

Oracle® Cloud

Using Oracle WebCenter Forms Recognition on Marketplace in Oracle Cloud Infrastructure



F96126-02
June 2024



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F96126-02

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Preface

This guide describes how to provision and administer Oracle WebCenter Forms Recognition 14c (14.1.1.0.0) on Marketplace in Oracle Cloud Infrastructure.

Audience

This guide is intended for users who want to create, manage, and use WebCenter Forms Recognition instances provisioned from Marketplace in Oracle Cloud Infrastructure.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Related Resources

The [documentation for Oracle WebCenter Forms Recognition](#) for is available from the Oracle Help Center.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Get Started with Oracle WebCenter Forms Recognition on Marketplace

Here's information about Oracle WebCenter Forms Recognition on Marketplace that will help you get started:

- [About Oracle WebCenter Forms Recognition on Marketplace](#)
- [About the License for Oracle WebCenter Forms Recognition on Marketplace](#)
- [About Roles and User Accounts](#)

About Oracle WebCenter Forms Recognition on Marketplace

Oracle WebCenter Forms Recognition on Marketplace is provided as a VM-based solution on Oracle Cloud Infrastructure.

Oracle WebCenter Forms Recognition on Marketplace is available as a Paid Marketplace offering. See [About the License for Oracle WebCenter Forms Recognition on Marketplace](#).

Oracle WebCenter Forms Recognition on Marketplace helps customers to provision/set up the environment in few clicks and enables to deliver WebCenter Forms Recognition solutions on cloud.

About the License for Oracle WebCenter Forms Recognition on Marketplace

Oracle WebCenter Forms Recognition on Marketplace is based on Oracle WebCenter Forms Recognition 14c (14.1.1). Oracle WebCenter Forms Recognition on Marketplace is available as a Paid offering:

- **Paid:** Use the following Oracle WebCenter Forms Recognition (Paid) listing to use Universal Credits pricing:
 - Oracle WebCenter Forms Recognition 14c (Paid)

See [Oracle Universal Credits](#).

About Roles and User Accounts

Oracle WebCenter Forms Recognition on Marketplace uses roles to control access to tasks and resources. A role assigned to a user gives certain privileges to the user.

Access to Oracle WebCenter Forms Recognition on Marketplace is based on the roles and users set up for the Oracle Cloud Infrastructure console. You need OCI Administrator role to provision WebCenter Forms Recognition.

For information about how to add user accounts in Oracle Cloud, see:

- [Add Users to a Cloud Account with Identity Cloud Service](#) in *Getting Started with Oracle Cloud*.

- [Managing Oracle Identity Cloud Service Users and Groups in the Oracle Cloud Infrastructure Console](#) in the Oracle Cloud Infrastructure documentation.

2

Create and View Oracle WebCenter Forms Recognition on Marketplace Instances

The information in this chapter will help you create and view Oracle WebCenter Forms Recognition on Marketplace instances.

- [Before You Begin](#)
 - [Sign in to Oracle Cloud Infrastructure Console](#)
 - [Prerequisites](#)
- [Provision WebCenter Forms Recognition Stack](#)

Before You Begin

Before you begin, you would need to complete the following tasks and prerequisites.

Sign in to Oracle Cloud Infrastructure Console

Complete the following steps to sign in to the Oracle Cloud Infrastructure console.

1. Go to <http://cloud.oracle.com>.
2. Enter your cloud account name and click **Next**.
3. Sign in to the Oracle Cloud Infrastructure console:
 - If your cloud account uses identity domains, sign in to the Oracle Cloud Infrastructure console as a user configured in Oracle Cloud Infrastructure Identity and Access Management (IAM).
Select the **default** domain.
 - If your cloud account does not use identity domains, sign in to the Oracle Cloud Infrastructure console as a user federated through Oracle Identity Cloud Service.
Under Single Sign-On (SSO) options, note the identity provider selected in the **Identity Provider** field and click **Continue**.
4. Enter the user name and password provided in the welcome email, and click **Sign In**.

The Oracle Cloud Infrastructure console is shown.

Prerequisites

You'll need to complete the following prerequisites before provisioning the WebCenter Forms Recognition stack.

- [System Requirements](#)
- [Generate SSH key pair](#)
- [Create a Compartment](#)
- [Create Database](#)

- [Create Vault Secrets](#)

After completing the above prerequisites, you can proceed to provision the WebCenter Forms Recognition stack.

System Requirements

You require access to the following services to use Oracle WebCenter Forms Recognition on OCI.

- Identity and Access Management (IAM)
- Compute, Network, Block Storage
- Vault, Key, Secret
- Resource Manager
- Database
- Load Balancer
- Tagging

Make sure you have the following minimum limits for the services in your Oracle Cloud Infrastructure tenancy, and if necessary, request for an increase of a service limit.

