

ITA\_System Configuration/

Environment Construction Guide

Cobbler-driver

*－* Version 1.3*－*

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

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# Introduction

This document explains the system configuration and environment construction for operating Cobbler as an optional function (referred to as Cobbler driver hereafter) in ITA.

To use the ITA Cobbler driver, it is assumed that the basic ITA functions have been constructed. Please refer to "System Configuration/Environment Construction Guide - Basics" for constructing ITA basic function.

# Function

Cobbler driver provides the following function.

Table 1 Function name

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Function name | Use | WEB  Content | BackYard  Content |
| 1 | Cobbler driver  (ITA side) | Configure the network installation of server from ITA | ◎ | ◎ |
| 2 | Cobbler driver  (Cobbler side) | Interface that relays between ITA and Cobbler | － | ◎ |

# System configuration

## General configuration

The system configuration of Cobbler driver is same as the ITA system.

Cobbler driver is considered to be configured in a dedicated Cobbler server separated from the ITA server.

(Consolidating the construction into one server is also possible)

This figure shows a configuration that Cobbler server is added to the balanced HA type, which is the recommended configuration for the ITA system.

※ The figure here is a omitted version. Please refer to "System Configuration/Environment Construction Guide - Basics" for details.

Cobbler Server

ITA System/Cobbler driver

Web server [ACT]

Web server [ACT]

Web

function

Web server [ACT]

DB connection

information

Load balancer

AP/DB server [SBY]

AP/DB server [ACT]

Session

management

Cobbler API server

**CobblerDriver**

**(Cobbler side)**

Cobbler

BackYard

function

Uploaded file

DB

**Cobbler**

**Driver**

**（ITA side）**

Configuration

target device

Server

Server

Server

DBMS

DB connection

Information

External installed data

## All-in-One type configuration

The figure below shows the configuration when ITA system and Cobbler system is in the same server.

※ The figure here is a omitted version. Please refer to "System Configuration/Environment Construction Guide - Basics" for details.

ITA system＋Cobbler system/Cobbler driver

１- Server ［SBY］

ITA

Web

Function

DB

Session management

Uploaded

file

BackYard function

DB connection

information

1. Server ［ACT］

DBMS

CobblerDriver

Cobbler side

CobblerDriver

ITA side

Data relay storage

Cobbler

Configuration

Target device

Server

Server

Server

### Notes when operating ITA system and Cobbler system on the same server

When using CobblerWeb, the server in which both the ITA system and the Cobbler system are installed must have separate http server Listen ports for the ITA Web system and CobblerWeb to work without conflict.

The following describes the notes when installing 2 Apache as http servers.

In the case of placing 2 Apache in different directory, both of the executable file (httpd) will be placed in /etc/init.d during installation. At that time, in order to prevent the executable file from being overwritten in the subsequent installation, change the name of executable file that has already been installed in the first installation is necessary.

Also, please set the httpd.conf and the associated setting file to avoid duplication of ports.

When opening the Web page whose port is not the default port, users can access the page by adding :(port number) after the server name like "http://exastro-it-automation:8080/webdbcore/~~".

ITA system＋Cobbler system server

[exastro-it-automation]

Apache-2

Apache-1

WEB system

Cobbler

system

ITA system

**Port**

**80**

http://exastro-it-automation/

**Client**

WEB system

http://exastro-it-automation:8080/

**8080**

＊The case above is for HTTP access

# System requirements

Since Cobbler 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 Cobbler driver (Cobbler side).

Table 3 Cobbler driver (Cobbler side) system requirement

|  |  |
| --- | --- |
| **Package** | **Version** |
| Cobbler | 2.6 or higher |
| Apache\* | 2.2 series　/　2.4 series |

\* Most of the time, Apache is installed during Cobbler installation

# Prepare shared directory between Cobbler driver (ITA side) and Cobbler driver (Cobbler side)

Please prepare a shared directory which both Cobbler driver (ITA side) and Cobbler driver (Cobbler side) can refer to.

After installing Cobbler driver (ITA side) and Cobbler driver (Cobbler side), it is required to register the shared directory to ITA system. Please refer to "Interface information" in "User instruction manual - Cobbler-driver" then perform the registration.

However, if the ITA system and the Cobbler system are operated on the same server, any directory that is not mounted as the share directory can be used.