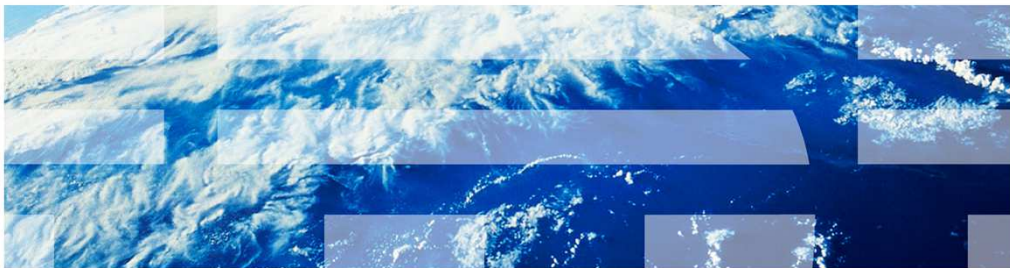




IBM WebSphere Application Server V8.5.0.2 Liberty Profile

z/OS hardware hybrid provider



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The z/OS® hardware hybrid provider is included in IBM WebSphere® Application Server V8.5.0.2 Liberty Profile.

z/OS hardware hybrid provider

- Support for the Z/OS hybrid provider JCEHYBRIDRACFKS
 - Crypto hardware provider that allows for failover to a RACF® key ring
- Requires Z/OS running Java 7 SR3

WebSphere Application Server V8.5.0.2 Liberty Profile can be configured to use the JCEHYBRIDRACFKS provider. This new provider is designed to check for a hardware crypto key or crypto information. The provider will fall back to the RACF key ring if the hardware is not configured or not available.

This feature is available for the z/OS operating system, running on Java 7 SR3 or higher.

JCEHYBRIDRACFKS keyring configuration

- The provider `com.ibm.crypto.ibmjcehybrid.provider.IBMJCEHYBRID` needs to be included in the `java.security` file, for example.

```
security.provider.1=com.ibm.jsse2.IBMJSSEProvider2
security.provider.2=com.ibm.crypto.ibmjcehybrid.provider.IBMJCEHYBRID
security.provider.3=com.ibm.crypto.hdwrCCA.provider.IBMJCECCA
security.provider.4=com.ibm.crypto.provider.IBMJCE
```

...

- Example Liberty Profile keystore configuration for a JCEHYBRIDRACFKS keyring

```
<keyStore id="defaultKeyStore" location="safkeyringhybrid:///MyKeyRing"
  type="JCEHYBRIDRACFKS" password="{xor}Lz4sLCgwLTs=" fileBased="false"
  readOnly="true" />
```

To use the JCEHYBRIDRACFKS provider, add the `com.ibm.crypto.ibmjcehybrid.provider.IBMJCEHYBRID` provider to the `java.security` file provider list.

In the keystore configuration, set the location parameter to the key ring URL. The value of the type attribute must be JCEHYBRIDRACFKS. The password attribute must be set to password. The fileBased attribute value is be set to false, and the readOnly attribute set to true.

Summary

In summary...

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- A new provider that allows the Liberty Profile to configure a JCEHYBRIDRACFKS key ring type on Z/OS running with Java 7 SR3 or higher.

A new provider, JCEHYBRIDRACFKS, is supported in WebSphere Application Server V8.5.0.2 Liberty Profile. This provider allows you to configure a key ring that supports hardware crypto with a failover to RACF key rings.

References

- IBM JCE Hybrid Provider Reference Guide
<http://www-03.ibm.com/systems/z/os/zos/tools/java/products/sdk7jcehybrid.html>

See the reference guide for additional information.



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