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Terraform Scripts in Oracle WebLogic Server for OKE

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Contents

Preface

1   Terraform Scripts in Oracle WebLogic Server for OKE

Preface

Terraform Scripts in Oracle WebLogic Server for OKE explains how to access the Terraform Scripts of Oracle WebLogic Server for OKE to perform Oracle Cloud Infrastructure tasks using the Oracle Cloud Infrastructure (OCI) Command Line Interface.(CLI).

Topics:

* [Documentation Accessibility](#)
* [Diversity and Inclusion](#)

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Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

1

Terraform Scripts in Oracle WebLogic Server for OKE

Learn to access the Terraform Scripts of an Oracle WebLogic Server for Oracle Cloud Infrastructure Container Engine for Kubernetes (Oracle WebLogic Server for OKE), and modify it as required.

> **Note:**
>
> If you are using a Oracle WebLogic Server for OKE (**Release 21.3.2 or earlier**), see Terraform Scripts in Oracle WebLogic Server for OKE (Release 21.3.2 or earlier).

The Oracle Cloud Infrastructure (OCI) Command Line Interface (CLI) is a small-footprint tool that you can use as a standalone or with the Console to complete Oracle Cloud Infrastructure tasks. The CLI provides the same core functionality as the Console, plus additional commands. Some of these, such as the ability to run scripts, extend Console functionality.

Topics:

- About Configuring Terraform Scripts
- Prerequisites
- Download a Terraform Configuration File
- Invoke Terraform Scripts
- Variables in Terraform Scripts
- Sample Scripts

About Configuring Terraform Scripts

You can create a single or multi-node Oracle WebLogic Server cluster with Oracle Cloud Infrastructure database or Oracle Autonomous database (ATP) as an infra database, optionally, fronted-by a load balancer. Here you would create a stack and a domain, and modify them as required.

When you create an instance by using the scripts, you will create a public or private subnet in Oracle WebLogic Server for OKE.

By default subnets span an entire region in Oracle Cloud Infrastructure. Oracle WebLogic Server for OKE supports both regional and AD-scoped subnets. AD subnets are now supported for only existing subnets. In case of regional subnets, single regional subnet is created.

Prerequisites

Prerequisites you need to complete before you update the terraform scripts in Oracle WebLogic Server for OKE.

- An Oracle Cloud Infrastructure tenancy.
- The OCID for the compartment where you wish to create your stack.
- A user account that includes the following:
  - An API signing key. See Required Keys and OCIDs.
  - Required IAM permissions. See How Policies Work.
  - If you want to use the Oracle Cloud Infrastructure CLI, install and configure the CLI first. See Installing the CLI.
- Install and configure terraform. See OCI Terraform Provider Configuration on Linux and Windows machine.

Download a Terraform Configuration File

Create a Oracle WebLogic Server for OKE stack, download the terraform configuration file, and update the `provider.tf` file.

Complete the following steps:

1. Create a Stack. See Get Started with Oracle WebLogic Server for OKE.

2. Click the navigation menu ▤, and select **Developer Services**. Under the **Resource Manager** group, click **Stacks**.

3. Select the **Compartment** that contains your stack.

4. Click the name of your stack.

5. In the **Stack Information** tab, click **Download** against **Terraform Configuration File (.zip)**.

6. Unzip the terraform configuration files to a folder.

7. The terraform configuration files includes the `provider.tf` file that you cannot use for the CLI option.
   Update the contents of the terraform file `provider.tf`, with the following content:

```
# Copyright  2019, 2021 Oracle Corporation and/or affiliates.  All
rights reserved.
# Licensed under the Universal Permissive License v 1.0 as shown at
http://oss.oracle.com/licenses/upl
# Identity and access parameters
variable "api_private_key_path" {
  description = "path to oci api private key"
}
variable "api_fingerprint" {
  description = "fingerprint of oci api private key"
}
variable "user_id" {
  type        = string
```

```
      description = "user id"
    }
    # general oci parameters
    variable "disable_auto_retries" {
      default = true
    }
    provider "oci" {
      version             = ">=4.7.0"
      tenancy_ocid        = var.tenancy_ocid
      user_ocid           = var.user_id
      fingerprint         = var.api_fingerprint
      private_key_path    = var.api_private_key_path
      region              = var.region
      disable_auto_retries = var.disable_auto_retries
    }
    provider "oci" {
      version             = ">=4.7.0"
      alias               = "home"
      region              = local.home_region
      tenancy_ocid        = var.tenancy_ocid
      user_ocid           = var.user_id
      fingerprint         = var.api_fingerprint
      private_key_path    = var.api_private_key_path
      disable_auto_retries = var.disable_auto_retries
    }
```

