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Reason for Revision
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# INSTALLATION SUPPORT DOCUMENT

## TIBCO EAI KAFKA PLATFORM - PRD - XSPL62F228C

<b>Project / Application Name:</b>	Tibco EAI KAFKA Platform
<b>Environment:</b>	PRD
<b>Architecture Specification:</b>	IS_1664528: "AS - Architecture Specifications - Tibco EAI Kafka Platform"
<b>Document References</b>	IS_1664527: PUMA-Installation procedure document - Kafka Cluster installation via Ansible

	<b>Name(s) and Title(s)</b>	<b>Signature(s)</b>	<b>Date (dd/mm/yyyy )</b>
<b>Author</b>	See GeodIS	See GeodIS	See GeodIS
<b>Approver</b>	See GeodIS	See GeodIS	See GeodIS

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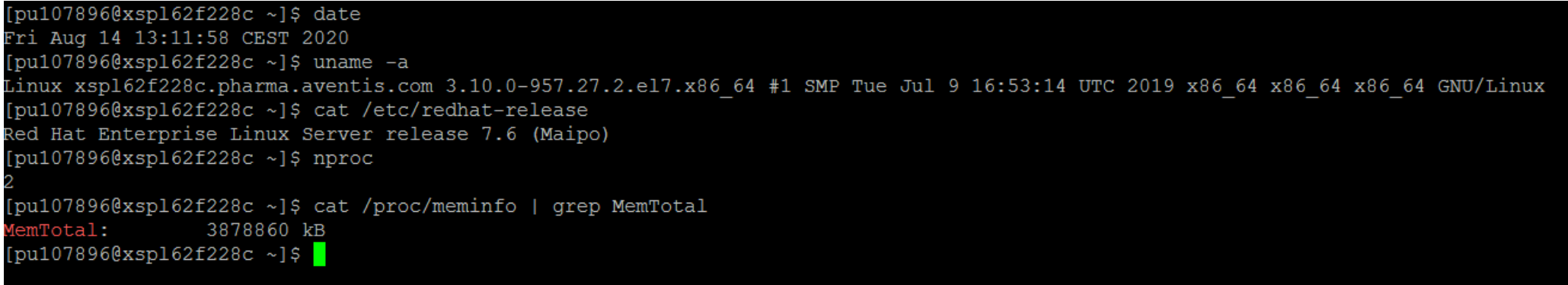
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## 1. SERVER HARDWARE VERIFICATIONS

Step	Action	Expected	Evidence	Installation Verification OK? (Y/N/NA)	Anomaly Reference
Server Hardware Components	date uname -a cat /etc/redhat-release nproc cat /proc/meminfo   grep MemTotal	<b>Host</b> : xspl62f228c.pharma.aventis.com <b>OS</b> : Red Hat Enterprise Linux Server release 7.6 (Maipo) <b>CPU</b> : >=2 <b>Memory</b> > 3Gb	See below	Y	NA
<b>Evidence:</b> 					

## 2. DEPLOYMENT SERVER (ANSIBLE) VERIFICATIONS

Step	Action	Expected	Evidence	Installation Verification OK? (Y/N/NA)	Anomaly Reference
Check the list of the kafka servers aliases linked to the project name	Display in the Ansible AWS console the inventory for the related project/environment	KAFKA PRD Project kafka_alias_server1: aws-kafka01p.pharma.aventis.com kafka_alias_server2: aws-kafka02p.pharma.aventis.com kafka_alias_server3: aws-kafka03p.pharma.aventis.com	See below	Y	NA
<u>Evidence:</u>					

Step	Action	Expected	Evidence	Installation Verification OK? (Y/N/NA)	Anomaly Reference
	<div><div>curisé   awx-ships.pharma.aventis.com/#/inventories/inventory/27?inventory_search=page_size:20;order_by:name;search:kafka</div><div><div>fr59329-local</div><div><div><div></div><div>0</div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div></div><div><div>INVENTORIES / PRIMS KAFKA PRD</div><div><div>PRIMS KAFKA PRD</div><div><div>DETAILS</div><div>PERMISSIONS</div><div>GROUPS</div><div>HOSTS</div><div>SOURCES</div><div>COMPLETED JOBS</div></div><div><div><div>* NAME</div><div>PRIMS KAFKA PRD</div></div><div><div>DESCRIPTION</div><div></div></div><div><div>* ORGANIZATION</div><div><div>PRIMS</div></div></div><div><div><div>INSIGHTS CREDENTIAL</div><div></div></div><div><div>INSTANCE GROUPS</div><div></div></div></div><div><div>VARIABLES</div><div><div>YAML</div><div>JSON</div></div><div><div>1 ---</div><div>2 kafka_certificate: "aws-kafka-prd.jks"</div><div>3 kafka_serviceaccount: "PS105056"</div><div>4 kafka_alias_server1: aws-kafka01p.pharma.aventis.com</div><div>5 kafka_alias_server2: aws-kafka02p.pharma.aventis.com</div><div>6 kafka_alias_server3: aws-kafka03p.pharma.aventis.com</div></div><div><div>CANCEL</div><div>SAVE</div></div></div><div><div>INVENTORIES</div><div>HOSTS</div></div><div><div>SEARCH</div><div>KEY</div></div></div></div></div></div>				

