**STACK MANAGER**

If not using terraform script to create prerequisites, please follow: [Prerequisites for Oracle Platform Services on Oracle Cloud Infrastructure](http://www.oracle.com/pls/topic/lookup?ctx=en/cloud/paas/java-cloud&id=oci_general_paasprereqs).

**Parameters needed for the soa.json:**

1. **publicKeyText**: Users can supply a Secure Shell (SSH) public key. If the key is generated, users must download a file containing the public key and its corresponding private key. Please refer to the following link to generate a key:

<http://www.oracle.com/webfolder/technetwork/tutorials/obe/cloud/javaservice/JCS/JCS_SSH/create_sshkey.html#section1>

Note: Make sure to store the public key and its corresponding private key in a file.

1. **commonPwd:** This is the Database Admin password as well as weblogic password. Please refer to this website in order to create a valid password. https://docs.oracle.com/database/121/DBSEG/guidelines.htm#DBSEG10005

Safest is to use passwords starting with an alphabet character (a–z, A–Z) and containing numbers(0–9) or special characters ($, #, \_). For example:

abc123

ab23a

ab$#\_

1. **sRegion:** Users can select from a list of Oracle Cloud regions, such as a geographical locations. The available regions vary depending on the user’s account settings. The default value is "No Preference", in which case Oracle Cloud automatically selects a region and create the instance in OCI- Classic. Hence in order to create instance on OCI, please make sure to provide a valid Region Name. For example “us-ashburn-1”
2. **availabilityDomain**: This attribute is required for the instance to be created Oracle Cloud Infrastructure. It is required along with region and subnet.

Name of a data center location in the Oracle Cloud Infrastructure region that is specified in region. A region is a localized geographic area, composed of one or more availability domains (data centers).

The availability domain value format is an account-specific prefix followed by <region>-<ad>. For example, FQCn:US-ASHBURN-AD1 where FQCn is the account-specific prefix.

The Oracle Database Cloud Service database deployment on Oracle Cloud Infrastructure must be in the same region and virtual cloud network as the Oracle Java Cloud Service instance you are creating on Oracle Cloud Infrastructure. The service instances do not need to be on the same subnet or availability domain.

1. **Subnet:** Specify the Oracle Cloud Identifier (OCID) of a subnet from a virtual cloud network (VCN) that you had created previously in Oracle Cloud Infrastructure. The OCID is a unique autogenerated ID. To find out the OCID of a subnet, go to the Oracle Cloud Infrastructure web console, select the Networking tab, click the VCN that your subnet is in, and look for the OCID field under the subnet that you want to use.

Note: The Oracle Database Cloud Service deployment that you intend to associate with your Oracle Java Cloud Service instance can be on a different subnet, but it must be in the same region and VCN.

1. **backupStorageContainer:** Give Object Storage Bucket for JCS. The object storage bucket must be created before provisioning your Oracle Java Cloud Service instance. For the instructions to create a bucket, see  “http://www.oracle.com/pls/topic/lookup?ctx=en/cloud/paas/java-cloud&id=oci\_general\_paasprereqs”.

Enter the bucket URL in the following format:

https://swiftobjectstorage.<region>.oraclecloud.com/v1/<namespace>/<bucket>.

To find out your namespace, sign in to the Oracle Cloud Infrastructure web console, click the tenancy name, and look for the Object Storage Namespace field.

Example: <https://swiftobjectstorage.us-ashburn-1.oraclecloud.com/v1/gse00014411/myJCSbucket>

1. **dbBackupStorageContainer:** Give object Storage bucket for Database. The object storage bucket must be created before provisioning your Oracle Java Cloud Service instance. For the instructions to create a bucket, see  “http://www.oracle.com/pls/topic/lookup?ctx=en/cloud/paas/java-cloud&id=oci\_general\_paasprereqs”.

Enter the bucket URL in the following format:

https://swiftobjectstorage.<region>.oraclecloud.com/v1/<namespace>/<bucket>.

