFO">  <appender-ref ref="STDOUT" />  <appender-ref ref="FILE" />  </root>  </configuration> |  |  |
|  | Check for bwagent process for the sytem account for related Tibco domain  Command: ps –eaf|grep bwagent | <system account> <processId> <Parent prcess Id> 0 <date> ? <uptime> <TIBCO\_HOME>/bw/<version>/bin/bwagent --innerProcess | tibeu11t 20971 1 0 Mar06 ? 00:38:35 ./bwagent --innerProcess tibeu11t 40844 40828 0 17:49 pts/0 00:00:00 sh -c ps -fu $LOGNAME|grep bwagent tibeu11t 40846 40844 0 17:49 pts/0 00:00:00 grep bwagent |  |  |
|  | Check the bwagents from bwadmin  Command: <BW\_HOME>/bw/<version>/bin/bwadmin --propFile <BW\_HOME>/bw/<version>/bin/bwadmin.tra show agents | All the bwagents registered registered for the agent network shall be listed | TIBCO ActiveMatrix BusinessWorks version 6.4.0, hotfix 2, build V36, 2017-08-16  TEA Server URL : http://XSNW50P582X:8777/tea Registered TEA Agent : eu-bw11l04t.pharma.aventis.com Auto Registration : on Name State Machine Version ConfigState MgmtPort PID Uptime  eu-bw11l01t.pharma.aventis.com Running xsnl50k341p.pharma.aventis.com 6.4.0 InSync 0.0.0.0:8079 3453 8d 03:14:31 eu-bw11l03t.pharma.aventis.com Running xsnl50p440s.pharma.aventis.com 6.4.0 InSync 0.0.0.0:8079 20971 8d 03:11:19 eu-bw11l02t.pharma.aventis.com Running xsnl50k420f.pharma.aventis.com 6.4.0 InSync 0.0.0.0:8079 35337 8d 03:15:44 eu-bw11l04t.pharma.aventis.com Running xsnl50p470x.pharma.aventis.com 6.4.0 InSync 0.0.0.0:8079 49124 8d 03:17:44 |  |  |
|  | Check shared NAS volumes tibusrdata | NAS share mounted to /data/tibusrdata/xxx/ | total 4 drwx------. 3 tibeu11t tibcoadm 4096 Feb 28 13:50 gbod |  |  |
|  | Check shared NAS volumes TRANS | NAS share mounted to /trans | total 0 -rwx------. 1 tibeu11t tibcoadm 0 Nov 23 16:25 titi -rwx------. 1 tibeu11t tibcoadm 0 Nov 23 16:57 sos -rwx------. 1 tibeu11t tibcoadm 0 Feb 27 11:06 test -rwx------. 1 tibeu11t tibcoadm 0 Feb 27 11:08 test2 |  |  |
|  | Check access to tibusrdata with TIBCO account | Using TIBCO account check R/W in the /data/tibusrdata/xxx/ folder |  |  |  |