

Oracle® Cloud

Terraform Scripts in Oracle WebLogic Server for Oracle Cloud Infrastructure



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Terraform Scripts in Oracle WebLogic Server for Oracle Cloud Infrastructure

Learn to access the Terraform Scripts of an Oracle WebLogic Server for Oracle Cloud Infrastructure and modify it as required.

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 Transaction Processing (ATP) database as an infra database, optionally, fronted-by a load balancer. Here you would create a stack and modify it as required.

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

By default subnets span an entire region in Oracle Cloud Infrastructure. Oracle WebLogic Server for Oracle Cloud Infrastructure 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 Oracle Cloud Infrastructure.

- 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 Oracle Cloud Infrastructure stack and download the Terraform configuration file.

Complete the following steps:

1. Create a Stack. See [Get Started with Oracle WebLogic Server for Oracle Cloud Infrastructure](#).
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 (c) 2019 Oracle and/or its affiliates. All rights
 reserved.
 */
/* variables and provider plugin defined here are not required for
resource manager */
variable "user_id" {
}
variable "fingerprint" {
}
variable "private_key_path" {
}
variable "disable_auto_retries" {
  default = true
}
provider "oci" {
  version      = ">=3.85,<=3.90"
  tenancy_ocid = var.tenancy_ocid
  user_ocid    = var.user_id
  fingerprint  = var.fingerprint
  private_key_path = var.private_key_path
  region       = var.region
}
provider "oci" {
```

```
version            = ">=3.85,<=3.90"  
alias              = "home"  
region            = local.home_region  
tenancy_ocid      = var.tenancy_ocid  
user_ocid         = var.user_id  
fingerprint       = var.fingerprint  
private_key_path  = var.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 Oracle Cloud Infrastructure.

Topics:

- [Invoke terraform scripts in an infrastructure](#)
- [Update an infrastructure](#)
- [Destroy an infrastructure](#)

To invoke terraform scripts in an infrastructure:

Complete the following steps:

1. Go to the WebLogic directory.
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 [Variables in terraform scripts](#).
2. Complete [step 1](#) through [step 4](#) in [Invoke terraform scripts](#).

To destroy an infrastructure:

- WebLogic Non-JRF:

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

- WebLogic JRF with OCI database:
Before running destroy, ensure that the JRF schemas are deleted. See [Delete a JRF Database Schema](#).

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

- WebLogic JRF with ATP database:
Before running destroy, ensure that the JRF schemas are deleted. See [Delete a JRF Database Schema](#).

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

Tip:

You can invoke terraform scripts by using the Resource Manager. See [Get Started with Oracle WebLogic Server for Oracle Cloud Infrastructure and Managing Stacks and Jobs](#).

Variables in Terraform Scripts

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

Criteria for VCN peering

If `wls_vcn_name` or `wls_existing_vcn_id` and `ocidb_existing_vcn_id` are passed together and `vcn_ids` are different, complete the following steps:

1. For an existing DB subnet, set the following stateful security rules:
 - Allow WebLogic VCN CIDR (for example, 11.0.0.0/16) access to the database port 1521.
 - Allow database DNS subnet CIDR (for example, 10.0.7.0/24) access to TCP/53 and UDP/53 ports.
 - Setup the database to use the default DHCP options for the VCN.
2. For an existing WebLogic subnet, set the following stateful security rules:
 - Allow 0.0.0.0/0 access to ICMP/3,4
 - Allow 0.0.0.0/0 access to TCP/22
 - Allow 0.0.0.0/0 access to TCP/7001-7002 (optional, only required for accessing console).
7001 and 7002 are examples, use the ports used for WebLogic server admin console port and admin console SSL port.
 - Allow LB subnet CIDRs access to TCP/7003-7004 ports.
7003 and 7004 are example, use the ports used for WebLogic managed server port and managed server SSL port.
 - Allow WebLogic subnet CIDR (for example, 11.0.3.0/24) access to TCP/All ports. This is for VM to VM communication.
 - Allow WLS DNS subnet CIDR (for example, 11.0.7.0/24) access to TCP/53 and UDP/53 ports.
 - WebLogic subnet should be setup to use the default DHCP options for the VCN.

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 <code>env_vars_template</code> to create <code>env_vars</code> and source it as: <code>source ./env_vars</code> before running <code>terraform init</code> .	-	-	-	-	-
<code>FingerPrint</code>	String	-	-	Yes	Fingerprint of your public key.

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

Variables	Type	Default Value	Optional	Can be updated?	Description
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.
instance_shape	String	-	-	Yes	Shape for all WebLogic Server compute instances.
region	String	-	-	-	Region for provisioning.
service_name	String	-	-	-	Prefix for stack resources. The names of all the related compute and network resources begins with the prefix you assign here.
wls_admin_password_ocid	String	-	-	-	OCID of the Secret that contains the password for the administrator in the WebLogic Server domain.

