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Function

The window “App Build Environments” provides the option to automatically create Linux build environments on a Windows PC to develop ctrlX CORE 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 CORE app build environment was created on the control, the button  “Add a ctrlX CORE App Build Environment” is displayed in the 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	<p>“<i>[x] item(s)</i>”</p> <p>Number of listed ctrlX CORE app build environments</p> <p></p> <p>Refresh current page</p>

GUI element	Description
	 <p>Add a ctrlX CORE App Build Environment is added to the table. The dialog <i>“Add app build environment”</i> opens, see ↘ <i>“Dialog – “Add ctrlX CORE App Build Environment””</i></p>
Table	<p><i>“Name”</i>: Build environment name</p> <p><i>“State”</i> Operating state of the build environment.</p> <p>A build environment can assume four operating states:</p> <ul style="list-style-type: none"> ■ <i>“Offline”</i>: The build environment is not running ■ <i>“Initializing”</i>: Build environment was downloaded and is installed ■ <i>“Booting”</i>: Build environment was started but could it was not possible to establish a connection via SSH ■ <i>“Online”</i>: Build environment was started successfully and a connection can be established via SSH ■ <i>“Shutdown”</i>: The build environment was stopped and the system shuts down ■ <i>“Shutdown”</i>: The build environment was stopped and the system shuts down <p><i>“Type”</i> Process architecture of the build environment</p> <p><i>“SSH”</i> 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.</p>

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

Further information

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