Step	Action	Expected	Evidence	Installation Verification OK? (Y/N/NA)	Anomaly Reference
Check the result of the automated deployment job	Display in the Ansible AWS console the job log for the related project/environment	KAFKA PRD Project <ul style="list-style-type: none"> <li>- Validate the playbook name : setup_kafka.yaml</li> <li>- Validate the server names (see ISD title for server name)</li> <li>- Check the number of failed steps is 0</li> </ul>	See below	Y	NA



Step	Action	Expected	Evidence	Installation Verification OK? (Y/N/NA)	Anomaly Reference
<div> <div>JOBS / 2391 - PRIMS - KAFKA PRD</div> <div> <div> <div>DETAILS</div> <div> <div>STATUS</div> <div>Successful</div> </div> <div> <div>STARTED</div> <div>7/3/2020 9:40:18 AM</div> </div> <div> <div>FINISHED</div> <div>7/3/2020 9:41:43 AM</div> </div> <div> <div>JOB TEMPLATE</div> <div>PRIMS - KAFKA PRD</div> </div> <div> <div>JOB TYPE</div> <div>Run</div> </div> <div> <div>LAUNCHED BY</div> <div>e0308814</div> </div> <div> <div>INVENTORY</div> <div>PRIMS KAFKA PRD</div> </div> <div> <div>PROJECT</div> <div>SHIPS KAFKA AWS</div> </div> <div> <div>REVISION</div> <div>4cc8901</div> </div> <div> <div>PLAYBOOK</div> <div>setup_kafka.yml</div> </div> <div> <div>CREDENTIAL</div> <div>PRIMS KAFKA AWS EMEA</div> </div> <div> <div>ENVIRONMENT</div> <div>/var/lib/awx/venv/ansible</div> </div> <div> <div>EXECUTION NODE</div> <div>awx</div> </div> <div> <div>INSTANCE GROUP</div> <div>tower</div> </div> <div> <div>EXTRA VARIABLES</div> <div>YAML JSON</div> </div> </div> <div> <div>PRIMS - KAFKA PRD</div> <div> <div>PLAYS 1 TASKS 40 HOSTS 3 ELAPSED 00:01:25</div> <div> <div>SEARCH</div> <div>Q KEY</div> </div> <div> <div>212 changed: [xspl62f226s.pharma.aventis.com]</div> <div>213 changed: [xspl62f228c.pharma.aventis.com]</div> <div>214</div> <div> <div>215 TASK [restart service kafka] ***** 09:41:41</div> <div>*****</div> <div>216 changed: [xspl62f224a.pharma.aventis.com]</div> <div>217 changed: [xspl62f226s.pharma.aventis.com]</div> <div>218 changed: [xspl62f228c.pharma.aventis.com]</div> <div>219</div> <div>220 PLAY RECAP ***** 09:41:43</div> <div>*****</div> <div>221 xspl62f224a.pharma.aventis.com : ok=30 changed=3 unreachable=0 failed=0 skipped=10 rescued=0 ignored=0</div> <div>222 xspl62f226s.pharma.aventis.com : ok=30 changed=3 unreachable=0 failed=0 skipped=10 rescued=0 ignored=0</div> <div>223 xspl62f228c.pharma.aventis.com : ok=30 changed=3 unreachable=0 failed=0 skipped=10 rescued=0 ignored=0</div> <div>224</div> </div> </div> </div> </div></div></div>					
Step	Action	Expected	Evidence	Installation Verification OK? (Y/N/NA)	Anomaly Reference
Check the kafka version to be deployed	Display in GIT repository the deployed playbook	Check in the kafka playbook setup_kafka.yml the kafka_ver variable	See below	Y	NA



