

# How to Publish an OCI Resource Manager Listing?

Publish a Resource Manager Listing

F17678-02

JUNE 2019

## DISCLAIMER

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

In this tutorial, you will learn how to publish your Resource Manager listing to the OCI Marketplace by performing some guided steps.

## PREREQUISITES

- You should have an OCI tenancy.
- Your OCI tenancy should be enabled as a partner tenancy.
- You should be an approved Marketplace publisher with access to Oracle Cloud Marketplace Partner Portal.
- Oracle Cloud Marketplace administrators should approve you to create application install packages of **OCI Orchestration Service** type.

## ACCESS MARKETPLACE PARTNER PORTAL

All the remaining steps need to be done via the Marketplace Partner Portal. You can access it at <https://partner.cloudmarketplace.oracle.com/partner/index.html>. You need to use your Oracle o.com account credentials for this.

## MANDATORY STACK GUIDELINES

The following guidelines are **MANDATORY** for stacks listed in Oracle Cloud Marketplace. Each guideline **MUST** be followed. Before being published, each *Stack* (Terraform Template) artifact will be validated against each of these guidelines.

1. The *Stack* artifact **MUST** be a zip file including the Terraform configuration file(s) and Schema file.
  - a. Zip **MUST** include at least 1 configuration file (.tf) in the root folder.
  - b. Zip **MUST** include the Schema file (.yaml) in the root folder.
  - c. Zip **MUST NOT** include a Terraform State file in the zip file. State files are managed by Oracle Resource Manage. Once customers launch a Stack, ORM creates and manage the resources, and state file become available for download only.
  - d. Zip **MUST NOT** include Terraform runtime configuration folder (.terraform) in the zip file.
2. Terraform configuration **MUST ONLY** use instance images that are already published Marketplace Images. It **MUST** have a hard-coded reference(s) to these Marketplace Image(s).
3. Binaries **MUST NOT** be downloaded from external repositories. All binaries and dependencies **MUST** be baked into the published Marketplace Image.
4. [Remote Exec Provisioner](#) **MUST ONLY** be run within the OCI Domain. It **MUST NOT** download files on a remote server.
5. 3rd party code or binaries **MUST NOT** be downloaded using cloud-init.
  - a. Cloud-init is a commonly-used startup configuration utility for cloud compute instances. It accepts configuration via user-data mechanisms specified as part of the metadata definition on `oci_core_instance` resource.
  - b. There are multiple user-data formats supported by cloud-init: <https://cloudinit.readthedocs.io/en/latest/topics/format.html>

- c. Regardless of the user-data format, cloud-init **MUST NOT** be used for downloading any 3rd party code/binary. All binaries required during the instance launch process (bootstrap), if not available within the image, should be downloaded by a process (script) baked as part of the image distribution, not injected via cloud-init (e.g. leveraging wget).
  - d. However, partners may have cloud-init template setup for customers to use in some particular scenarios, e.g. import a license key file, import a configuration file. In that case, they should provide a variable in their Terraform template code to enable customers to enter some data into the cloud-init building block, e.g., leveraging Terraform `template_file` data source.
6. Terraform Provider **MUST** be [Oracle Cloud Infrastructure Provider](#). Other cloud providers/3rd party application providers are not supported.
  7. If a Terraform Module is used, it **MUST** be loaded from local relative paths. It cannot be loaded from a remote repository.
  8. Terraform configuration **MUST** use [Instance Principal Authentication](#).

## RECOMMENDED STACK GUIDELINES

The following guidelines are **RECOMMENDED** for *Stacks* listed in Oracle Cloud Marketplace. Each guideline is considered a Best Practice that **SHOULD** be followed if possible.

1. The *Stack* artifact **SHOULD** enable customers to either create all the infrastructure resources or point to existing ones (network, storage, etc). Publishers **SHOULD** leverage Terraform Modules to create re-usable building blocks.
2. Naming conventions & formatting **SHOULD** be followed:
  - a. lower\_snake\_case **SHOULD** be used for all naming. This applies to variable names, resource names, module names, file names, display names, etc.
  - b. The resource or data source type **SHOULD NOT** be included in the name. In Terraform, resources and data sources are always referenced by ".". As such, there is no need to include the type in the name itself.
  - c. In OCI, "id" generally refers to a field that takes an OCID. As such, variables **SHOULD** use "id" when referring to OCID values (instead of using "ocid").
  - d. Variable names for OCI resources **SHOULD** typically use the same name as used for the Terraform resource.
  - e. Display names for OCI resources **SHOULD** typically use the same name as used for the Terraform resource.
  - f. When using a module, the naming of the input (variables) and the outputs **SHOULD** be exposed to the caller.
  - g. "terraform fmt" **SHOULD** be applied to all Terraform before checking in.