Invoke Terraform Scripts

Use specific commands to invoke the terraform scripts in Oracle WebLogic Server for OKE.

Topics:

- Invoke terraform scripts in an infrastructure
- Update an infrastructure
- Destroy an infrastructure

The following section reference files in the input directory that you need create. Depending on the type of stack (JRF or non-JRF), create the appropriate files in the inputs directory. For information about the input files, see Sample Scripts.

To invoke terraform scripts in an infrastructure:

Complete the following steps:

1. Go to the directory, where you unzipped the terraform configuration files.

2. Initialize the terraform provider plugin:

   ```
   $ terraform init
   ```

3. Initialize the environment with terraform environment var files:

   ```
   $ source inputs/env_vars
   ```

4. Invoke apply passing all `*.tfvars` files as input:

> **Tip:**
>
> If you do not specify the -var-file, then the defaults in `vars.tf` will apply.

- WebLogic Non-JRF:

```
$ terraform apply -var-file=inputs/instance.tfvars
```

- WebLogic JRF with OCI database:

```
$ terraform apply -var-file=inputs/instance.tfvars -var-
file=inputs/oci_db.tfvars
```

- WebLogic JRF with ATP database:

```
$ terraform apply -var-file=inputs/instance.tfvars -var-
file=inputs/atp_db.tfvars
```

5. Create multiple instances from same solutions:

```
$ terraform apply -var-file=inputs/instance.tfvars -
state=<file_name>
```

Where, *<file_name>* is the unique directory name or state file name for each stack.

To update an infrastructure:

Complete the following steps:

1. Update the variables. For the list of variables you can update, see Table 1-1.

2. Complete step 1 through step 4 in Invoke terraform scripts.

To destroy an infrastructure:

```
$ terraform destroy -var-file=inputs/instance.tfvars
```

Delete the Resources and Stack

> **Tip:**
>
> You can invoke terraform scripts by using the Resource Manager. See Get
> Started with Oracle WebLogic Server for OKE and Managing Stacks and
> Jobs.

Variables in Terraform Scripts

The variables you need input to the terraform scripts in Oracle WebLogic Server for
OKE.

> **Note:**
>
> If you are using a Oracle WebLogic Server for OKE (**Release 21.3.2 or earlier**), see Terraform Scripts in Oracle WebLogic Server for OKE (Release 21.3.2 or earlier).

1-5

The following table lists all the variables in terraform scripts:

Table 1-1   Variables in terraform scripts

Variables	Type	Default Value	Optional	Can be updated?	Description
Authentication Information **Note:** Use `env_vars_tem plate` to create `env_vars` and source it as: `source ./ env_vars` before running terraform init.	_____	_____	_____	_____	_____
`FingerPrint`	String	-	-	Yes	Fingerprint of the OCI API private key.
`Path to private key`	String	-	-	-	Path to the private key that matches the fingerprint.
`Tenancy OCID`	String	-	-	-	OCID of the tenancy in which you want to perform changes.
`User OCID`	String	-	-	-	OCID of the signed in user. That is, your OCID.
WebLogic Server Variables	_____	_____	_____	_____	_____
`compartment_ ocid`	String	-	-	-	OCID of the compartment for WebLogic instances.
`region`	String	-	-	-	Region for provisioning.

