

EVE-OS overview

Edge Virtualization Engine Operating System (EVE-OS) is a light-weight, open-source Linux distribution that provides a rich and secure platform for you to run virtual machines and containerized applications on your edge computing devices, which might include IoT gateways, Industrial PCs, or general-purpose ruggedized computers in the field.

You can install EVE directly on physical hardware (i.e., “bare metal”), or within a virtual environment (i.e., EVE-OS can run inside of a virtual machine).

EVE has its own, open-source, documentation. You can find it in the [official EVE repository's docs directory](#). This directory likely has the most technically detailed and up-to-date content about EVE. Note, however, that it does not contain content that will teach you directly how to use EVE with the ZEDEDA Cloud platform.

EVE and ZEDEDA Cloud

ZEDEDA Cloud functions as a centralized controller (an essential part of its role as a comprehensive edge computing platform) for your edge nodes, enabling you to manage and orchestrate them at scale. An **Edge node** is any edge computing device that's running EVE.

Note: the terms "edge device" and "edge node" are often used interchangeably, but a distinction is made here to describe the function of EVE.

ZEDEDA Cloud's role as an EVE controller is to:

- Manage and orchestrate edge nodes and the edge applications running on those nodes.
- Monitor edge nodes and applications, collect metrics, and generate alerts and notifications to keep you informed of the state of your edge assets.
- Enforce your security policies and ensure the integrity of your edge assets.

In addition to the aforementioned functions, ZEDEDA Cloud enables you to automate all of these activities using its API.

To install EVE onto one of your edge devices, you'll need an installer file called an **EVE image**. Each EVE image can be used to install a specific version of EVE onto any number of edge devices.

Next steps

Read our [guide about EVE images](#) to learn more about them and how to use them with ZEDED Cloud.

Or, if you'd like to install EVE, read to our [guide about getting an EVE image](#), the first in a series of guides to the standard install process.