TIBCO JasperReports® Server for AWS Marketplace Release Notes

Software Release 8.0.1

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Overview

TIBCO JasperReports® Server for AWS Marketplace is a commercial, open source reporting and analytics server for creating, sharing, and managing reports, dashboards, and data visualizations. It can run on its own as a standalone server, or it can be embedded into web applications by using comprehensive APIs and a flexible, open source architecture. JasperReports Server is designed with automatic detection functionality for connecting to Amazon Relational Database Service (Amazon RDS), Amazon Redshift, and Amazon EMR.

Use TIBCO JasperReports® Server for AWS Marketplace to implement or extend your deployment of JasperReports Server to the AWS Cloud. TIBCO JasperReports® Server for AWS Marketplace uses AWS CloudFormation templates to generate an automatically scaling, highly available infrastructure for your JasperReports Server deployment, complete with multi-tenant support.

New Features and Changes

This section describes new features and changes introduced in the following TIBCO JasperReports Server for AWS Marketplace (JRS for AWS) releases. This includes the specific changes made to the Amazon Machine Images (AMIs) and CloudFormation Templates (CFTs) for JRS for AWS.

Version 8.0.1

AMI Changes

AMI changes for JRS for AWS 8.0.1 include:
- Latest Amazon Linux 2 base AMI.
- Tomcat 9.0.54, Java 11, and PostgreSQL 12
- New approach to fetch Tomcat from Apache archive to remove dependency from Amazon repository:
    - Additional upgrade_tomcat.sh script is placed in /etc/jasperserver which can be used to downgrade/upgrade tomcat to desired version. Script expects one parameter which should be the tomcat tar file path, for example:
      `/etc/jasperserver/upgrade_tomcat.sh`
      https://archive.apache.org/dist/tomcat/tomcat-9/v9.0.52/bin/apache-tomcat-9.0.52.tar.gz
      This script can be called in the *cfn-init* part of templates as well, to include Tomcat changes at runtime.
- Included *cfn-bootstrap* package while building the AMI and removed install command from the templates.
- Implemented single init systemd service to perform all required boot time operations and configuration. Previously such operations were executed by separate 3 chkconfig services
- Modified service file for Tomcat to take values from an additional environment file if found. This feature is implemented for cluster templates to set the memory parameters for JasperReports Server (*-XX:MinRAMPercentage* and *-XX:MaxRAMPercentage*).
- For Cluster templates additional repository database check has been added, so if a db with the same name as the desired repository database is already present in RDS, then it will skip the DB creation and installation, including sample DBs.

Marketplace Template Changes

Marketplace CFT changes for JRS for AWS 8.0.1 include:
- Added additional section in cfn-init to create a new env file to be picked up by Tomcat service. This sets *MinRam* and *MaxRam* percentages to utilize the instance memory efficiently. Additional env variables can also be defined by the user if needed (only for cluster templates).
- Removed *cfn-bootstrap* package install step as now it's a part of AMI
- On cluster templates replaced Classic Load balancer with Application Load Balancer

- Replaced LaunchConfig with LaunchTemplate (AWS recommendation is to use LaunchTemplate)
- Restricted permission to only resources created as part of template deployment in comparison to previous open permissions to all. This will break the auto discovery feature of data sources for RDS and Redshift. If needed, the user can add those permissions in the role created to the resources. See the *JasperReports Server User Guide* for more information.

Quick Start Template Changes

Quick Start Cluster CFT changes for JRS for AWS 8.0.1 include:
- Added extra parameters for RDS security Group in existing infrastructure template and accordingly updated RDS and new infra templates. This will ensure the correct ingress rule to RDS will be created by the template.
- Replaced LaunchConfig with LaunchTemplate (AWS recommendation is to use launchTemplate).
- Added additional section in cfn-init to create a new env file to be picked up by Tomcat service. This sets *MinRam* and *MaxRam* percentages to utilize the instance memory efficiently. Additional env variables can also be defined in this by the user if needed.

Version 7.9.X

AMI Changes

AMI changes for JRS 7.9.x include:
- Latest Amazon Linux 2 base AMI
- Tomcat 9.0.54, Java 11 and PostgreSQL 11

Version 7.8.1

AMI Changes

AMI changes for JRS 7.8.1 include:
- Latest Amazon Linux 2 base AMI
- Tomcat 9.0.54, Java 11 and PostgreSQL 11
- New approach to fetch Tomcat from Apache archive to remove dependency from Amazon repository:
  - Additional upgrade_tomcat.sh script is placed in /etc/jasperserver which can be used to downgrade/upgrade tomcat to desired version. Script expects one parameter which should be the tomcat tar file path, for example:
    `/etc/jasperserver/upgrade_tomcat.sh`
    https://archive.apache.org/dist/tomcat/tomcat-9/v9.0.52/bin/apache-tomcat-9.0.52.tar.gz
    This script can be called in the *cfn-init* part of templates as well, to include Tomcat changes at runtime.
- Included *cfn-bootstrap* package while building the AMI and removed install command

from the templates.
- Implemented single init systemd service to perform all required boot time operations and configuration. Previously such operations were executed by separate 3 chkconfig services.

Version 7.5.2

AMI Changes

AMI changes for JRS 7.5.2 include:
- Latest Amazon Linux 2 base AMI (upgraded from Linux 1)
- Apache Tomcat 9.0.54, Java 11 and PostgreSQL 11
- New approach to fetch Tomcat from Apache archive to remove dependency from Amazon repository:
  - Additional upgrade_tomcat.sh script is placed in /etc/jasperserver which can be used to downgrade/upgrade tomcat to desired version. Script expects one parameter which should be the tomcat tar file path, for example:

    `/etc/jasperserver/upgrade_tomcat.sh`
    https://archive.apache.org/dist/tomcat/tomcat-9/v9.0.52/bin/apache-tomcat-9.0.52.tar.gz
    This script can be called in the *cfn-init* part of templates as well, to include Tomcat changes at runtime.
- Included *cfn-bootstrap* package while building the AMI and removed install command from the templates.
- Implemented single init systemd service to perform all required boot time operations and configuration. Previously such operations were executed by separate 3 chkconfig services.

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Product-Specific Documentation
The JasperReports® Server documentation is available at:
- https://docs.tibco.com/products/tibco-jasperreports-server (PDF only)
- http://community.jaspersoft.com/documentation (PDF and HTML)

The following documents for this product can be found on the TIBCO Documentation site:
- TIBCO JasperReports Server Release Notes
- TIBCO Jaspersoft Platform Support Guide
- TIBCO JasperReports Server Installation Guide
- TIBCO JasperReports Server Upgrade Guide
- TIBCO JasperReports Server User Guide
- TIBCO JasperReports Server Administrator Guide
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- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the TIBCO Support portal at https://support.tibco.com.
- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a username and password to log in to https://support.tibco.com. If you do not have a username, you can request one by clicking Register on the website.

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