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

Variables	Type	Default Value	Optional	Can be updated?	Description
wls_admin_user	String	weblogic	-	-	Name of the administrator in the WebLogic Server domain.
wls_edition	String	EE	-	-	WebLogic server edition. Supported editions: <ul style="list-style-type: none">• SE• EE• SUITE
wls_node_count	Number	1	-	Yes	Number of WebLogic server compute instances and the number of managed servers in the domain. The maximum is node count is 8. For 11g Standard Edition, the maximum is 4.
wls_ocpu_count	Number	1	-	Yes	Number of OCPU count for instances. Note: Required only for VM.Standard.E3.Flex shape. The maximum is 64.

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

Variables	Type	Default Value	Optional	Can be updated?	Description
wls_version	String	12.2.1.3	-	-	WeLogic server version. Supported versions: <ul style="list-style-type: none"> • 11g: 11.1.1.7 • 12c (12.2.1.3) : • 12c (12.2.1.4) :
General	-	-	-	-	-
create_policies	Boolean	true	-	-	Create policies to read Secrets from Vault and manage ATP database (if applicable).
Network Variables	-	-	-	-	-
assign_weblogic_public_ip	Boolean	true	-	-	Indicates if you are using any private subnets. If false, the WebLogic server compute instances are created in a new private subnet.
bastion_ssh_private_key	String	-	-	-	Private ssh key for existing bastion instance. See Additional information .

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

Variables	Type	Default Value	Optional	Can be updated?	Description
bastion_subnet_cidr	String	-	-	-	CIDR of the new public subnet to create for a Bastion compute instance. This field is required only if you do not assign public IP addresses to the WebLogic server.
bastion_subnet_id	String	-	-	-	An existing public subnet to use for a Bastion compute instance. This subnet must already be present in the chosen VCN and required only if you do not assign public IP addresses to the WebLogic server.
bastion_subnet_name	String	-	-	-	Name of new bastion subnet.
existing_bastion_instance_id	String	-	-	-	OCID for existing bastion instance.

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

Variables	Type	Default Value	Optional	Can be updated?	Description
is_bastion_instance_required	Boolean	true	-	-	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.
network_compartment_id	String	-	Yes	-	Compartment where you want to create the network resources, such as: Virtual Cloud Network (VCN), security lists, route tables and gateways.
use_regional_subnet	Boolean	true	-	-	Indicates use of regional subnets.
wls_admin_port_source_cidr	String	-	Yes	-	Create a security list to allow access to the WebLogic Administration Console port to the source CIDR range. Note: Keeping the default 0.0.0.0/0 CIDR exposes the console to the internet. You must change the CIDR range to allow access to a trusted IP range.

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

Variables	Type	Default Value	Optional	Can be updated?	Description
wls_availability_domain_name	String	-	-	-	Name of the availability domain where you want to create the WebLogic server compute instances.
wls_existing_vcn_id	String	-	-	-	OCID of an existing VCN where you want to create the compute instances, network resources, and load balancers.
wls_expose_admin_port	Boolean	-	-	-	Indicates if you are enabling access to administration console port. Note: Enabling this option exposes the console to the internet if the default 0.0.0.0/0 CIDR is used. In the wls_admin_port_source_cidr variable, specify the CIDR range to allow access to a trusted IP range.
wls_subnet_cidr	String	-	-	-	CIDR of the new subnet, which would be used in the WebLogic server compute instances.

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

Variables	Type	Default Value	Optional	Can be updated?	Description
wls_subnet_id	String	-	-	-	OCID for existing subnet for weblogic instances.
wls_subnet_name	String	-	-	-	Name of new subnet.
wls_vcn_cidr	String	-	-	-	CIDR to assign to the new VCN) to create for the service. This field is not required if you want to use an existing VCN.
wls_vcn_name	String	-	-	-	Name of the new VCN to create for the service.
Load Balancer Variables	-	-	-	-	-
add_load_balancer	Boolean	false	-	-	If you want to provision a load balancer in Oracle Cloud Infrastructure to distribute application traffic to the managed servers in the domain.
is_lb_private	Boolean	false	-	-	If you want to use a private load balancer.
lb_min_bandwidth	Number	10	-	Yes	Minimum size of the flexible load balancer shape.
lb_max_bandwidth	Number	400	-	Yes	Maximum size of the flexible load balancer shape.
lb_subnet_1_cidr	String	-	-	Yes	CIDR of new primary regional subnet.