Service	Minimum Limit
Identity and Access Management (IAM) Policy	1
Compute Shape VM.Standard.E4.Flex or VM.Standard.E5.Flex	1
Virtual Cloud Network	1
Block Storage	250GB
Vault & Key	1
Secrets	4
Load Balancer	Flexible Load Balancer

In Oracle Cloud Infrastructure Vault (formerly known as Key Management), a standard vault is hosted on a hardware security module (HSM) partition with multiple tenants, and it uses a more cost-efficient, key-based metric for billing purposes. A virtual private vault provides greater isolation and performance by allocating a dedicated partition on HSM. Each type of vault has a separate service limit in your Oracle Cloud Infrastructure tenancy. The limit for secrets spans all the vaults.

See [Service Limits](#) in the Oracle Cloud Infrastructure documentation.

Generate SSH key pair

See [generate_ssh_key](#) for generating an SSH key pair.

Create a Compartment

If your tenancy does not already include a compartment for your Oracle WebCenter Forms Recognition on Marketplace instances, you can create a new one.

 **Note:**

To create a compartment, your administrator must first add the following policy for your group:

```
allow group groupName to manage compartments in tenancy
```

To create a compartment in Oracle Cloud Infrastructure:

1. [Sign in to the Oracle Cloud Infrastructure Console](#).
 2. Open the navigation menu and click **Identity & Security**. Under **Identity**, click **Compartments**. A list of the existing compartments in your tenancy is displayed.
 3. Click **Create Compartment**.
 4. Enter the following:
 - Name: Specify a name. For example, `wfr-compartment`. Restrictions for compartment names are: Maximum 100 characters, including letters, numbers, periods, hyphens, and underscores. The name must be unique across all the compartments in your tenancy.
 - Description: A friendly description.
 5. Click **Create Compartment**.
 6. Once the compartment is created, if you are not an administrator, ask your administrator to grant the following manage and use permissions in the compartment:
 - a. Navigate to Identity and Security, Policies, and then Create Policies.
 - b. To allow a non-administrator to execute the stack, create an IAM group called **wfr** and then create a policy with the following statements.
 - `allow group wfr to manage instance-family in compartment wfr-compartment`
 - `allow group wfr to manage virtual-network-family in compartment wfr-compartment`
 - `allow group wfr to manage volume-family in compartment wfr-compartment`
 - `allow group wfr to manage load-balancers in compartment wfr-compartment`
 - `allow group wfr to manage orm-family in compartment wfr-compartment`
- where `wfr` is the group name and `wfr-compartment` is the compartment name.

 **Note:**

You can use any name (**wfr** and **wfr-compartment** are examples).

Create Database

You'd need a new DB system only if you want to provision a new database.



Note:

Otherwise, you can use an existing database too.



Note:

Currently, only the Oracle Base Database Service is supported. Support for other versions will be provided in upcoming releases. For any additional questions, contact the Oracle Support team.

Complete the following to create a new DB system:

- [Create VCN](#)
- [Create a New DB System](#)

Create VCN

1. Log in to OCI Console, navigate to Networking, then to Virtual Cloud Networks.
2. Click **Create VCN via Wizard**.
3. Click **Start VCN Wizard**.
4. **VCN name:** Provide a name.
5. **Compartment:** Specify the compartment in which the VCN needs to be created.
6. **VCN IPv4 CIDR block:** Specify IPv4 CIDR block (for example, 10.0.0.0/16).
7. Select the **Use DNS hostnames in this VCN** check box.
8. In the Configure public subnet and Configure private subnet sections, specify the correct CIDR blocks and click **Next**.
9. Make sure to create the necessary gateways such as Internet gateway, NAT gateway, and Service gateway.
10. Click **Create**.

The VCN is created.

Create a New DB System

1. Create a new DB system in [the VCN you created earlier](#).
2. Make a note of the SSH keys used for the DB system creation. This private SSH key will be added to the vault's secret later.

 **Note:**

Ensure to provide a DB System SSH private key without a passphrase as passphrase is not allowed.

- a. Log in to the console.
- b. Click **Oracle Database**.
- c. Click **Oracle Base Database Service** and then click **Create DB Systems**.
- d. Provide the following parameters:
 - Select a Compartment Name: Choose the appropriate compartment name.
 - Name your DB system: Specify a suitable name.
 - Select an availability domain: Choose AD1. You can choose any AD but make sure that WebCenter Forms Recognition and DB are in the same AD.
 - Configure shape: AMD VM Standard E4 Flex
 - Configure storage: 1 TB
 - Configure the DB system: The total node count is 2 and Oracle Database software edition is Enterprise Edition Extreme Performance.
 - Add SSH keys: Upload the public SSH key you created in [the first step](#). You can either reuse the keys generated in [the first step](#) or you can generate a new pair of keys too for database instances.
 - License: Choose the appropriate license.
 - Virtual cloud network: Choose [the VCN you created earlier](#).
 - Client subnet: Select (either private or public subnet as needed) from the drop-down list.
 - Hostname prefix: Choose an appropriate name.
 - Database name: Specify a name for your database. Click **Next**.
 - Database image: Oracle Database 19c.
 - PDB Name: pdb1
 - Create administrator credentials: Specify 'sys' and an appropriate password.
 - Backup destination: Object Storage
 - For remaining input fields: Select the default values.
- e. Click **Create DB System** and wait for the DB provisioning to be completed before you proceed to the next step.