To find out your namespace, sign in to the Oracle Cloud Infrastructure web console, click the tenancy name, and look for the Object Storage Namespace field.

Example: <https://swiftobjectstorage.us-ashburn-1.oraclecloud.com/v1/gse00014411/myJCSbucket>

1. **backupStorageUser**: This is the user name for the Object Storage service user.
2. **backupStoragePassword**: This is the Swift password generated in Oracle Cloud Infrastructure for the user that you specified. Find the instructions to create a swift password here: http://www.oracle.com/pls/topic/lookup?ctx=en/cloud/paas/java-cloud&id=oci\_general\_paasprereqs
3. **dbComputeShape**: Enter the compute shape for database. Refer to this website to find a shape “<https://cloud.oracle.com/compute/pricing>”. Any shape with minimum of 1 OCPU and 7 GB memory will work. Example- VM.Standard1.1, VM.Standard1.2 etc.

Note: Please make sure that it is not in the 2.x version (Example VM.Standard2.1, VM.Standard2.24 etc.

1. **wlComputeShape:** Enter the compute shape for JCS. Refer to this website to find a shape “<https://cloud.oracle.com/compute/pricing>”. Any shape with minimum of 1 OCPU and 7 GB memory will work. Example- VM.Standard1.1, VM.Standard1.2 etc.

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1. **wlComputeShape2:** Enter the compute shape for Load Balancer. Refer to this website to find a shape “<https://cloud.oracle.com/compute/pricing>”. Any shape with minimum of 1 OCPU and 7 GB memory will work. Example- VM.Standard1.1, VM.Standard1.2 etc.

Note: Please make sure that it is not in the 2.x version (Example VM.Standard2.1, VM.Standard2.24 etc.

**Parameters needed for the jcs.json**

1. **publicKeyText**: Users can supply a Secure Shell (SSH) public key. Please refer to the following link to generate a key:

<http://www.oracle.com/webfolder/technetwork/tutorials/obe/cloud/javaservice/JCS/JCS_SSH/create_sshkey.html#section1>

Note: Make sure to store the public key and its corresponding private key in a file.

1. **commonPwd:** This is the Database Admin password as well as weblogic password. Please refer to this website in order to create a valid password. https://docs.oracle.com/database/121/DBSEG/guidelines.htm#DBSEG10005

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1. **Subnet:** Specify the Oracle Cloud Identifier (OCID) of a subnet from a virtual cloud network (VCN) that you had created previously in Oracle Cloud Infrastructure. For the instructions to create a VCN and subnet, see [Prerequisites for Oracle Platform Services on Oracle Cloud Infrastructure](http://www.oracle.com/pls/topic/lookup?ctx=en/cloud/paas/java-cloud&id=oci_general_paasprereqs) in the Oracle Cloud Infrastructure documentation.

The OCID is a unique autogenerated ID. To find out the OCID of a subnet, go to the Oracle Cloud Infrastructure web console, select the Networking tab, click the VCN that your subnet is in, and look for the OCID field under the subnet that you want to use.

Note: The Oracle Database Cloud Service deployment that you intend to associate with your Oracle Java Cloud Service instance can be on a different subnet, but it must be in the same region and VCN.

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**Steps to run the stackmanager.py script:**

Once all the parameters are set right,

Please run the following command in command line:

1. CLI command to create SOA:

python stackmanager.py create soa -u <<username>> -p <<password>> --debug -dn <<IDCS ID>>

ex. python stackmanager.py create soa -u cloud.admin -p StariNg@9Scent --debug -dn idcs-72b2b9f4472e4a80ab7e5e0c1e729689

1. CLI command to create JCS:

python stackmanager.py create jcs -u <<username>> -p <<password>> --debug -dn <<IDCS ID>>

Ex. python stackmanager.py create jcs -u cloud.admin -p StariNg@9Scent --debug -dn idcs-72b2b9f4472e4a80ab7e5e0c1e729689