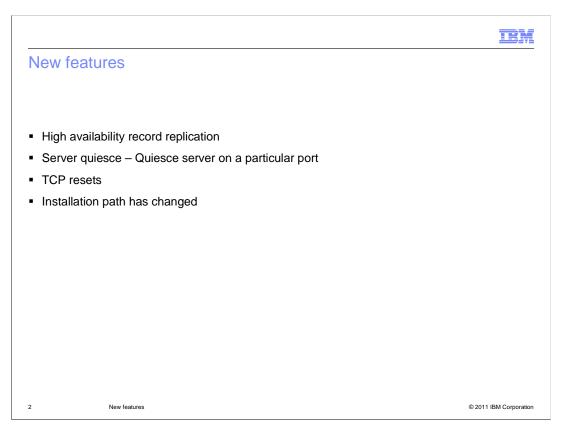


This presentation covers new features and changes in WebSphere® Edge Components Load Balancer V8.



These are the features that were implemented in "Load balancer for ipv4 and ipv6" for V8. These features were previously available in 'Load balancer for IPV4'.

IBM

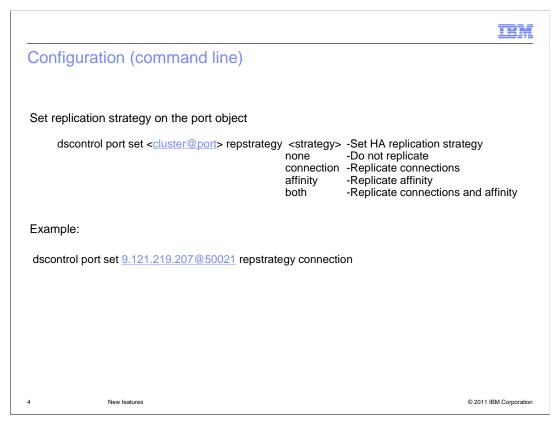
High availability record replication

- Allows high availability partners to share the state of connections and affinity
 - This allows existing connections and affinity to continue even after high availability partner has taken over.
- This enhances availability of the application and there is no interruption of service even when there is a takeover
- This feature existed in 'Load Balancer for IPV4' and is now available in 'Load Balancer for IPV4 and IPV6'
- This feature is valuable for long lived connections and is not of much value for short lived connections (like HTTP) as the overhead of constant replication is high

3 New features © 2011 IBM Corporation

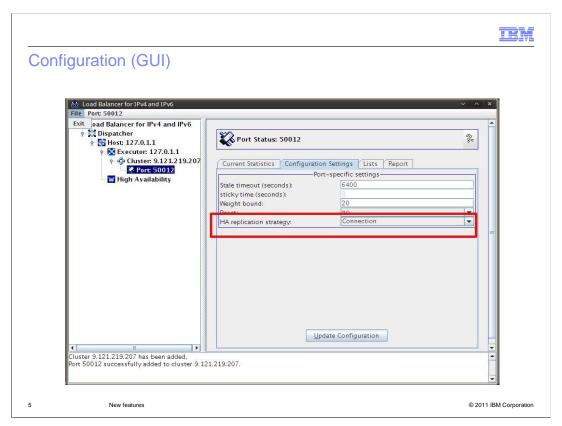
In V7, the high availability partners shared only heartbeats. They did not share connection or affinity information.

This feature allows the HA partners to share connection and affinity information so that existing affinity and connections can continue when a takeover happens.



This feature has to be enabled on the port object.

To enable logging related to this feature, run the command "lbcommand.sh 0 set logmask +HA"



This feature has to be enabled on the port object, as shown on this slide.



Quiesce server on a particular port

- The server quiesce command quiesces a server under all ports.
 - For example 'dscontrol manager quiesce 10.1.1.3', will stop forwarding traffic to server 10.1.1.3 for all ports.
- This functionality has been extended to quiesce a server on a particular port
 - For example 'dscontrol manager quiesce 10.1.1.5@80@10.1.1.3 will stop forwarding traffic to server 10.1.1.3 just for port 80. This is equivalent to server up/down feature in Legacy

6 New features © 2011 IBM Corporation

The "server up" and "server down" commands are not available in 'load balancer for ipv4 and ipv6'. Instead, the "server quiesce" command has been extended to quiesce a server under a given port.

