

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.

# 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. | ◎ | ◎ |

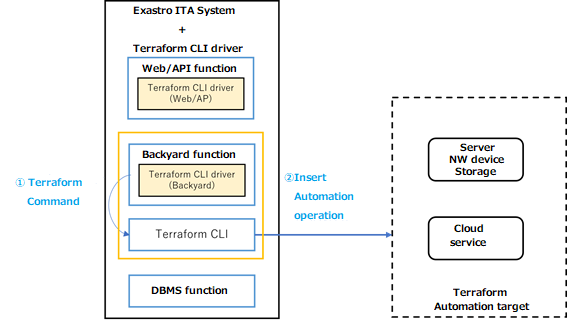
# System configuration

## 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".

# 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. |