



ITA_System Configuration / Environment Construction Guide

Terraform-CLI-driver

—Version 1.11 —

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※"Exastro IT Automation" is written as "ITA" in this document.

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Introduction

This document describes the system configuration and environment construction required in order to operate the Terraform option function (hereinafter written as Terraform CLI driver) in ITA.

To use the ITA Terraform CLI driver, the basic ITA functions must have been built. Please refer to "System Configuration/Environment Construction Guide - Basics" for constructing ITA basic function.

1 Function

The Terraform CLI driver provides the following function.

Table 1. Function name

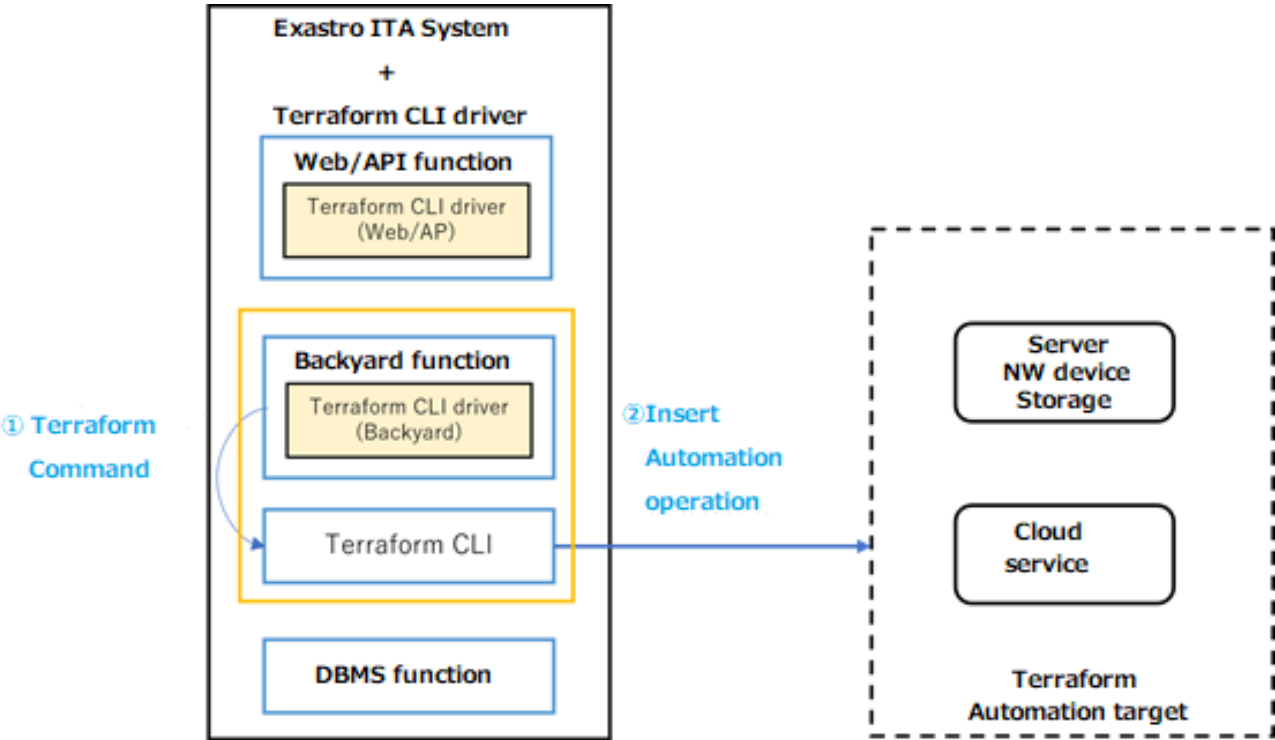
No	Function	Application	WEB/AP	BackYard
1	Terraform CLI driver	Uses Terraform via ITA to generate execution plans and executes the construction based on the coded infrastructure configuration.	⊙	⊙

2 System configuration

2.1 System configuration

The system configuration for the Terraform CLI Driver is the same as the ITA System.

※The following diagram illustrates a Terraform configuration. The ITA system is not included in the diagram. For more information, see "Exastro-ITA_System_Configuration_Environment_Construction_Guide_Basic"



2.2 System connection requirements

The table below contains the connection requirements for the different services in this system configuration

For more information regarding the connection requirements for the ITA System, please see "Exastro-ITA_System_Configuration_Environment_Construction_Guide_Basic".

Table 2.2 Connection requirements list

Connection No.※1	FROM	TO	Protocol [Port number ※2]	Main application
①	ITA server (Backyard function)	Terraform CLI	https [443/tcp]	Runs Terraform commands from the Backyard function
②	Terraform	Target device	Any (Differs depending on the Terraform provider)	Runs commands and inputs API commands to the Target device/Cloud service from Terraform.

※1 Describe the connection numbers linked to the numbers in the diagram in " 2.1 System configuration".

3 System requirements

Since Terraform driver (ITA side) is based on system requirements of ITA system, please refer to "System Configuration/Environment Construction Guide - Basics". This section describes the requirements for using BackYard.

- BackYard

Table 3-1. Linux commands required for Terraform backyard

Command	Version	Remarks
Terraform	v1.3.7 or later	
zip		

Python Library

Table 3-2. Terraform driver system requirements

Name	Requirements	Remarks
python-hcl2	Python3.6 or later	Both WebAP Server and BackYard server is required.