



ITA_System_Configuration/Environment_Guide

CI/CD For IaC

—Version 1.11—

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Terminology and definitions

This document uses the following terminology.

Terminology	Definition
ITA	Abbreviation for “Exastro IT Automation”
Link source file	Git repository source files that are linked using the CI/CD for IaC function
Link destination function	Refers to the ITA link drivers (Ansible-driver and Terraform-Driver and Terrform-CLI-Driver).
Link destination file	Refers to the files uploaded from the following ITA drivers (Ansible-driver and Terraform-Driver). <ul style="list-style-type: none">• Ansible-Legacy/Playbook file collection• Ansible-Pioneer/Dialogue file collection• Ansible-LegacyRole/Role package list• Ansible common/File list• Ansible common/Template list• Terraform/Module files• Terraform/Policy list• Terraform-CLI/Module files

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1 Introduction

This documents explains the system configuration and environment construction needed in order to use the ITA CI/CD For IaC function. In order to use the CI/CD for IaC function, ITA must have its basic functions as well as its Link destination functions installed.

For more information regarding constructing ITA's basic functions, please refer to the "System_Configuration/Environment_Guide_Basic" manual. For more information regarding constructing the Link driver functions, please refer to the respective driver's system configuration/environment construction guide. .

2 CI/CD For IaC overview

The CI/CD For IaC can be divided into two functions. For more information, please see the "Exastro-ITA_User_manual_CI/CD For IaC" manual.

Table 2-1 CI/CD For IaC function overview

No	Function name	Application	WEB contents	BackYard contents
1	Git link function	This function creates a clone of the Git repository within ITA. It will also use the clone to check any updates that might have happened to the source files which will be listed in ITA's "Remote repository file" menu.	○	○
2	File link function	This function links the link source file and the link destination file and then register an Operation and Movement in order to verify the link source file. If the link source file gets updated, the link destination file will be automatically updated. An Operation and Movement will be run to check the files.	○	○

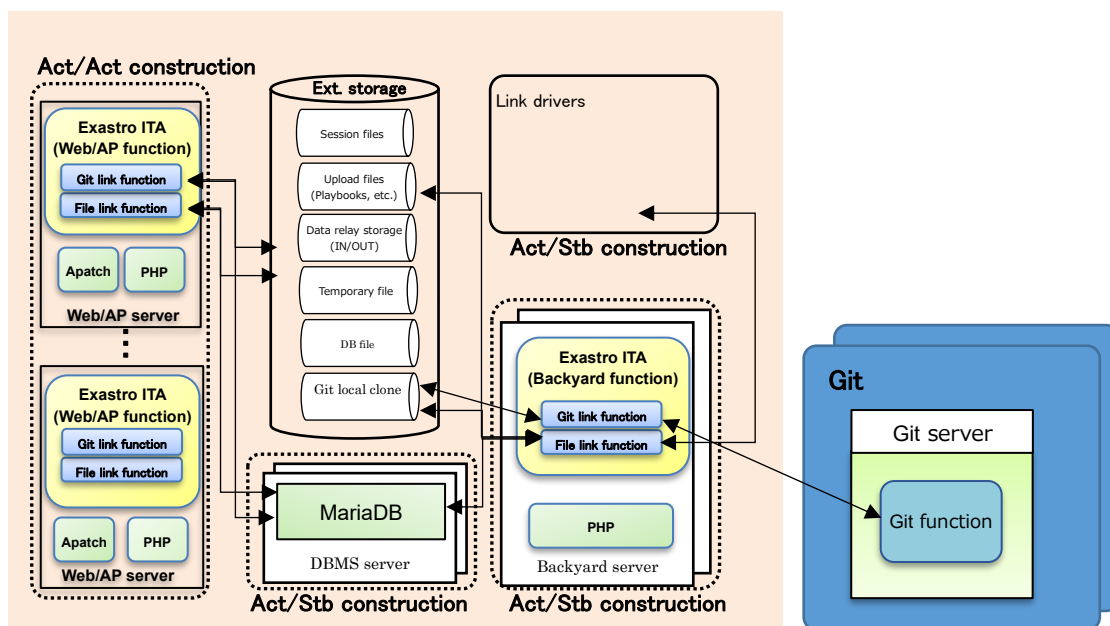
3 System construction

The system construction for the CI/CD For IaC function is the same as the ITA system.

The following figure displays a system configuration where the Git repository is on its own server different to the CI/CD for IaC function. (A configuration where they're both on the same server is possible) Users can also link to a Git repository from GitHub and GitLab..

※ The construction figure below is simplified. Please refer to the following documents for more information.

- "System_Configuration/Environment_Guide_Basic"
- "System_Configuration/Environment_Guide_Ansible-driver"
- "System_Configuration/Environment_Guide_Terraform-driver"
- "System_Configuration/Environment_Guide_Terraform-CLI-driver"



4 System requirements

The system requirements for the CI/CD For IaC function is as follows. As the system requirements are based on the ones for ITA, please refer to the following document.

- Git package

Table 4-1 Git package system requirements

Package	Version	Remarks
Git	1.8.3.1(RHEL7 type) 2.27.0 (RHEL8 type)	These versions are verified versions.