### 3. SERVER SOFTWARE VERIFICATIONS

Step	Action	Expected	Evidence	Installation Verification OK? (Y/N/NA)	Anomaly Reference
Server Software Components Installed	date uname -a ll /apps/kafka/kafka	Kafka folder name (meaning installed kafka version) should contain the version number mentioned in the setup_kafka.yml variable mentioned in the previous table : 2.4.1	See below	Y	NA
<b>Evidence:</b> <pre>[pu107896@xspl62f228c ~]\$ date Fri Aug 14 13:13:48 CEST 2020 [pu107896@xspl62f228c ~]\$ uname -a Linux xspl62f228c.pharma.aventis.com 3.10.0-957.27.2.el7.x86_64 #1 SMP Tue Jul 9 16:53:14 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux [pu107896@xspl62f228c ~]\$ ll /apps/kafka/kafka lrwxrwxrwx. 1 root root 28 Jul  3 09:28 /apps/kafka/kafka -&gt; /apps/kafka/kafka_2.12-2.4.1 [pu107896@xspl62f228c ~]\$</pre>					
Configuration files correctly populated	date uname -a cd /apps/kafka/kafka/config cat zookeeper.properties cat server.properties   grep xspl62f228c	<ul style="list-style-type: none"> <li>- zookeeper.properties should contain all aliases as seen in the ansible screenshots</li> <li>- server.properties should refer to the server name in the current isd</li> </ul>	See below	Y	NA
<b>Evidence:</b>					

Step	Action	Expected	Evidence	Installation Verification OK? (Y/N/NA)	Anomaly Reference
<pre>[pu107896@xspl62f228c ~]\$ date Fri Aug 14 13:14:33 CEST 2020 [pu107896@xspl62f228c ~]\$ uname -a Linux xspl62f228c.pharma.aventis.com 3.10.0-957.27.2.el7.x86_64 #1 SMP Tue Jul 9 16:53:14 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux [pu107896@xspl62f228c ~]\$ cd /apps/kafka/kafka/config [pu107896@xspl62f228c config]\$ cat zookeeper.properties # dataDir=/apps/kafka/kafka/zookeeper/tmp # clientPort=2181 # maxClientCnxns=0 server.1=aws-kafka01p.pharma.aventis.com:2888:3888 server.2=aws-kafka02p.pharma.aventis.com:2888:3888 server.3=aws-kafka03p.pharma.aventis.com:2888:3888 clientPort=2181 dataDir=/apps/kafka/kafka/zookeeper tickTime=2000 initLimit=5 syncLimit=5 autopurge.snapRetainCount=3 autopurge.purgeInterval=72 [pu107896@xspl62f228c config]\$ cat server.properties   grep xspl62f228c advertised.host.name=xspl62f228c.pharma.aventis.com advertised.listeners=SASL_SSL://xspl62f228c.pharma.aventis.com:9093 listeners=SASL_SSL://xspl62f228c.pharma.aventis.com:9093 [pu107896@xspl62f228c config]\$ █</pre>					
KAFKA and ZOOKEEPER services Running	date uname -a systemctl status zookeeper systemctl status kafka	kafka.services and zookeeper.services running for more than 10 seconds	See below	Y	NA
<b>Evidence:</b>					

Step	Action	Expected	Evidence	Installation Verification OK? (Y/N/NA)	Anomaly Reference
		<pre>[pul07896@xspl62f228c config]\$ date Fri Aug 14 13:14:54 CEST 2020 [pul07896@xspl62f228c config]\$ uname -a Linux xspl62f228c.pharma.aventis.com 3.10.0-957.27.2.el7.x86_64 #1 SMP Tue Jul 9 16:53:14 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux [pul07896@xspl62f228c config]\$ systemctl status zookeeper ● zookeeper.service - Apache Zookeeper    Loaded: loaded (/usr/lib/systemd/system/zookeeper.service; disabled; vendor preset: disabled)    Active: active (running) since Fri 2020-07-03 09:41:41 CEST; 1 months 11 days ago      Main PID: 16559 (java)         Tasks: 59        Memory: 405.5M       CGroup: /system.slice/zookeeper.service               └─16559 /usr/local/openjdk-jre/bin/java -Xmx512M -Xms512M -server -XX:+UseG1GC -XX:MaxGCPauseMillis=20 -XX:InitiatingHeapOccupancyPercen... [pul07896@xspl62f228c config]\$ systemctl status kafka ● kafka.service - Kafka Broker    Loaded: loaded (/usr/lib/systemd/system/kafka.service; disabled; vendor preset: disabled)    Active: active (running) since Fri 2020-07-03 09:41:42 CEST; 1 months 11 days ago      Main PID: 17036 (java)         Tasks: 85        Memory: 944.9M       CGroup: /system.slice/kafka.service               └─17036 /usr/local/openjdk-jre/bin/java -Xmx1G -Xms1G -server -XX:+UseG1GC -XX:MaxGCPauseMillis=20 -XX:InitiatingHeapOccupancyPercent=35... [pul07896@xspl62f228c config]\$ █</pre>			