Red Hat OpenStack Certification 7.31

Red Hat OpenStack Application and VNF Workflow Guide

For Use with Red Hat OpenStack 16
Abstract

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PART I. MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code and documentation. We are beginning with these four terms: master, slave, blacklist, and whitelist. Due to the enormity of this endeavor, these changes will be gradually implemented over upcoming releases. For more details on making our language more inclusive, see our CTO Chris Wright’s message.
CHAPTER 1. INTRODUCTION TO OPENSTACK APPLICATION AND VNF CERTIFICATION

Use this guide to certify your own applications, management applications or Virtualized Network Function (VNF) software for use with Red Hat OpenStack Platform (RHOSP) in a jointly supported customer environment.

1.1. UNDERSTAND RED HAT CERTIFICATION

The Red Hat Certification Program ensures compatibility of Red Hat’s partner’s hardware and software products with Red Hat Enterprise Linux, Red Hat OpenStack Platform, Red Hat Gluster Storage, Red Hat Enterprise Linux for Real Time, and other Red Hat software products. The program has three main elements:

- **Test suite**: Tests for hardware or software undergoing certification.
- **Red Hat Certification Ecosystem**: Explore and find certified products including Hardware, Software, Cloud and service providers.
- **A joint support relationship between Red Hat and the vendor whose hardware or software is undergoing certification.**

1.2. PROGRAM PREREQUISITES

You are expected to meet the following program prerequisites before proceeding with the RHOSP application certification workflow:

- To certify OpenStack applications, it is mandatory to have a Vendor Single Sign On (SSO) account and profile.
- You are expected to have a Product profile on Red Hat Connect for Technology Partners.
- You must complete the Align, Build and Certify (ABC) Workflow on Red Hat Connect for Technology Partners before beginning the certification process.

1.3. CERTIFICATION WORKFLOW

**Workflow of the certification program**

1. Create a certification request for a specific software or hardware component using redhat-certification.
2. Run the tests specified in the workflow guide and submit results using redhat-certification to Red Hat for analysis.
3. The certification team analyzes the test results and communicates any required retesting.
4. When all tests have favourable results, the certification is complete and the entry is made visible to the public on the external Red Hat Certification website at Red Hat Certification Ecosystem

**Know your roles and responsibilities**

The following diagram represents the roles & responsibilities of Red Hat and Partners in the certification process.
1.4. GET HELP AND GIVE FEEDBACK

If you experience difficulty with a procedure described in this documentation, Open a Support Case in the Red Hat customer portal.

The Red Hat customer portal offers the following services and information:

- Search or browse through technical support articles and solutions pertaining to Red Hat products
- Submit a support case to Red Hat Global Support Services (GSS)
- Access product documentation

**NOTE**

Personal emails are not tracked as a support mechanism and do not include a Response Time or Service Level Agreement.

Questions During Certification

During the certification process, you may need to ask or reply to a question about topics which affect a specific certification. These questions and responses are recorded in the **Additional Comments** section of the **Dialog Tab** of the certification entry.
WARNING

It is not within the scope of the certification workflow to resolve product defects and/or compatibility issues identified during testing. These issues can block a certification and might require resolution before the certification can proceed. Resolving these issues should be accomplished through your Engineering Partner Manager or other engineering engagements.

We Need Feedback!

If you see a way to make this guide better, or if you think of a way to improve the certification workflow, or program, we would love to hear from you! Submit a bug in Bugzilla. Try to be as specific as possible; include the section number and some of the surrounding text.

1.5. ADDITIONAL RESOURCES

- For more information about requirements and policies for Red Hat OpenStack Certification, see Red Hat OpenStack Application and VNF Certification Policy Guide
CHAPTER 2. RUNNING THE PRE-CERTIFICATION TESTS FOR RED HAT OPENSTACK PLATFORM APPLICATION

Before creating a Red Hat OpenStack Platform (RHOSP) application certification, you are encouraged to successfully execute the following certification tests on the overcloud compute node where the application is installed as a measure of compliance.

- **OpenStack Director test** (openstack/director)
- **OpenStack Supportability tests** (openstack/supportable)
- **System Report** (openstack/sosreport) test
CHAPTER 3. CREATING AND PUBLISHING CERTIFICATION FOR RED HAT OPENSTACK PLATFORM APPLICATION

3.1. CREATING A RED HAT OPENSTACK PLATFORM APPLICATION CERTIFICATION

Create a certification from the Red Hat certification web user interface (UI):

1. In your test server, launch Red Hat Certification web UI in a browser using the http://<machine-IP> link.

2. Provide your Red Hat account credentials enabled for certification in the Username and Password fields. Click Login.

3. Click the New Certification button.

4. From the Product drop-down list, select Red Hat OpenStack Platform. The Version and Platform value gets generated automatically. However, you can select the version, platform and RHEL version fields according to your requirement. Click Next.

5. Select the Vendor and Make items from the drop-down list. Click Next.

6. Provide the following relevant information in the fields:
   a. In the Component field, select the component that you want to include for certification. The Install Guide field is a mandatory field.

   IMPORTANT
   The Director Integration guide can be a text, URL, or a file.

   b. In the Director Integration field, choose Yes or No.

   c. If the Director Integration is selected as Yes, select the type of Director Template, and provide the details in the Director Instructions field.

7. Click Next.

   NOTE
   In case of VNF application select certification-vnf-component from the drop down list. Below steps are VNF certification specific only.

8. Choose the operating system from the given options. If your operating system is not in the given option, choose the option Other and type the name of the operating system in the required text field.

IMPORTANT

For configuration information required in the VNF test report, see, VNF Testing Configuration Report. Optionally, you can also upload the Testing Configuration Report from the Product Details tab once the RHOSP application certification test plan is created.

The RHOSP test plan is created for the certification testing.

10. In the Certification section the Progress tab displays the tests that have to be executed to generate the RHOSP application certification.

The following screenshot illustrates a certification test plan for VNF:

Figure 3.1. VNF Test Plan

3.2. PUBLISHING A RED HAT OPENSTACK PLATFORM APPLICATION CERTIFICATION

RHOSP application certification is generated if:

- The required tests are successfully executed
- The testing configuration report is reviewed by a Subject Matter Expert (SME).
  - In case if an SME does not find the testing configuration report according to the requirement, a follow up will be initiated from SME with the Partner.

The certificate is marked as Certified or Vendor Validated only when the SME verifies the testing configuration report.
CHAPTER 4. RECERTIFICATION WORKFLOW

To recertify a RHOSP application,

IMPORTANT

It is mandatory to create a new certification request for recertification.

1. See Creating a RHOSP Application Certification and create a new certification request.

2. Run the certification tests and proceed with the rest of the workflow as documented.