Create Vault Secrets

1. Log in to the OCI console and search for *Vault*, and then create a vault app.
 - a. Click **Create Vault**.
 - b. Select [the compartment you created earlier](#)
 - c. Provide a name and click **Create Vault**.

- Click the vault app you created earlier. Create a master encryption key by specifying the compartment, protection mode, name, algorithm, length, and so on in the Create Key section.
- Click **Secrets** on the left side and start adding secrets by specifying the compartment, name, key, secret type template, secret contents, and so on in the Create Secret section.

Secret Name	Secret Description	Comment
compute-instance-password	Secret for WebCenter Forms Recognition Compute Instance Password	The Secret Contents field should be populated with the password value for WebCenter Forms Recognition Compute Instance. The Windows compute instance password must comply with Microsoft's password policy (but the password length that is allowed is 12 to 14 characters).
db-system-sys-password	Secret for DB System SYS Password	SYS user password of DB created in the Create a New DB System section should be used in the Secret Contents field.
db-system-ssh-private-key	Secret for DB System SSH private key	The Secret Contents field should be populated with the private key value that was used to create DB in the Create a New DB System section.
wfr-schema-password	Secret for WebCenter Forms Recognition schema password.	Example: OCI#db#456789123 The password needs to meet the following password policy: <ul style="list-style-type: none"> The password must start with a letter. The password must contain at least two digits. The password must contain at least two uppercase letters. The password must contain at least two lowercase letters. The password must contain at least two special characters from the set [\$_#_]. The password must be at least 15 characters long.

Provision WebCenter Forms Recognition Stack

You can provision Oracle WebCenter Forms Recognition on Marketplace in a selected compartment in Oracle Cloud Infrastructure.

To provision Oracle WebCenter Forms Recognition on Marketplace:

- Navigate to the WebCenter Forms Recognition listing on Marketplace by direct URL or by browsing in Oracle Cloud Infrastructure.

Using direct URL:

- In your browser, enter https://cloudmarketplace.oracle.com/marketplace/en_US/homePage.jspx?tag=WebCenter+Forms+Recognition.

The Marketplace listings for WebCenter Forms Recognition are displayed.

- Click the title of the listing you want to use. The landing page of that listing is displayed.
- Click **Get App**.
- Select your Oracle Cloud Infrastructure region and click **Sign In**.
- [Sign in to the Oracle Cloud Infrastructure Console](#).

By browsing:

- a. [Sign in to the Oracle Cloud Infrastructure Console](#).
 - b. Open the navigation menu and click **Marketplace**. Under **Marketplace**, click **All Applications**.
 - c. In the Marketplace search field, enter WebCenter Forms Recognition. The Marketplace listings for WebCenter Forms Recognition are displayed.
 - d. Click the title of the listing you want to use and review the information on the **Overview** page.
2. Accept the terms and restrictions, and then click **Launch Stack**. The Create Stack wizard is displayed.
 3. Provide information about the stack for the instance.

a. Stack information:

- Enter name and description.
- **Create in Compartment:** Select the compartment.
- **Terraform version:** Specify the Terraform version and click **Next**.

b. Configure variables:

Stack Configuration

- **Resource Name Prefix:** Enter a prefix (for example, WFR). The name of all compute and network resources will begin with this prefix. It must begin with a letter and it can contain only letters or numbers.

Virtual Cloud Network

- **Network Compartment:** Select [the compartment you created earlier](#).
- **Network:** Select [the VCN you created earlier](#).

c. Database Configuration:

- **Database Strategy:** Select the type of database to use for provisioning. The supported databases are: Database System and Autonomous Transaction Processing Database.

If you selected **Autonomous Transaction Processing Database** as the Database Strategy, then complete the following that are displayed:

- Select the value for **Autonomous Database compartment**.
- Select the value for **Autonomous Database**.
- **Autonomous Database Admin Password Secret Compartment:** Choose the compartment that holds the secret for the Autonomous Database Admin Password.
- **Secret for Autonomous Database Admin Password:** Select the secret for Autonomous Database Admin Password.

