# Using Oracle® Cloud Infrastructure Object Storage Classic with Oracle® Compute Cloud Service - Dedicated Compute Capacity - SPARC Model 300

Oracle Cloud Infrastructure Object Storage Classic can be used with the Oracle Compute Cloud Service – Dedicated Compute Capacity – SPARC Model 300 service to backup and restore data. Data from the SPARC Model 300 can be uploaded and downloaded to the Oracle Cloud Infrastructure Object Storage Classic service quite easily.

The connectivity between these two services is routed within the Oracle Cloud Infrastructure - Classic data centers, although a non-persistent, outbound IP address must be set up on a compute instance within the SPARC Model 300.

This article describes how to set up the route to Oracle Cloud Infrastructure Object Storage Classic, gain access to the storage service, see what files and containers that currently exist in the storage service, and how to download and upload files from Oracle Cloud Infrastructure Object Storage Classic from the SPARC Model 300.

## Requirements

These are the requirements to use Oracle Cloud Infrastructure Object Storage Classic with the SPARC Model 300:

- You must have a subscription for both the SPARC Model 300 and Oracle Cloud Infrastructure Object Storage Classic.
- (Highly recommended) Have both services located within the same data center region. This means if you have a SPARC Model 300 in Chicago, ensure that the Oracle Cloud Infrastructure Object Storage Classic service is also located in Chicago. This co-location provides better bandwidth and network response times between services.
- Acquire a file transfer utility to manage objects within Oracle Cloud Infrastructure Object Storage Classic from the SPARC Model 300 compute nodes (covered in this article).

## Configuring the Service

The following sections describe how to configure the your SPARC Model 300 service so that you can use the Oracle Cloud infrastructure Object Storage Classic service:



### ▼ Configure Network Access for the SPARC Model 300

Use this task to configure network access for the SPARC Model 300 VM IP addresses that will be used to access the Oracle Cloud infrastructure Object Storage Classic service.

1. **Open a Service Request (SR) under Oracle SPARC Compute Service.**

   For details, refer to Create a Service Request at: https://docs.oracle.com/cd/E78370_01/html/E74671/createservicerequest.html

2. **Provide the following information in the SR:**

   Please configure an outbound NAT rule using an address from the outbound public IP address pool with the following:

   - Internal IP address from the Customer Virtual Machine Subnet range. This information should be included in the Welcome Letter received when the SPARC Model 300 service was activated.
   - Allow traffic over port 443.
   - Trusted access to (specify the URL of the Object Storage Classic endpoint). For example: `usoracle`*XXXX*`.storage.oraclecloud.com`.

## Download the Oracle File Transfer Manager Utility

The Oracle provided file transfer utility, called *Oracle Cloud Infrastructure Object Storage Classic File Transfer Manager CLI* (FTM CLI), enables you to upload and download files to the Oracle Cloud Infrastructure Object Storage Classic service.

The utility is a cross-platform Java-based command line tool that is used to upload and download objects and containers in the Oracle Cloud Infrastructure Object Storage Classic. The utility requires Java SE Runtime Environment 7 or later. The SPARC Model 300 compute nodes come with Java SE Runtime Environment 8 pre-installed, so no additional installations of Java are required.

When downloaded, the FTM CLI is a small 3.4 MB zip file.

1. **Go to:**

   http://www.oracle.com/technetwork/topics/cloud/downloads/index.html#FTMCLI

2. **Click Download File Transfer Manager CLI.**

3. **When prompted, provide your Oracle account information.**

   If you don't already have an account, create one.

4. **Accept the OTN license agreement.**

5. **Click on the link at the bottom of the page.**

## Transfer and Unpack the FTM CLI Utility

1. **Transfer the FTM CLI zip file to one of your SPARC Model 300 compute nodes.**
2. **Unzip the file.**

   For example:

```
# unzip ftmcli_vversion_no.zip
```

These files are extracted to a `ftmcli-v2.x.x` directory:

- `ftmcli.jar` – Used for managing files between the Oracle Cloud Infrastructure Object Storage Classic service.
- `ftmcli.properties` – A sample properties file.
- `README.txt` – Provides a brief description of the utility.

3. **Go to the `ftmcli-v2.x.x` directory.**

```
# cd path_dir/ftmcli-v2.x.x/
```

# Using the FTM CLI Utility

The FTM CLI utility can be used to upload or delete objects (or containers), download objects from specific containers, restore objects, as well as many more actions within Oracle Cloud Infrastructure Object Storage Classic service.