## CREATE AN ARTIFACT

To publish your *Resource Manager listing* to the Marketplace, you need to create an *Artifact*. A Marketplace artifact is a generic way to represent any application artifacts (such as Images and Terraform templates) that partners want to publish.

Follow the steps below:

1. Click **Artifacts** in the navigation bar on the left.

The Artifacts page displays information such as artifact name and other details related to the artifacts. The page also displays options to search, sort, view, create, edit, and delete artifacts.

2. Click **Create Artifact**.

3. In the Create Artifact page, enter the required information for each field.

- In the **Artifact Type** field, select the **Terraform Template** artifact type.
- In the **Artifact Name** field, enter a name for the artifact.
- In the **File** field, drop or select a Terraform zip file to upload. The supported file types are .zip and .tf files. Click **Create**. A new artifact will be created using the Terraform zip file, which can be associated to a Marketplace listing.

## MANDATORY APPLICATION LISTING GUIDELINES

The following guidelines are **MANDATORY** for Application Listings in Oracle Cloud Marketplace. Each guideline **MUST** be followed. Before being published, each Application Listing will be validated against each of these guidelines.

1. The App Icon **MUST** be a high quality 130x130 pixel jpg or png. It **MUST NOT** be blurred or stretched. Its file size **MUST** be 5 MB or smaller.
2. The App Name **MUST** be clear, concise, and free of spelling and grammar mistakes. It **MUST** have no line breaks.
3. The Headline **MUST** clearly state the application's purpose. It **MUST** be described in 2 lines or less and be free of spelling and grammar mistakes.
4. Font/Spacing on the Listing **MUST** be consistent.
5. All text **MUST** be free of spelling or grammar errors.
6. The Description **MUST** be comprehensive and capture the target audience/type of user and present why the Listing is valuable.
7. All links **MUST** point to the correct locations and open in a new tab or window.
8. Text included in icons, banners, screenshots or videos **MUST** be legible. Images **MUST NOT** be blurred or stretched.
9. Related Documents **MUST** provide consistent information for users to be able to
  - a. Launch an instance from Marketplace
  - b. Connect to the instance
  - c. Setup or start the application.

10. The Support section **MUST** contain accurate contact details for customer to engage partner support. These contact details **MUST** contain accurate phone or email.
11. The System Requirements **MUST** contain the list of required OCI components including Compute Shapes, Security Rules, IAM Policies, Block Volumes, Secondary VNICs, etc.
12. Terms of Use **MUST** be included in App Install Package and free of spelling or grammar errors. Terms of Use name **MUST** be in Title case. Links in Terms of Use **MUST** point to the correct locations and open in a new tab or window.]
13. App Install Package Version **MUST** match version specified in any other related image or text for this Package.
14. The user **MUST** be able to launch, connect, and configure the Application and related infrastructure using instructions included in the Usage and Related Documents sections.

## RECOMMENDED APPLICATION LISTING GUIDELINES

The following guidelines are **RECOMMENDED** for Application Listings in Oracle Cloud Marketplace. Each guideline is considered a Best Practice that **SHOULD** be followed if possible.

1. The App Name **SHOULD** be 36 characters or less.
2. The Release Notes **SHOULD** be specified as bullet points with proper line breaks.
3. The Related Documents **SHOULD** contain information on how to purchase a License if necessary.

## CREATE AN APPLICATION LISTING TO BUILD AN OCI INSTALL PACKAGE

You need to create an application listing to build an OCI install package. A listing allows you to describe your offering and market it to customers.

1. Sign in to Oracle Cloud Marketplace Partner Portal.
2. Click **Listings**.
  - a. If you haven't started a listing, click **Create Listing**. Enter information into the required fields in the header and then click **Save**. You must complete this step before you can continue to define the install package.
  - b. If you already started a listing, find the listing on the **Started** tab and then click **Edit**.
3. You need to follow the guidelines for creating a listing. See the *Guidelines for Publishing Listings* document.
4. Click the **App Install Package** tab.
  - a. To create a new install package, select the **OCI Orchestration Service** package type and click **Create Package**.
  - b. Enter the basic information for the install package such as version and description. The "version" field is shown to customers during the Install flow. In the **Terms of Use** field, select the terms of use for this app and install package.
  - c. Click **Save**.  
After the package is initially created, you can click **Edit** in the **Define Package Information** section to modify the basic information at any time.

- d. In the **Configure Terraform Template** section, click **Edit** to configure a resource. Select the artifact you just created and click **Save**.  
You can click **Edit** in the **Configure Terraform Template** section to modify the resource information at any time.