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

Variables	Type	Default Value	Optional	Can be updated?	Description
lb_subnet_1_id	String	-	-	-	OCID for existing regional subnet for primary load balancer.
lb_subnet_1_name	String	-	-	-	Name of new primary regional subnet.
IDCS-related Variables	-	-	-	-	-
idcs_client_id	String	-	-	-	IDCS client ID value.
idcs_client_secret_oci_id	String	-	-	-	IDCS client secret OCID value.
idcs_cloudgate_port	Number	9999	-	-	IDCS cloud gate port value.
idcs_host	String	identity.oraclecloud.com	-	-	IDCS host value.
idcs_port	Number	443	-	-	IDCS port value.
idcs_tenant	String	-	-	-	IDCS tenant value.
is_idcs_selected	Boolean	false	-	-	If you want an IDCS has to be provisioned.
VCN Peering Variables for OCI Database	-	-	-	-	-
dns_instance_shape	String	-	-	-	Shape of the DNS instance
ocidb_dns_subnet_cidr	String	-	-	-	CIDR value of the subnet to be used for database DNS instance.
use_local_vcn_peering	Boolean	true	-	-	Indicates use of VCN peering, if database and WebLogic server are on different VCNs.

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

Variables	Type	Default Value	Optional	Can be updated?	Description
wls_dns_subnet_cidr	String	-	-	-	CIDR value of the subnet to be used for DNS instance.
OCI Database - Variables					
oci_db_password	String	-	-	-	OCID of the OCI database password.
oci_db_username	String	sys	-	-	OCI database username.
ocidb_compartment_id	String	-	-	-	OCID of the OCI database compartment.
ocidb_database_id	String	-	-	-	OCID of the OCI database.
ocidb_database_home_id	String	-	-	-	ID of the OCI database system DB home.
ocidb_database_system_id	String	-	-	-	OCID of the OCI database system.
ocidb_existing_vcn_add_security_list	Boolean	true	-	-	If you want a security list to the database subnet that allows connections from the WebLogic server subnet.
ocidb_existing_vcn_id	String	-	-	-	VCN ID of the existing OCI database.
ocidb_network_compartment_id	String	-	-	-	OCID of the OCI database network. It is usually same as the ocidb_compartment_id variable.
ocidb_pdb_service_name	String	-	-	-	PDB name of the OCI database.
ATP Database Variables					

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

Variables	Type	Default Value	Optional	Can be updated?	Description
atp_db_compartment_id	String	-	-	-	OCID of the ATP database compartment.
atp_db_id	String	-	-	-	OCID of the ATP database.
atp_db_level	String	-	-	-	ATP database level value.
atp_db_password_ocid	String	-	-	-	OCID of the ATP database password.
OCI Database-related (used for AppDB) Variables	-	-	-	-	-
app_db_password_ocid	String	-	-	-	OCID of the Application database password.
app_db_user	String	-	-	-	User name of the Application database.
appdb_compartment_id	String	-	-	-	OCID of the Application database compartment.
appdb_database_id	String	-	-	-	OCID of the Application database.
appdb_database_home_id	String	-	-	-	ID of the Application database system DB home.
appdb_database_system_id	String	-	-	-	OCID of the Application database system.
appdb_existing_vcn_add_seclist	Boolean	true	-	-	If you want a security list to the Application database subnet that allows connections from the WebLogic server subnet.

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

Variables	Type	Default Value	Optional	Can be updated?	Description
appdb_existing_vcn_id	String	-	-	-	VCN ID of the existing Application database.
appdb_network_compartment_id	String	-	-	-	OCID of the Application database network.
appdb_service_name	String	-	-	-	PDB name of the Application database.
appdb_port	Number	1521	-	-	Database port number.
ATP Database-related (used for AppDB) Variables					
app_atp_db_compartment_id	String	-	-	-	Compartment where the ATP database for the Application database resides.
app_atp_db_id	String	-	-	-	OCID of the selected ATP database.
app_atp_db_level	String	low	-	-	ATP database DB level. Supported levels: <ul style="list-style-type: none"> • low • tp • tp_urgent
app_atp_db_password_ocid	String	-	-	-	Secret OCID that contains the ATP database user password.
app_atp_db_user	String	-	-	-	User name for creating the datasource.
VCN Peering Variables for Application Database					

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

Variables	Type	Default Value	Optional	Can be updated?	Description
appdb_wls_dns_subnet_cidr	String	-	-	-	CIDR value of the subnet to be used for DNS instance.
appdbdns_instance_shape	String	-	-	-	Shape of the DNS instance.
ociappdb_dns_subnet_cidr	String	-	-	-	CIDR value of the subnet to be used for database DNS instance.