Table 1-1   (Cont.) Variables in terraform scripts

Variables	Type	Default Value	Optional	Can be updated?	Description
service_name	String	-	-	-	Prefix for stack resources. The names of all the related compute and network resources begins with the prefix you assign here.
ssh_public_key	String	-	-	-	Content of public key for access.
resource_prefix	String	-	-	-	Prefix for stack resources. The names of all the related compute and network resources begins with the prefix you assign here.
General	_____	_____	_____	_____	_____
create_policies	Boolean	true	Yes	-	Create policies to read Secrets from Vault and manage ATP database (if applicable).
Container Cluster (OKE) Configuration	_____	_____	_____	_____	_____
existing_cluster_id	String	-	-	-	Existing cluster ID value.
kubernetes_version	String	Latest Kubernetes version is displayed by default.	Yes	-	Kubernetes version.

Table 1-1   (Cont.) Variables in terraform scripts

Variables	Type	Default Value	Optional	Can be updated?	Description
`non_wls_node _pool_count`	String	1	-	Yes	Count of the non-WebLogic node pool. **Note:** If you update the node pool count, then the node pool is recreated. If you scale the compute instance and the WebLogic server Operator does not connect to the WebLogic server Persistence store, see Scaling Compute Instances.
`non_wls_node _pool_shape`	String	VM.Standard2 .1	-	Yes	Shape of the non-WLS node pool.
`pods_cidr`	String	-	Yes	-	CIDR value of the OKE pod.
`services_cid r`	String	-	Yes	-	CIDR value of the services.
`cluster_name`	String	-	-	-	Name of the OKE cluster.
`wls_node_poo l_shape`	String	VM.Standard2 .1	-	Yes	Shape of the worker nodes.

Table 1-1   (Cont.) Variables in terraform scripts

Variables	Type	Default Value	Optional	Can be updated?	Description
`wls_node_pool_count`	Number	1	-	Yes	Number of nodes in the WebLogic node pool. **Note:** If you update the node pool count, then the node pool is recreated. If you scale the compute instance and the WebLogic server Operator does not connect to the WebLogic server Persistence store, see Scaling Compute Instances.
`use_encryption`	Boolean	false	-	-	Indicates if you have enabled encryption by using the master encryption key in Vault. If you do not enable this option, the standard block storage encryption is used for `etcd` read and write and Kubernetes secrets at rest in `etcd` are not encrypted.
`vault_key_ocid`	String	-	-	-	Key OCID for Kubernetes secret encryption.
`use_existing_cluster`	Boolean	false	-	-	Indicates if you are using an existing cluster.

Table 1-1   (Cont.) Variables in terraform scripts

Variables	Type	Default Value	Optional	Can be updated?	Description
`enable_publi c_cluster_en dpoint_confi g`	Boolean	`false`	-	-	Indicates if you are using a public or private endpoint for the cluster.
Container Cluster (OKE) Administration Instances	⎯⎯⎯	⎯⎯⎯	⎯⎯⎯	⎯⎯⎯	⎯⎯⎯
`admin_availa bility_domai n`	String	-	-	-	Name of the availability domain for the administrator instance.
`admin_shape`	String	`VM.Standard. E2.1`	-	-	Shape for administrator instance.
`bastion_shap e`	String	`VM.Standard. E2.1`	-	-	Shape for bastion instance.
`assign_admin _public_ip`	Boolean	`false`	-	-	Indicates the admin host have a public IP.
Network Variables	⎯⎯⎯	⎯⎯⎯	⎯⎯⎯	⎯⎯⎯	⎯⎯⎯
`network_comp artment_id`	String	-	-	-	The network compartment ID.
`existing_vcn _id`	String	-	-	-	OCID of an existing VCN where you want to create the compute instances, network resources, and load balancers.
`existing_lb_ subnet_id`	String	-	-	-	OCID of an existing load balancer subnets.
`existing_bas tion_subnet_ id`	String	-	-	-	OCID for an existing bastion subnet.
`existing_oke _workers_sub net_id`	String	-	-	-	OCID for an OKE worker node subnet.

