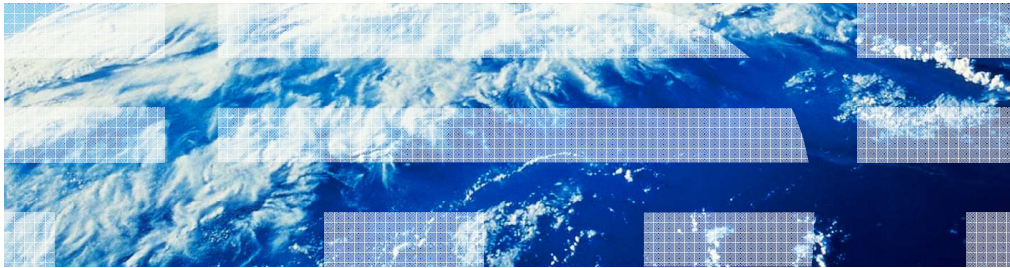

IBM WebSphere Application Server V8.5

Stop messaging engine and fail over



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This presentation describes support for a feature known as “Stop messaging engine and fail over” that is included in IBM WebSphere application server V8.5.

Stop messaging engine and failover

- Behavior before V8.5
 - In a highly available configuration on messaging engine database connectivity failure the HAManager terminates the JVM and fails over to the other messaging engine instance
- New behavior as of V8.5
 - On messaging engine database connectivity failure, the HAManager stops the messaging engine and disables that instance and fails over to the other messaging engine instance
 - When the messaging engine is stopped, the systemOut.log will show “CWSID0016I: Messaging engine <name> is in state stopped”

When there is a messaging engine database connectivity failure on a highly available system before WebSphere Application Server Version 8.5, the messaging engine reports a local error. The high availability manager checks whether the messaging engine is alive every two minutes - or whatever time has been configured on the `isAlivePeriod` parameter - and when it sees the local error, it terminates the JVM and fails over to the other messaging engine instance.

In V8.5, the HA manager stops the messaging engine instance, disables the messaging engine instance, and fails over to the other messaging engine instance.

If the messaging engine is not stopped within the `isAlivePeriod` - the default is two minutes - then the JVM is terminated.

Usage scenarios

Stop Messaging Engine and failover is used in the following scenarios.

Messaging Engine instance loses database connectivity in between

- A WebSphere Application Server administrator wants to stop the messaging engine and failover, so that the other applications running in JVM continue to run

This feature is mainly applicable in a highly available environment. If a messaging engine instance loses the database connectivity in between, the HA manager stops and disables the messaging engine and fails over to the other messaging engine instance. The other applications running in JVM continues to run because the JVM is not stopped.

Summary

This section contains a summary.

Summary

- Messaging engine instance is stopped and failover

On database connectivity failures, the messaging engine is stopped and HAManager triggers the failover to the standby instance. Since the JVM is not killed, all other applications running in that JVM continue to run.



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