Configurazione SacerWS

Contents

1 Configurazione Jboss EAP 7.3

1.1 Versioni

Vers. Doc	Vers. SacerWS	Modifiche
1.0.0		Versione iniziale del documento

1.2 Datasource XA

1.2.1 Console web

`Configuration` > `Connector` > `datasources`

Scegliere **XA DATASOURCES** e premere

`Add`

Si apre un wizard in 3 passaggi 1. Aggiungere gli attributi del datasource: Nome=**SacerVersPool** e JNDI=**java:jboss/datasources/SacerVersDs** 2. Selezionare il driver **ojdbc8** (predisposto durante la configurazione generale di Jboss) e impostare **oracle.jdbc.xa.client.OracleXADataSource** come XA Data Source Class; 3. Impostare gli attributi della connessione, ad esempio *URL*

1.2.1.1 JBoss CLI

```
1 xa-data-source add --name=SacerVersPool --jndi-name=java:jboss/
    datasources/SacerVersDs --xa-datasource-properties={"URL"=>"jdbc:
    oracle:thin:@parer-vora-b03.ente.regione.emr.it:1521/PARER19S.ente.
    regione.emr.it"} --user-name=SACER --password=exit  --driver-name=
    ojdbc8 --max-pool-size=64 --spy=true --exception-sorter-class-name=
    org.jboss.jca.adapters.jdbc.extensions.oracle.OracleExceptionSorter
    --stale-connection-checker-class-name=org.jboss.jca.adapters.jdbc.
    extensions.oracle.OracleStaleConnectionChecker --valid-connection-
    checker-class-name=org.jboss.jca.adapters.jdbc.extensions.oracle.
    OracleValidConnectionChecker --statistics-enabled=true --use-ccm=
    true --use-fast-fail=true --validate-on-match=true --flush-strategy=
    FailingConnectionOnly --background-validation=false --min-pool-size
    =8 --enabled=true --allow-multiple-users=false --connectable=false
    --set-tx-query-timeout=false --share-prepared-statements=false --
    track-statements=NOWARN
```

1.2.2 Transaction service

Lo schema dell'applicazione ha bisogno delle seguenti grant su Oracle.

```
GRANT SELECT ON sys.dba_pending_transactions TO SACER;
GRANT SELECT ON sys.pending_trans$ TO SACER;
GRANT SELECT ON sys.dba_2pc_pending TO SACER;
GRANT EXECUTE ON sys.dbms_xa TO SACER;
```

La procedura è descritta nella documentazione standard di JBoss EAP 7.3

https://access.redhat.com/documentation/en-us/red_hat_jboss_enterprise_application_platform/7.3/html/configurat

1.3 Configurazione Servizio JMS

Per la configurazione del subsystem si rimanda alla documentazione generale di JBoss EAP 6.4 del ParER.
Una volta fatto è necessario impostare le risorse JMS.

1.3.1 Configurazione Risorse JMS e Nomi JNDI

1.3.1.1 Console web Configuration > Messaging > Destinations‘

Andare in `View` sul **default** quindi

`Queues/Topics > Queue`

Cliccare su

`Add`

e aggiungere le seguenti destinazioni

Name	JNDI
ElenchiDaElabQueue	java:/jms/queue/ElenchiDaElabQueue

1.3.1.2 JBoss CLI

```
jms-queue add --queue-address=ElenchiDaElabQueue --entries=[java:/jms/
    queue/ElenchiDaElabQueue]
```

1.3.2 Bean pool per gli MDB

1.3.2.1 Console web Configuration > Container > EJB 3 > BEAN POOLS‘

Aggiungere i seguenti Bean Pools

Name	Max Pool Size	Timeout	Timeout unit
coda-elenchi-da-elab-pool	3	5	MINUTES

1.3.2.2 JBoss CLI

```
/subsystem=ejb3/strict-max-bean-instance-pool=coda-elenchi-da-elab-pool
    :add(max-pool-size=5, timeout=5, timeout-unit="MINUTES")
```

1.4 Logging profile

1.4.1 JDBC custom handler

Assicurarsi di aver installato il modulo ApplicationLogCustomHandler (Vedi documentazione di configurazione di Jboss EAP 7.3).