Table 1-1   (Cont.) Variables in terraform scripts

Variables	Type	Default Value	Optional	Can be updated?	Description
existing_oke _endpoint_su bnet_id	String	-	-	-	OCID for an existing cluster private API endpoint subnet.
existing_adm in_subnet_id	String	-	-	-	OCID for an existing administrator subnet.
existing_fss _subnet_id	String	-	-	-	OCID for an existing FSS subnet.
existing_nat _gw_id	String	-	Yes	-	OCID for an existing NAT gateway. **Note:** You need to specify either the NAT gateway (existing_na t_gw_id) or service gateway (existing_se rvice_gw_id).
existing_ser vice_gw_id	String	-	Yes	-	OCID for an existing service gateway. **Note:** You need to specify either the NAT gateway (existing_na t_gw_id) or service gateway (existing_se rvice_gw_id).

Table 1-1   (Cont.) Variables in terraform scripts

Variables	Type	Default Value	Optional	Can be updated?	Description
`is_bastion_i nstance_requ ired`	Boolean	`true`	Yes	-	Creates bastion for the stack. If `true`, it provisions a bastion compute instance on a public subnet to provide access to the WebLogic server compute instances on a private subnet.
`vcn_cidr`	String	`10.0.0.0/16`	-	-	CIDR block of the VCN.
`lb_subnet_ci dr`					CIDR of the load balancer subnet.
`oke_workers_ subnet_cidr`					CIDR for an OKE worker node subnet.
`oke_endpoint _subnet_cidr`					CIDR for an existing cluster private API endpoint subnet.
`bastion_subn et_cidr`					CIDR for an existing bastion subnet.
`admin_subnet _cidr`					CIDR for an existing administrator subnet.
`fss_subnet_c idr`					CIDR for an existing FSS subnet.
Load Balancer Variables	_____	_____	_____	_____	_____
`ingress_lb_s hape`	String	`flexible`	-	-	Shape of the ingress load balancer.
`ingress_lb_s hape_min`	String	`10 Mbps`	-	Yes	Minimum size of the flexible load balancer shape.
`ingress_lb_s hape_max`	String	`100 Mbps`	-	Yes	MAximum size of the flexible load balancer shape.

Table 1-1   (Cont.) Variables in terraform scripts

Variables	Type	Default Value	Optional	Can be updated?	Description
Shared File System Variables	_____	_____	_____	_____	_____
`fss_availability_domain`	String	-	-	-	OCID of the availability domain for Shared File System.
`mountTarget_id`	String	-	Yes	-	OCID for the mount target.
`mountTarget_compartment_id`	String	-	Yes	-	OCID of the compartment for the mount target. This variable is required if `mountTarget_id` is updated.
OCIR Variables	_____	_____	_____	_____	_____
`ocir_user`	String	-	-	-	OCIR user name.
`ocir_auth_token_ocid`	String	-	-	-	OCID token for the OCIR user name.
`ocir_region`	String	-	-	-	The URL to the OCIR.
`ocir_custom_image_repo_name`	String	-	-	-	The OCIR repository to download the existing custom WLS image to create a domain.
Gateway Variables	_____	_____	_____	_____	_____
`create_nat_gateway`	Boolean	`true`	-	-	Indicates if you want to create a NAT gateway.
`create_service_gateway`	Boolean	`true`			Indicates if you want to create a service gateway.
Security Variables	_____	_____	_____	_____	_____

Table 1-1   (Cont.) Variables in terraform scripts

Variables	Type	Default Value	Optional	Can be updated?	Description
allow_node_p ort_access	Boolean	false	-	-	Indicates if you want to allow access to NodePorts, when worker nodes are outside the access zone (only applicable for public worker nodes).
allow_worker _ssh_access	Boolean	true	-	-	Indicates if you want to allow SSH access to worker nodes, for worker nodes in instances in the same VCN.
Verrazzano Variables	_____	_____	_____	_____	_____
vz_enabled	Boolean	false	Yes	-	Indicates if you have enabled Verrazzano integration.
vz_profile	String	prod	-	-	The deployment profile for Verrazzano.
vz_env_name	String		-	-	Name of the Verrazzano installation. This name is part of the generated endpoint access URLs.
vz_customize _dns	Boolean	false	-	-	Indicates if you have enabled to customize DNS configurations for Verrazzano system and application endpoints.

