
Configurazione SacerWS

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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.

```
1 GRANT SELECT ON sys.dba_pending_transactions TO SACER;  
2 GRANT SELECT ON sys.pending_trans$ TO SACER;  
3 GRANT SELECT ON sys.dba_2pc_pending TO SACER;  
4 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

```
1 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

```
1 /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**.

```
1 <subsystem xmlns="urn:jboss:domain:logging:1.5">
2   <!-- ... -->
3   <custom-handler name="sacerws_jdbc_handler" class="it.eng.tools.
      jboss.module.logger.ApplicationLogCustomHandler" module="it.eng.
      tools.jboss.module.logger">
4     <level name="INFO"/>
5     <formatter>
6       <named-formatter name="PATTERN"/>
7     </formatter>
8     <properties>
9       <property name="fileName" value="sacerws_jdbc.log"/>
10      <property name="deployment" value="sacerws"/>
11    </properties>
12  </custom-handler>
13  <!-- ... -->
14 </subsystem>
```

I comandi CLI

```
1 /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)
2 /subsystem=logging/custom-handler=sacerws_jdbc_handler:write-attribute(
   name=named-formatter,value=PATTERN)
3 /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**.

```
1 <subsystem xmlns="urn:jboss:domain:logging:1.5">
2   <!-- ... -->
3   <logger category="jboss.jdbc.spy" use-parent-handlers="false">
4     <level name="DEBUG"/>
5     <filter-spec value="match(&quot;Statement|prepareStatement&quot;
6       ;)"/>
7     <handlers>
8       <handler name="sacerws_jdbc_handler"/>
9     </handlers>
10  </logger>
11  <logger category="org.hibernate" use-parent-handlers="false">
12    <level name="WARNING"/>
13    <handlers>
14      <handler name="sacerws_jdbc_handler"/>
15    </handlers>
16  </logger>
17  <!-- ... -->
18 </subsystem>
```

I comandi CLI

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

1.4.2 Profilo di SacerWS

1.4.2.1 JBoss CLI

```
1 /subsystem=logging/logging-profile=SACERWS:add()
2 /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)
3 /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")
4 /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)
5 /subsystem=logging/logging-profile=SACERWS/root-logger=ROOT:add(level=
   INFO,handlers=[sacerws_handler])
6 /subsystem=logging/logging-profile=SACERWS/logger=org.springframework:
   add(level=ERROR,use-parent-handlers=true)
7 /subsystem=logging/logging-profile=SACERWS/logger=org.opensaml:add(
   level=ERROR,use-parent-handlers=true)
```

```
8 /subsystem=logging/logging-profile=SACERWS/logger=es.mityc:add(level=
  INFO,use-parent-handlers=true)
9 /subsystem=logging/logging-profile=SACERWS/logger=it.eng.crypto:add(
  level=INFO,use-parent-handlers=true)
10 /subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.crypto:
  add(level=INFO,use-parent-handlers=true)
11 /subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.volume:
  add(level=INFO,use-parent-handlers=true)
12 /subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.ws:add(
  level=INFO,use-parent-handlers=true)
13 /subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.restWS:
  add(level=INFO,use-parent-handlers=true)
14 /subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.admin:
  add(level=INFO,use-parent-handlers=true)
15 /subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.web:add(
  level=INFO,use-parent-handlers=true)
16 /subsystem=logging/logging-profile=SACERWS/logger=it.eng.spagoLite:add(
  level=INFO,use-parent-handlers=true)
17 /subsystem=logging/logging-profile=SACERWS/logger=it.eng.parer.ws.utils
  .AvanzamentoWs:add(level=OFF,use-parent-handlers=true)
18 /subsystem=logging/logging-profile=SACERWS/logger=org.exolab.castor.xml
  .NamespacesStack:add(level=OFF,use-parent-handlers=true)
19 /subsystem=logging/logging-profile=SACERWS/logger=org.exolab.castor.xml
  .EndElementProcessor:add(level=ERROR,use-parent-handlers=true)
20 /subsystem=logging/logging-profile=SACERWS/logger=org.hibernate:add(
  level=ERROR,use-parent-handlers=true)
21 /subsystem=logging/logging-profile=SACERWS/logger=jboss.jdbc.spy:add(
  level=ERROR,use-parent-handlers=true)
```

```
1 <logging-profiles>
2   <!-- ... -->
3   <logging-profile name="SACERWS">
4     <periodic-rotating-file-handler name="sacerws_handler"
5       autoflush="true">
6       <level name="INFO"/>
7       <formatter>
8         <pattern-formatter pattern="%d{yyyy-MM-dd HH:mm:ss,SSS}
9           %-5p [%c] (%t) %s%E%n"/>
10      </formatter>
11      <file relative-to="jboss.server.log.dir" path="sacerws.log"
12        />
13      <suffix value=".yyyy-MM-dd"/>
14      <append value="true"/>
15    </periodic-rotating-file-handler>
16    <periodic-size-rotating-file-handler name="
17      sacerws_tx_connection_handler" autoflush="true">
18      <level name="DEBUG"/>
19      <formatter>
20        <pattern-formatter pattern="%d{HH:mm:ss,SSS} %-5p [%c]
21          (%t) %s%E%n"/>
22      </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"
63         use-parent-handlers="true">
64         <level name="ERROR"/>
65     </logger>
66     <logger category="org.exolab.castor.xml.EndElementProcessor"
67         use-parent-handlers="true">
68         <level name="ERROR"/>
69     </logger>
70     <logger category="stdout" use-parent-handlers="true">
71         <level name="OFF"/>
72     </logger>
73     <logger category="org.jboss.jca.core.connectionmanager.listener
74         .TxConnectionListener" use-parent-handlers="true">
75         <level name="DEBUG"/>
76         <handlers>
77             <handler name="sacerws_tx_connection_handler"/>
78         </handlers>
79     </logger>
80     <root-logger>
81         <level name="INFO"/>
82         <handlers>
83             <handler name="sacerws_handler"/>
84         </handlers>
85     </root-logger>
86 </logging-profile>
87 <!-- ... -->
88 </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

```
1 /system-property=reportvf.aws.accessKeyId:add(value="<
  accessKeyId_object_storage>")
2 /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 configurare 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:

```
1 batch
2
3 /system-property=sip-w.aws.accessKeyId:add(value="$accessKeyId")
4 /system-property=sip-w.aws.secretKey:add(value="$secretKey")
5
6 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 configurazione su database

ID_DEC_CONFIG_OBJECT_STORAGE	ID_DEC_BACKEND	ACCESS_KEY_ID_SYS_PROP	WRITE_SIP	Nome della system property utilizzata per l'access key id per il bucket dei sip in sola scrittura
1	2	w.aws.accessKeyId		
2	2	SECRET_KEY_SY 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.