Configurare un custom handler nel subsystem **jboss:domain:logging:1.5**.

```
<subsystem xmlns="urn:jboss:domain:logging:1.5">
    <!-- ... -->
    <custom-handler name="sacerws_jdbc_handler" class="it.eng.tools.
       jboss.module.logger.ApplicationLogCustomHandler" module="it.eng.
       tools.jboss.module.logger">
        <level name="INFO"/>
        <formatter>
            <named-formatter name="PATTERN"/>
        </formatter>
        <properties>
            <property name="fileName" value="sacerws_jdbc.log"/>
            <property name="deployment" value="sacerws"/>
        </properties>
    </custom-handler>
    <!-- ... -->
</subsystem>
```

I comandi CLI

```
/subsystem=logging/custom-handler=sacerws_jdbc_handler:add(class=it.eng
    .tools.jboss.module.logger.ApplicationLogCustomHandler,module=it.eng
    .tools.jboss.module.logger,level=INFO)
/subsystem=logging/custom-handler=sacerws_jdbc_handler:write-attribute(
    name=named-formatter,value=PATTERN)
/subsystem=logging/custom-handler=sacerws_jdbc_handler:write-attribute(
    name=properties,value={fileName=>"sacerws_jdbc.log", deployment=>"
    sacerws"})
```

Associare l'handler ai logger **jboss.jdbc.spy** e **org.hibernate**, sempre nel subsystem **jboss:domain:logging:1.5**.

```
<subsystem xmlns="urn:jboss:domain:logging:1.5">
    <!-- ... -->
    <logger category="jboss.jdbc.spy" use-parent-handlers="false">
        <level name="DEBUG"/>
        <filter-spec value="match(&quot;Statement|prepareStatement&quot;)"/>
        <handlers>
            <handler name="sacerws_jdbc_handler"/>
        </handlers>
    </logger>
    <logger category="org.hibernate" use-parent-handlers="false">
        <level name="WARNING"/>
        <handlers>
            <handler name="sacerws_jdbc_handler"/>
        </handlers>
    </logger>
    <!-- ... -->
</subsystem>
```

I comandi CLI

```
/subsystem=logging/logger=org.hibernate:add-handler(name=sacerws_jdbc_handler)
/subsystem=logging/logger=jboss.jdbc.spy:add-handler(name=sacerws_jdbc_handler)
```