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Table 1-1 (Cont.) Variables in terraform scripts

Variables	Type	Default Value	Optional	Can be updated?	Description
`vz_customize _certificate s`	Boolean	`false`	-	-	Indicates if you have enabled to customize SSL certificate generation for Verrazzano system endpoints.
`vz_customize _elastic_sea rch`	Boolean	`false`	-	-	Indicates if you have enabled to customize Elastic Search.
`vz_customize _persistent_ storage`	Boolean	`false`	-	-	Indicates if you have enabled to customize Persistent Volumes.
`vz_dns_type`	String	`Wildcard`	-	-	The DNS type.
`vz_wild_card _dns_type`	String	`nip.io`	-	-	The DNS Wildcard type.
`vz_dns_zone_ compartment_ ocid`	String	-	-	-	The OCI DNS Zone compartment ID.
`vz_dns_zone_ ocid`	String	-	-	-	The OCI DNS Zone OCID.
`vz_certifica te_type`	String	`Verrazzano self-signed CA`	-	-	The certificate type.
`vz_custom_ca _signing_key _secret_ocid`	String	-	-	-	The custom CA signing key secret OCID.
`vz_custom_ca _cert_secret _ocid`	String	-	-	-	The custom CA Cert secret OCID
`vz_letsencry pt_email`	String	-	-	-	The email ID for LetsEncrypt.
`vz_letsencry pt_env`	String	`production`	-	-	The LetsEncrypt environment type.
`vz_is_system _lb_private`	Boolean	`true`	-	-	The system load balancer visibility type.
`vz_system_lb _shape`	String	`flexible`	-	-	The shape of the system load balancer.

Table 1-1   (Cont.) Variables in terraform scripts

Variables	Type	Default Value	Optional	Can be updated?	Description
`vz_system_lb_min_bandwidth`	Number	`10`			The minimum bandwidth of the system load balancer.
`vz_system_lb_max_bandwidth`	Number	`10`	-	-	The maximum bandwidth of the system load balancer.
`vz_is_app_lb_private`	Boolean	`false`	-	-	The application load balancer visibility type
`vz_app_lb_shape`	String	`flexible`	-	-	The shape of the application load balancer.
`vz_app_lb_min_bandwidth`	Number	`10`	-	-	The minimum bandwidth of the application load balancer.
`vz_app_lb_max_bandwidth`	Number	`100`	-	-	The maximum bandwidth of the application load balancer.
`vz_es_master_node_replica_count`	Number	`3`	-	-	The number of master node replicas.
`vz_es_master_node_memory`	Number	`1.4`	-	-	The master node memory in GB.
`vz_es_ingest_node_replica_count`	Number	`1`	-	-	The number of ingest node replicas.
`vz_es_ingest_node_memory`	Number	`2.5`	-	-	The Ingest node memory in GB.
`vz_es_data_replica_count`	Number	`2`	-	-	The number of data replicas.
`vz_es_data_replica_memory`	Number	`4.8`	-	-	The data replicate memory in GB.
`vz_es_storage_size`	Number	`50`	-	-	The storage capacity in GB.
`vz_ephemeral_storage`	Boolean	`false`	-	-	Use Ephemeral Storage for Dev profiles only.
`vz_ps_capacity_global`	Number	`50`	-	-	The persistent volume storage capacity for all components in GB.

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Table 1-1   (Cont.) Variables in terraform scripts

Variables	Type	Default Value	Optional	Can be updated?	Description
`vz_ps_capaci ty_keycloak`	Number	50	-	-	The persistent volume storage capacity for Keycloak in GB.
`vz_node_pool _shape`	String	VM.Standard2 .4	-	-	The shape of worker nodes.
`vz_node_pool _count`	Number	3	-	-	The number of nodes in the Verrazzano node pool.

> **Note:**
>
> Support for existing bastion host to be used in provisioning WebLogic server with private subnet is enabled in terraform CLI only. This can be achieved by using the variables: `is_bastion_instance_required`, `existing_bastion_instance_id`, and `bastion_ssh_private_key`. For existing WebLogic server subnet, you will need to open port `22` for bastion IP/subnet CIDR. For a new WebLogic server subnet we create security list with bastion private IP.

Sample Scripts

Following are a few sample scripts in Oracle WebLogic Server for OKE.