The following sections provide information on how to get started using the FTM CLI utility:

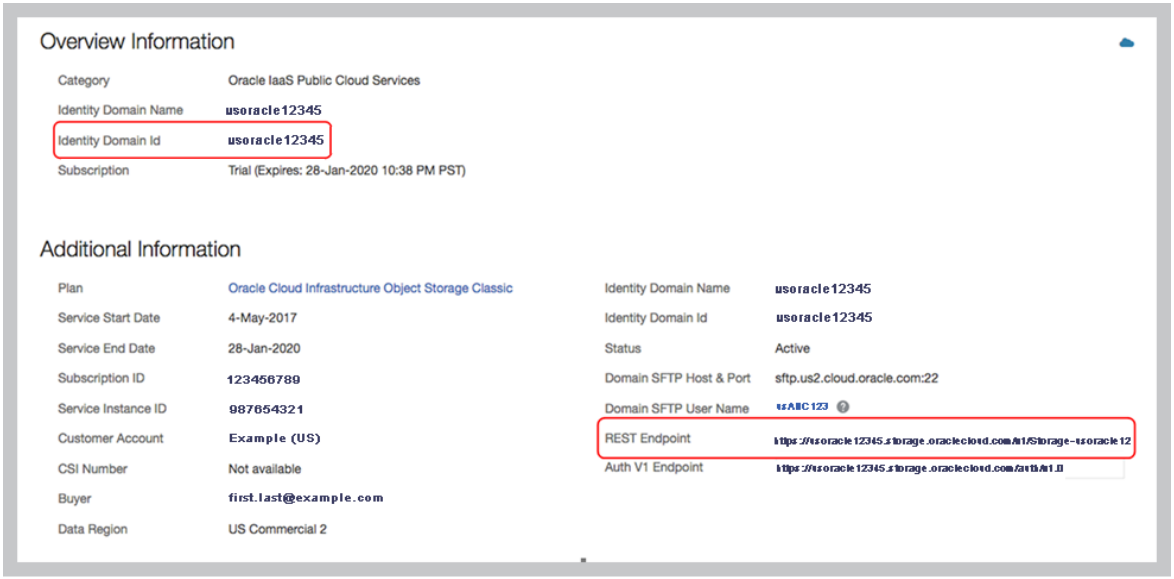

- "Collect Required Information" on page 3
- "Perform Common FTM CLI Commands" on page 4


## Collect Required Information

Details from your Oracle Cloud Infrastructure Object Storage Classic service are required to run FTM CLI commands. Typically, this information is a shortened REST endpoint, user account that has read or read/write access to the Oracle Cloud Infrastructure Object Storage Classic service, and the service identity domain.

1. **Collect the required information from the Service Details page for your Oracle Cloud Infrastructure Object Storage Classic service.**

Example of the Service Details page:




2. **Make note of the Identity Domain Id number.**

   In the examples in this article, replace *ID_DOMAIN* with your Identity Domain Id.

3. **Make note of the REST Endpoint URL.**

   When you use the FTM CLI utility (described later), only a portion of this value is used. For example, for this entire URL, only the portion in bold is used:

   **`https://example1234.storage.oraclecloud.com`**`/v1/Storage-example1234`,

## Perform Common FTM CLI Commands

Examples provided in this section list the containers, upload a test file to a test container, and then download the test file from the test container.

The commands described in this article are just some of the features of the FTM CLI utility. For further details of the FTM CLI utility, visit:

`https://docs.oracle.com/en/cloud/iaas/storage-cloud/csclr/preface.html`

Some other actions such as creating containers, must be performed using the Oracle Cloud Infrastructure Object Storage Classic service console.

1. **List Containers and Objects.**

   This step shows how to use the `list` command.

**Syntax:**

**java -jar ftmcli.jar list -U** *USER* **-A** *REST_ENDPOINT* **-S Storage -I** *ID_DOMAIN*

**Example:**

```
# java -jar ftmcli.jar list -U john.doe@example.com -A https://usoracle12345.storage.oraclecloud.com
 -S Storage -I usoracle12345
```

2. **View objects within containers.**

   Use the `list` command with the container name.

   **Syntax:**

   **java -jar ftmcli.jar list** *CONTAINER_NAME* **-U** *USER* **-A** *REST_ENDPOINT* **-S Storage -I** *ID_DOMAIN*

   **Example:**

   ```
   # java -jar ftmcli.jar list test_container -U john.doe@example.com -A https://usoracle12345.storage.
   oraclecloud.com -S Storage -I usoracle12345
   ```

3. **Upload Objects.**

   To upload objects to containers in Oracle Cloud Infrastructure Object Storage Classic service, use the `upload` command. In this example, the `test_file` object is uploaded from the `test_container` container.

   **Syntax:**

   **java -jar ftmcli.jar upload** *CONTAINER_NAME FILE_NAME* **-U** *USER* **-A** *REST_ENDPOINT* **-S Storage -I** *ID_DOMAIN*

   **Example:**

   ```
   # java -jar ftmcli.jar upload test_container test_file -U john.doe@example.com -A https://
   usoracle12345.storage.oraclecloud.com -S Storage -I usoracle12345
   ```

4. **Download Objects.**

   To download objects from containers in Oracle Cloud Infrastructure Object Storage Classic service, use the `download` command. In this example, the `test_file` object is downloaded from the `test_container` container.

   **Syntax:**

   **java -jar ftmcli.jar upload** *CONTAINER_NAME FILE_NAME* **-U** *USER* **-A** *REST_ENDPOINT* **-S Storage -I** *ID_DOMAIN*

   **Example:**

   ```
   # java -jar ftmcli.jar download test_container test_file -U john.doe@example.com -A https://
   usoracle12345.storage.oraclecloud.com -S Storage -I usoracle12345
   ```

## Product Documentation Library

Documentation and resources for this product and related products are available at https://docs.oracle.com/en/cloud/iaas/compute-sparc-300-cloud/.

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