1.4.2 Profilo di SacerWS

1.4.2.1 JBoss CLI

```
/subsystem=logging/logging-profile=SACERWS:add()
/subsystem=logging/logging-profile=SACERWS/periodic-rotating-file-handler=sacerws_handler:add(level=INFO,formatter="%d{yyyy-MM-dd HH:mm:ss,SSS} %-5p [%c] (%t) %s%E%n",file={path="sacerws.log",relative-to="jboss.server.log.dir"},suffix=".yyyy-MM-dd",append=true)
/subsystem=logging/logging-profile=SACERWS/size-rotating-file-handler=sacerws_tx_connection_handler:add(level=DEBUG,formatter="%d{yyyy-MM-dd HH:mm:ss,SSS} %-5p [%c] (%t) %s%E%n",file={path="sacerws_conn_handler.log",relative-to="jboss.server.log.dir"},append=true,max-backup-index=1,rotate-size="256m")
/subsystem=logging/logging-profile=SACERWS/logger=org.jboss.jca.core.connectionmanager.listener.TxConnectionListener:add(level=DEBUG,handlers=[sacerws_tx_connection_handler],use-parent-handlers=false)
/subsystem=logging/logging-profile=SACERWS/root-logger=ROOT:add(level=INFO,handlers=[sacerws_handler])
/subsystem=logging/logging-profile=SACERWS/logger=org.springframework:add(level=ERROR,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=org.opensaml:add(level=ERROR,use-parent-handlers=true)
```

```
/subsystem=logging/logging-profile=SACERWS/logger=es.mityc:add(level=INFO,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=it.eng.crypto:add(level=INFO,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.crypto:add(level=INFO,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.volume:add(level=INFO,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.ws:add(level=INFO,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.restWS:add(level=INFO,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.admin:add(level=INFO,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.web:add(level=INFO,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=it.eng.spagoLite:add(level=INFO,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.ws.utils.AvanzamentoWs:add(level=OFF,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=org.exolab.castor.xml.NamespacesStack:add(level=OFF,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=org.exolab.castor.xml.EndElementProcessor:add(level=ERROR,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=org.hibernate:add(level=ERROR,use-parent-handlers=true)
/subsystem=logging/logging-profile=SACERWS/logger=jboss.jdbc.spy:add(level=ERROR,use-parent-handlers=true)
```

```
<logging-profiles>
    <!-- ... -->
    <logging-profile name="SACERWS">
        <periodic-rotating-file-handler name="sacerws_handler" autoflush="true">
            <level name="INFO"/>
            <formatter>
                <pattern-formatter pattern="%d{yyyy-MM-dd HH:mm:ss,SSS} %-5p [%c] (%t) %s%E%n"/>
            </formatter>
            <file relative-to="jboss.server.log.dir" path="sacerws.log" />
            <suffix value=".yyyy-MM-dd"/>
            <append value="true"/>
        </periodic-rotating-file-handler>
        <periodic-size-rotating-file-handler name="sacerws_tx_connection_handler" autoflush="true">
            <level name="DEBUG"/>
            <formatter>
                <pattern-formatter pattern="%d{HH:mm:ss,SSS} %-5p [%c] (%t) %s%E%n"/>
            </formatter>
```

```
18              <file relative-to="jboss.server.log.dir" path="
                    sacerws_conn_handler.log"/>
19              <append value="true"/>
20              <max-backup-index value="1">
21              <rotate-size value="256m"/>
22          </periodic-size-rotating-file-handler>
23          <logger category="org.springframework" use-parent-handlers="
                true">
24              <level name="ERROR"/>
25          </logger>
26          <logger category="org.opensaml" use-parent-handlers="true">
27              <level name="ERROR"/>
28          </logger>
29          <logger category="es.mityc" use-parent-handlers="true">
30              <level name="INFO"/>
31          </logger>
32          <logger category="it.eng.crypto" use-parent-handlers="true">
33              <level name="INFO"/>
34          </logger>
35          <logger category="it.eng.parer.crypto" use-parent-handlers="
                true">
36              <level name="INFO"/>
37          </logger>
38          <logger category="it.eng.parer.volume" use-parent-handlers="
                true">
39              <level name="INFO"/>
40          </logger>
41          <logger category="it.eng.parer.ws" use-parent-handlers="true">
42              <level name="INFO"/>
43          </logger>
44          <logger category="it.eng.parer.restWS" use-parent-handlers="
                true">
45              <level name="INFO"/>
46          </logger>
47          <logger category="it.eng.parer.admin" use-parent-handlers="true
                ">
48              <level name="INFO"/>
49          </logger>
50          <logger category="it.eng.parer.web" use-parent-handlers="true">
51              <level name="INFO"/>
52          </logger>
53          <logger category="it.eng.spagoLite" use-parent-handlers="true">
54              <level name="INFO"/>
55          </logger>
56          <logger category="it.eng.parer.ws.utils.AvanzamentoWs"use-
                parent-handlers="true">
57              <level name="OFF"/>
58          </logger>
59          <logger category="org.exolab.castor.xml.NamespacesStack" use-
                parent-handlers="true">
60              <level name="OFF"/>
```

```
61          </logger>
62          <logger category="org.exolab.castor.xml.EndElementProcessor"
               use-parent-handlers="true">
63              <level name="ERROR"/>
64          </logger>
65          <logger category="org.exolab.castor.xml.EndElementProcessor"
               use-parent-handlers="true">
66              <level name="ERROR"/>
67          </logger>
68          <logger category="stdout" use-parent-handlers="true">
69              <level name="OFF"/>
70          </logger>
71          <logger category="org.jboss.jca.core.connectionmanager.listener
               .TxConnectionListener" use-parent-handlers="true">
72              <level name="DEBUG"/>
73              <handlers>
74                  <handler name="sacerws_tx_connection_handler"/>
75              </handlers>
76          </logger>
77          <root-logger>
78              <level name="INFO"/>
79              <handlers>
80                  <handler name="sacerws_handler"/>
81              </handlers>
82          </root-logger>
83      </logging-profile>
84      <!-- ... -->
85  </logging-profiles>
```