Following is a sample script for file: **env_vars:**

```
# Use this template to create a file env_vars and source it before
running terraform.

### Authentication details
export TF_VAR_tenancy_ocid="<tenancy_ocid>"
export TF_VAR_user_ocid="<user_ocid>"
export TF_VAR_api_fingerprint="<fingerprint>"
export TF_VAR_api_private_key_path="/home/<path>/.oci/oci_api_key.pem"
```

Following is a sample script for file: **oci_db.tfvars**. Use this file to provision WLSC with OCI database, along with `instance.tfvars`.

```
#DB VCN ID
ocidb_existing_vcn_id = "<VCN OCID>"

#DB Compartment
ocidb_compartment_id = "<Compartment OCID>"

#DB System
```

```
ocidb_dbsystem_id ="<OCID>"

#Database
ocidb_database_id = "<OCID>"

#PDB Name
ocidb_pdb_service_name = "PDB1"

#Provide DB user creds.
oci_db_user = "sys"
oci_db_password_ocid = "<OCID>"
```

Following is a sample script for file: **atp_db.tfvars**. Use this file to provision WLSC with ATP database, along with instance.tfvars.

```
atp_db_level = "low"
atp_db_id = "<OCID>"
atp_db_compartment_id="<OCID>"
atp_db_password_ocid="<password>"
```

Following is a sample script with all variables: **instance.tfvars:**

```
# Copyright 2019, 2020, Oracle Corporation and/or affiliates.  All rights
reserved.

# Identity and access parameters

#Compartment for resources- MyCompartmentWLSC
compartment_ocid = "<Compartment_OCID>"

#Network compartment -OCID HERE is for Networks compartment
network_compartment_id = "<Network_Compartment_OCID>"

region = "<region>"

# ssh keys
ssh_public_key = "<ssh public key>"

# general oci parameters
resource_prefix = "<prefix>"

/*
is_idcs_selected = "false"
idcs_host = "<IDCS_host>"
idcs_port = "443"
idcs_tenant = "<IDCS_Tenant>"
idcs_client_id = "<IDCS_Client_ID>"
# Secret Plain value: <Value>
idcs_client_secret_ocid = "<IDCS_Client_Secret_OCID>"
idcs_cloudgate_port = "9999"
*/

# networking
```

```
vcn_cidr = "<CIDR>"

# admin
admin_shape = "VM.Standard2.1"

#MDS Image below
admin_image_id="<Admin_Image_OCID>"

# which AD where to place non-OKE resources
admin_availability_domain=""

#depends on the subnet type
assign_admin_public_ip = false

# oke
cluster_name = "oke-cluster"

#public/private subnet flag
worker_mode = "private"
allow_node_port_access = false
allow_worker_ssh_access = false
dashboard_enabled = true
kubernetes_version = "v1.17.9"

pods_cidr = "<CIDR>"
services_cidr = "<CIDR>"

# ocir
ocir_region="phx"

ocir_user="<firstname.lastname@email.com>"
ocir_auth_token_ocid="<OCID>"

#fss parameters- for existing-mount-ad-2
fss_availability_domain="<FSS Domain>"

#ingress
ingress_lb_shape="flexible"
ingress_lb_shape_min="10Mbps"
ingress_lb_shape_max="100Mbps"

#workaround to provision all nodes in single AD
node_pool_single_ad="<AD>"

#If use_encryption flag is true, then the vault key is used for OKE
encryption
vault_key_ocid="<OCID>"

#Optional

#use existing network -oke-vcn
existing_vcn_id ="<OCID>"
existing_lb_subnet_id ="<OCID>"
existing_bastion_subnet_id ="<OCID>"
existing_oke_workers_subnet_id ="<OCID>"
```

```
existing_admin_subnet_id="<OCID>"
existing_fss_subnet_id="<OCID>"
existing_service_gw_id="<OCID>"
existing_oke_endpoint_subnet_id="<OCID>"

#existing-mount-ad-2- for WLSOnOke compartment
mountTarget_id="<OCID>"
mountTarget_compartment_id="<OCID>"
existing_cluster_id=""
```