 **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 Oracle Cloud Infrastructure.

Following is a sample script for file: `env-var.sh`:

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

### Region
export TF_VAR_region="us-phoenix-1"

### Public/private keys used on the instance
export TF_VAR_ssh_public_key=$(cat ~/xperiment_rsa.pub)
export TF_VAR_ssh_private_key=$(cat ~/xperiment_rsa)

## NOTE: These are not your api keys. More info on the right keys see
## https://docs.oracle.com/en-us/iaas/Content/Compute/Tasks/
managingkeypairs.htm
## https://docs.cloud.oracle.com/iaas/Content/API/Concepts/
apisigningkey.htm
```

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 Network Compartment
#ocidb_network_compartment_id = "<Network Compartment OCID>"

#DB System
ocidb_dbssystem_id = "<OCID>"

#Database
ocidb_database_id = "<OCID>"

#PDB Name
ocidb_pdb_service_name = "PDB"

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

#VCN peering param for OCI DB
ocidb_dns_subnet_cidr = "10.0.7.0/11"
```

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_password = "<password>"
atp_db_compartment_id = "<OCID>"
```

Following is a sample script for file: **instance_idcs.tfvars**. This is a sample template for provisioning 2 node WLSC, an existing VCN, an existing public subnet, loadbalancer, and IDCS.

```
// Region for provisioning
region = "<region>"

// WLS config
service_name = "WLSCIDCS"

// WLS instance shape
instance_shape = "VM.Standard2.2"

// WLS instances count
wls_node_count = "2"

// Add LB
```

```
add_load_balancer = true
lb_use_https = false

// Add IDCS
is_idcs_selected = true
idcs_host = "<host>"
idcs_port = "443"
idcs_tenant = "<tenant>"
idcs_client_id = "<ID>"
idcs_client_secret_ocid = "<OCID>"
idcs_cloudgate_port = "9999"

// WLS admin creds
wls_admin_user = "weblogic"
wls_admin_password_ocid = "<OCID>"

// WLS custom image ID
instance_image_id = "<OCID>"

// WLS and VCN compartment ID
compartment_ocid = "<OCID>"
network_compartment_id = "<OCID>"

// WLS existing VCN
wls_existing_vcn_id = "<OCID>"

// WLS existing VCN
wls_subnet_id = "<OCID>"

// LB existing Subnet
lb_subnet_1_id = "<OCID>"
#lb_subnet_2_id = "" -- not used for regional subnet - uncomment for
non-regional.

wls_edition = "EE"

wls_version = "12.2.1.3"
// "12.2.1.3", 12.1.2.4, 11.1.1.7

// Creating policies
create_policies = true

// Private Subnet Config
assign_weblogic_public_ip = true

// Regional subnet config
use_regional_subnet = true

wls_console_port="7001"
```

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

```
// Region for provisioning
region = "<region>"
```

```
// WLS config
service_name = "abc"

// WLS Edition
wls_edition = "EE"
# SE, EE, SUITE

// WLS Version
wls_version = "12.2.1.3"
# 12.2.1.3, 12.1.2.4, 11.1.1.7

// WLS instance shape
instance_shape = "VM.Standard2.2"

// WLS instances count
wls_node_count = "1"

// Database port
db_port = "1521"

// Add LB
add_load_balancer = false
lb_use_https = false
is_lb_private= false

// Add IDCS
is_idcs_selected = true
idcs_host = "<host>"
idcs_port = "443"
idcs_tenant = "<tenant>"
idcs_client_id = "<ID>"
idcs_client_secret_ocid = "<OCID>"
idcs_cloudgate_port = "9999"

// WLS admin Credentials
wls_admin_user = "<User>"
wls_admin_password_ocid = "<password OCID>"

// WLS custom image ID
instance_image_id = "<OCID>"

// WLS and VCN compartment ID
compartment_ocid = "<OCID>"
network_compartment_id = "<OCID>"

// Existing_vcn
wls_existing_vcn_id="<OCID>"

// Existing_subnet
wls_subnet_id="<OCID>"

// Existing LB Subnet
lb_subnet_id="<OCID>"
```

```
// Existing Bastion Subnet
bastion_subnet_id="<OCID>"

// This is for New VCN
wls_vcn_name="wls_vcn"

// WLS subnet CIDR, LB Backend and Frontend Subnet CIDRs for new
subnets that will be created.
wls_subnet_cidr = "20.0.0.0/10"

lb_subnet_1_cidr = "10.0.94.0/11"
lb_subnet_2_cidr ="10.0.95.0/11"
// not used for regional subnet - uncomment for non-regional.

// Bastion host subnet CIDR.
// Required for existing VCN and if not using existing bastion subnet
(see bastion_subnet_id)
// And if assign_weblogic_public_ip = false (using private subnet).
bastion_subnet_cidr="10.0.86.0/11"

// VCN Peering Parameters
ocidb_dns_subnet_cidr = "10.0.7.0/11"
wls_dns_subnet_cidr = "13.0.7.0/11"

// Private Subnet Config
assign_weblogic_public_ip = true

// Regional subnet config
use_regional_subnet = true

// WLS Console Port
wls_console_port="7001"
```