1.5 System properties

1.5.1 Console web

`Configuration > System properties`

Impostare le seguenti properties

Chiave	Valore di esempio	Descrizione
reportvf.aws.accessKeyId		Access Key id delle credenziali S3 per l'accesso all'object storage per i report di verifica firma.

Chiave	Valore di esempio	Descrizione
reportvf.aws.secretKey		Secret Key delle credenziali S3 per l'accesso all'object storage per i report di verifica firma.

1.5.2 jboss cli

```
/system-property=reportvf.aws.accessKeyId:add(value="<
    accessKeyId_object_storage>")
/system-property=reportvf.aws.secretKey:add(value="<
    secretKey_object_storage>")
```

1.6 Regole di Rewrite

Tutte le risorse esposte dal contesto */sacerws* **NON** devono essere accessibili ad eccezione di: - https://parer.regione.emilia-romagna.it/sacerws/VersamentoFascicoloSync ; - https://parer.regione.emilia-romagna.it/sacerws/VersamentoSync ; - https://parer.regione.emilia-romagna.it/sacerws/AggiuntaAllegatiSync ; - https://parer.regione.emilia-romagna.it/sacerws/VersamentoMultiMedia .

1.7 Object storage: configurazione AWS Access Key ID e Secret Access Key

Sono attivabili da applicazione, meccanismi di accesso a file depositati su object storage, nello specifico è possibile configuare alcune system properties che permettono all'applicazione di recuperare in modalità chiave/valore le credenziali di accesso necessarie per l'interazione con l'object storage secondo lo standard AWS S3 (https://docs.aws.amazon.com/cli/latest/userguide/cli-configure-files.html) La chiave da impostare dipende dalla configurazione presente su database, vedere nello specifico la tabella **DEC_CONFIG_OBJECT_STORAGE**, nella quale potranno essere configurate le chiavi presenti tra le system properties, se ne riporta di seguito un esempio:

```
batch

/system-property=sip-w.aws.accessKeyId:add(value="$accessKeyId")
/system-property=sip-w.aws.secretKey:add(value="$secretKey")

run-batch
```

nel caso specifico dello script sopra riportato, le chiavi interessate sono : **sip-w.aws.accessKeyId** e **sip-w.aws.secretKey**; rispettivamente configurate sulla tabella citata in precedenza.

Esempio di configuazione su database

ID_DEC_CONFIG_OB	ID_DEC_BACKEND	CHIAVE_OBJECT_STORAGE	VALORE_CONFIG	TIPO_OBJECT_STORAGE	USO_OBJECT_STORAGE	DESCRIZIONE_CONFIG_OB
1	2	ACCESS_KEY_ID_SIP	SYS_PROP w.aws.accessKeyId		WRITE_SIP	Nome della system property utilizzata per l'access key id per il bucket dei sip in sola scrittura
2	2	SECRET_KEY_SI	sip-	w.aws.secretKey	WRITE_SIP	Nome della system property utilizzata per la secret key per il bucket dei sip in sola scrittura

Nota: la FK (chiave esterna) legata al valore presente su colonna ID_DEC_BACKEND, dipende dalla configurazione presente su DEC_BACKEND.