Table of contents

Window – App Build Environments

Window – *“App Build Environments”*

Function

The window *“App Build Environments”* provides the option to automatically create Linux build environments on a Windows PC to develop ctrlX OS apps in the ctrlX AUTOMATION environment.

By adding an *app build environment*, a directory with the different batch files is created.

Upon the first start of a build environment, a current Linux system image is downloaded and all software packages required for app development are automatically installed on this operating system. This operation can take up to 15 minutes, depending on the internet connection.

If the initialization of the build environment is successful, the build environment can be started as emulation. The build environment can be contacted via the set SSH port.

Visual Studio Code → https://code.visualstudio.com/ is recommended as source code editor.

Install a remote SSH extension in Visual Studio Code to connect to the build environment and to develop and build apps.

Further information to create apps with the ctrlX Automation SDK can be found on GitHub: https://boschrexroth.github.io/ctrlx-automation-sdk/

If no ctrlX OS app build environment has been created on the control, the window displays the ⊕ *“Add a ctrlX OS App Build Environment”* window. After adding a configuration, command bars and the table including the entry of the connection are displayed on the page.

Call:

ctrlX WORKS side navigation *App Build Environments*

Elements of the *“App Build Environments”* window

GUI element	Description
Command bar	*“[x] item(s)”* Number of listed ctrlX OS app build environments ↻ Refresh current page

GUI element	Description
	+ Add a ctrlX OS App Build Environment is added to the table. The dialog *“Add ctrlX CORE App Build Environment”* opens, see ↘ “Dialog - *“Add ctrlX CORE App Build Environment”*“” Adding the ”
Table	*“Name”*: Build environment name *“State”* Operating state of the build environment. A build environment can assume four operating states: ▪ *“Offline”*: The build environment is not running ▪ *“Initializing”*: Build environment was downloaded and is installed ▪ *“Booting”*: Build environment was started but could it was not possible to establish a connection via SSH ▪ *“Online”*: Build environment was started successfully and a connection can be established via SSH ▪ *“Shutdown”*: The build environment was stopped and the system shuts down ▪ *“Shutdown”*: The build environment was stopped and the system shuts down *“Type”* Process architecture of the build environment *“SSH”* SSH address of the control. In the operating state “Online”, the name and the SSH address become hyperlinks. Click on the links to open the Windows SSH Client

GUI element	Description
	“Actions” Includes buttons to start/stop, edit and delete the build environment. Deleting and editing is only possible in stopped state. ▷ or □ Starting and stopping the ctrlX OS app build environment  Editing the properties of this ctrlX OS app build environment. This is only possible in the stopped state, refer to ↘ “Sidebar – *“App Build Environments <Build environment name>”*”  Deleting a ctrlX OS app build environment

Further information

- ↘ “Dialog - *“Add ctrlX CORE App Build Environment”* “” Adding the ”
- ↘ “Sidebar – *“App Build Environments <Build environment name>”*”
- ↘ “ctrlX WORKS – Basics”