**Note:**

The above steps describe how you can create a plain Vanilla flavor of Terraform where the Terraform template does not refer to any Partner Image Catalog (PIC) Machine Image Oracle Cloud Identifiers (OCIDs). Another flavor of Terraform is the flavor where the Terraform template can refer to one or more PIC Machine Image OCIDs. If you want to refer to one PIC Machine Image OCID, then you will need to create an OCI image listing first (that points to the Machine Image in your tenancy), then wait for the listing to be published and the PIC Machine Image OCID to be available on the **Artifact Details** page. Once the PIC Machine Image OCID is available, edit your Terraform template zip file to replace the Source Image OCID with the PIC Machine Image OCID and then upload the updated Terraform template zip file when creating an artifact. For information about creating and publishing OCI image listings, see [Tutorial on How to Publish an OCI Image Listing](#).

Note that the PIC Machine Image OCID can be public or private.

## SUBMIT YOUR LISTING FOR APPROVAL

After you enter all the required information and provide whatever optional information you want, you're ready to submit your listing to Oracle for approval.

1. Click **Listings**.  
The **Started** tab displays all your listings that are started and in progress.
2. Scroll the page to find the listing you want to submit or search using the listing name in the **Search by Listing Name** text box and click  to find the listing you want to submit. You can also search by selecting a service type from the drop-down list at the top of the page.
3. Click  and then click **Submit** next to the listing.
4. Enter a comment in the **Submit Listing** window. This information is for the Oracle Cloud Marketplace administrators who will be reviewing and approving your listing. Tell us any additional information that will help us evaluate and approve your listing.
5. Click **Submit**.  
  
You'll get a message that your listing was submitted successfully.
6. Click **OK**.
7. Your listing moves from the **Started** tab to the **Submitted** tab. During the approval process, monitor the status of your submitted listing, check our progress, and respond to comments or questions that we post.

## MONITOR THE STATUS OF YOUR LISTING

1. Click **Listings**.
2. Click the **Submitted** tab.

3. Scroll the page to find the listing or search using the listing name in the **Search by Listing Name** text box and click  to find the listing. You can also search by selecting a service type from the drop-down list at the top of the page.
4. Check the status icon in the first column. Hover the cursor over the icon to view the status.

ICON	STATUS	DESCRIPTION
	Pending review	We haven't started to review the listing yet. Check back later for an update.
	Reviewing	We're in the process of reviewing the listing. We'll let you know if we have any questions or need additional information.
	Approved	We approved the listing. You can publish the listing to Oracle Cloud Marketplace at any time. Your listing isn't publicly visible on the marketplace until you click <b>Publish</b> .
	Rejected	We rejected the listing. You can click  and then click <b>View Comments</b> to learn why the listing was rejected. You can edit the listing, and then resubmit the listing for approval.

**Note:**

Monitor comments during the review and approval process. Find the listing on the **Submitted** tab, click  and then click **View Comments**. Oracle Cloud Marketplace administrators may enter requests for additional information; ask questions about your listing or your app; or communicate status updates.

## PUBLISH THE LISTING

Once you've received approval from Oracle, you can publish your listing.

1. Sign in to Oracle Cloud Marketplace Partner Portal.
2. Click **Listings**.
3. Click the **Submitted** tab.
4. Scroll the page to find the listing you want to publish or search using the listing name in the **Search by Listing Name** text box and click  to find the listing you want to publish. You can also search by selecting a service type from the drop-down list at the top of the page.

Listings with the Approved status icon (a green circle with a white check mark) are ready to publish. We have approved these listings for Oracle Cloud Marketplace.

5. Click  and then click **Publish**. The system prompts for confirmation.
6. Click **Publish**.

That's it. Your listing is available on Oracle Cloud Marketplace immediately.

Your listing moves from the **Submitted** tab to the **Published** tab. Use the **Published** tab to manage your published listings.

## ORACLE CORPORATION

### Worldwide Headquarters

500 Oracle Parkway, Redwood Shores, CA 94065 USA

### Worldwide Inquiries

TELE + 1.650.506.7000 + 1.800.ORACLE1

FAX + 1.650.506.7200

oracle.com

## CONNECT WITH US

Call +1.800.ORACLE1 or visit [oracle.com](http://oracle.com). Outside North America, find your local office at [oracle.com/contact](http://oracle.com/contact).

 [blogs.oracle.com/oracle](http://blogs.oracle.com/oracle)

 [facebook.com/oracle](http://facebook.com/oracle)

 [twitter.com/oracle](http://twitter.com/oracle)

## Integrated Cloud Applications & Platform Services

Copyright © 2019, Oracle and/or its affiliates. All rights reserved. This document is provided for information purposes only, and the contents hereof are subject to change without notice. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchantability or fitness for a particular purpose. We specifically disclaim any liability with respect to this document, and no contractual obligations are formed either directly or indirectly by this document. This document may not be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without our prior written permission.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group. 0619

Publish a Resource Manager Listing  
April 2019