This allows you to quiesce just the HTTP server but continue forwarding other traffic (for example DB2® traffic)



TCP resets

- This feature allows existing connections to backend servers be terminated when the server weight becomes zero.
- Normally, packets are forwarded to server even if its weight becomes zero (if there is an
 existing connection). If the server is down, client sees that server is not responding.
- When TCP reset is enabled, The connection is terminated when the server weight becomes zero. The client can take the next action instead of waiting for connection to time out
- The feature is set on the port object

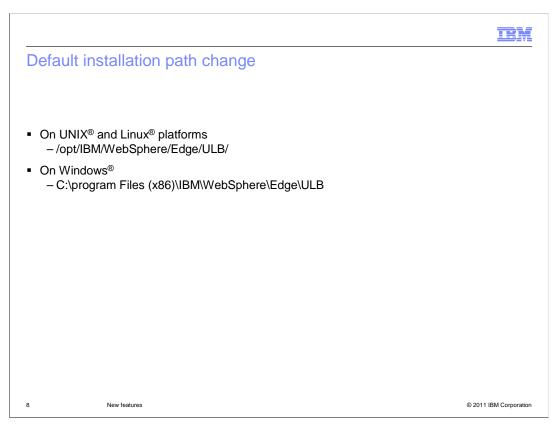
"dscontrol port add/set <cluster>@<port> reset [yes|no]"

7 New features © 2011 IBM Corporation

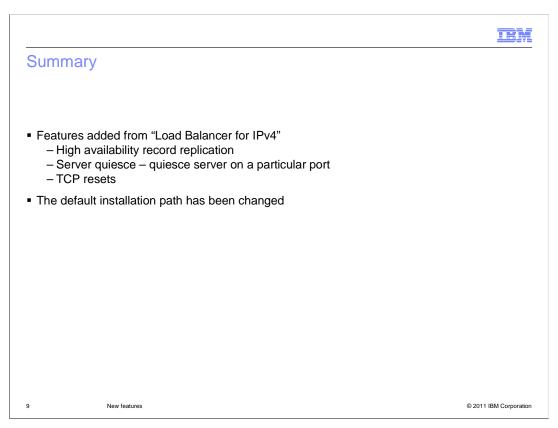
The "TCP reset" feature was previously available in 'Load Balancer for ipv4'.

Whenever load balancer detects that the server is down, a reset is sent to an existing connection. This will ensure that the connection is terminated early instead of waiting for timeout. The client establishes another connection instead of waiting for timeout.

To log messages related to the reset command, run "lbcommand.sh 0 set logmask +select"



The default installation paths have changed in this release.



To summarize, Three features that existed in 'Load balancer for IPV4' have been implemented in 'Load balancer for IPV4 and IPV6.'

IRM

Feedback

Your feedback is valuable

You can help improve the quality of IBM Education Assistant content to better meet your needs by providing feedback.

- Did you find this module useful?
- Did it help you solve a problem or answer a question?
- Do you have suggestions for improvements?

Click to send email feedback:

mailto:iea@us.ibm.com?subject=Feedback about WASv8 EDGE.ppt

10 New features © 2011 IBM Corporation

You can help improve the quality of IBM Education Assistant content by providing feedback.



Trademarks, disclaimer, and copyright information

IBM, the IBM logo, ibm.com, DB2, and WebSphere are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of other IBM trademarks is available on the web at "Copyright and trademark information" at http://www.ibm.com/legal/copytrade.shtml

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Windows, and the Windows logo are registered trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other company, product, or service names may be trademarks or service marks of others.

THE INFORMATION CONTAINED IN THIS PRESENTATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. WHILE EFFORTS WERE MADE TO VERIFY THE COMPLETENESS AND ACCURACY OF THE INFORMATION CONTAINED IN THIS PRESENTATION, IT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. IN ADDITION, THIS INFORMATION IS BASED ON IBM'S CURRENT PRODUCT PLANS AND STRATEGY, WHICH ARE SUBJECT TO CHANGE BY IBM WITHOUT NOTICE. IBM SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES ARISING OUT OF THE USE OF, OR OTHERWISE RELATED TO, THIS PRESENTATION OR ANY OTHER DOCUMENTATION. NOTHING CONTAINED IN THIS PRESENTATION IS INTENDED TO, NOR SHALL HAVE THE EFFECT OF, CREATING ANY WARRANTIES OR REPRESENTATIONS FROM IBM (OR ITS SUPPLIERS OR LICENSORS), OR ALTERING THE TERMS AND CONDITIONS OF ANY AGREEMENT OR LICENSE GOVERNING THE USE OF IBM PRODUCTS OR SOFTWARE.

© Copyright International Business Machines Corporation 2011. All rights reserved.

11 © 2011 IBM Corporation