If you selected **Database System** as the Database Strategy, then complete the following that are displayed:

- Select the value for **DB System Compartment**.
- Select the value for **DB System OCID**.
- **PDB name:** Provide the PDB name of the DB system.
- Select the value for **DB System Network Compartment**.

- Select the value for **DB System VCN**.
 - **DB System PDB User**: Leave the value 'sys' as is. Do not change this user name.
 - **DB System Password Secret Compartment**: Choose the compartment that holds the secret for the DB system password.
 - **Secret for DB System Password**: Select the secret for DB system password. When defining the secret key, you must have specified a user friendly name for each secret. Use the same name here so that it is easy.
 - **DB System SSH Private key Secret Compartment**: Choose the compartment that holds the secret for the DB system SSH private key.
 - **Secret for DB System SSH Private key**: Select the secret for DB System SSH private key.
- d. WebCenter Forms Recognition Compute Instance:
- **Compute Shape**: Select the appropriate compute shape.
 - **OCPU count**: Select the OCPU count. The default value is 2.
 - **WebCenter Forms Recognition Subnet CIDR**: Provide the value for WebCenter Forms Recognition subnet CIDR. For example, 10.0.3.0/24.
 - **WebCenter Forms Recognition Compute Instance Secret Password Compartment**: Choose the compartment that holds the password secret for the WebCenter Forms Recognition Subnet Compute Instance.
 - **Secret for WebCenter Forms Recognition Compute Instance Password**: Select the secret that contains the password for the Windows compute instance.
- e. Load Balancer:
- Provide the value for **Load Balancer Subnet CIDR**. For example, 10.0.4.0/24.
 - Provide the value for **Minimum Bandwidth for Flexible Load Balancer**.
 - Provide the value for **Maximum Bandwidth for Flexible Load Balancer**.
- f. WebCenter Forms Recognition Secrets:
- **WebCenter Forms Recognition Schema Password Secret Compartment**: Choose the compartment that holds the secret for the WebCenter Forms Recognition schema password.
 - **Secret for the WebCenter Forms Recognition Schema Password**: Select the secret for the WebCenter Forms Recognition schema password.

Click **Next**. Review all the configuration variables and then select the **Run apply** check box under **Run apply on the created stack** section. Click **Create**.

If everything goes as expected, then navigate to the WebCenter Forms Recognition stack and click the **Application Information** tab. Under the Output section, you'll see the end points for the services.

- `webcenter_forms_recognition_endpoint = "https://<Load Balancer-IP>:443/WFRSCMWeb"`
- `webcenter_forms_recognition_web_verifier_endpoint = "https://<Load Balancer-IP>:443/WebVerifier"`

 **Note:**

If provisioning fails, connect to Windows RDP and check the following logs:
C:\Program Files\Cloudbase Solutions\Cloudbase-Init\log and
C:\u01\data\domains\logs.

To navigate to the WebCenter Forms Recognition stack:

- In the side menu, select **Developer Services, Resource Manager**, and then **Stacks**.
- Select your compartment and click the name of the WebCenter Forms Recognition stack you created.

About Connecting to Windows VM using Bastion and RDP

See [Creating a Port Forwarding Session in Bastion](#) and [Connecting to a Port Forwarding Session](#) for information.

To Update the Administrator Password in the WebCenter Forms Application

1. Connect to the Windows VM by following the steps in [About Connecting to Windows VM using Bastion and RDP](#).
2. Open the WebCenter Forms Recognition Designer Application.
3. Load the AP Project: C:\AP_Projects\AP Project 3520\Global\AP Packaged Project_3520.sdp
4. Open **Options**, then **Users, Groups and Roles**.
5. Go to the **Change Password** tab. Provide old and new passwords to update the password. Keep the **Update password in Database** check box selected.
6. Click **Apply**. A confirmation pop-up dialog indicating that the password has been changed will show up. Click **OK** in the pop-up dialog to continue.
7. Another pop-up dialog asking if you want to save your current project file will show up. Click **Yes** and close the **WebCenter Forms Recognition Designer** application.
8. Log in to the [WebCenter Forms Recognition endpoints](#) with the new password to confirm that the password change has completed successfully.

If something goes wrong or if for any reason you want to do a clean-up of all the resources that were provisioned as part of the WebCenter Forms Recognition deployment, use **Destroy Job** to do the clean-up.

Destroy Stack

First step: Complete the following steps to execute the destruct script on the Windows VM:

1. Connect to the Windows VM by following the steps in [About Connecting to Windows VM using Bastion and RDP](#).
2. Open PowerShell (without administrator) terminal.
3. Execute the following command to trigger the destruct script: `python C:\u01\scripts\python\provisioning\destruct.py`

Second step: On the Stack details page (from the OCI console), use **Destroy** and **Delete Stack** options for the stack.