

Edge infrastructure and container orchestration with security at heart

There is an explosion of data at the edge, resulting from more connected devices, machines, sensors and applications. Moving these massive amounts of data to the cloud for processing is impractical given the operational cost (bandwidth, latency, autonomy, security, and privacy) and potential short half-life of the data. The only way to get value from this data is by processing it at the edge.

Processing this data at the edge requires infrastructure able to handle the scale and heterogeneity of a vast hardware and application landscape. More so, these applications must be outage-resilient and provide blazing-fast performance.

Together, ZEDEDATA and Avassa have teamed to solve these unique challenges with a joint solution that seamlessly extends deployment, security, and orchestration capabilities across diverse edge environments.

ABOUT ZEDEDATA

ZEDEDATA makes edge computing effortless, open, and intrinsically secure – extending the cloud experience and agility to the edge. ZEDEDATA reduces the cost of managing and orchestrating distributed edge infrastructure and workloads, while increasing visibility, security, and control.

ABOUT AVASSA

Avassa is a container orchestration and monitoring solution purpose-built for your edge, while keeping the developer self-service experience application teams have grown to love in the central cloud. Your application teams can apply deep automation with a declarative configuration in distributed environments, where application location matters. Avassa enables your team to orchestrate containerized application workloads using tools and practices well-known from the cloud in environments.

TECHNOLOGY BLUEPRINT

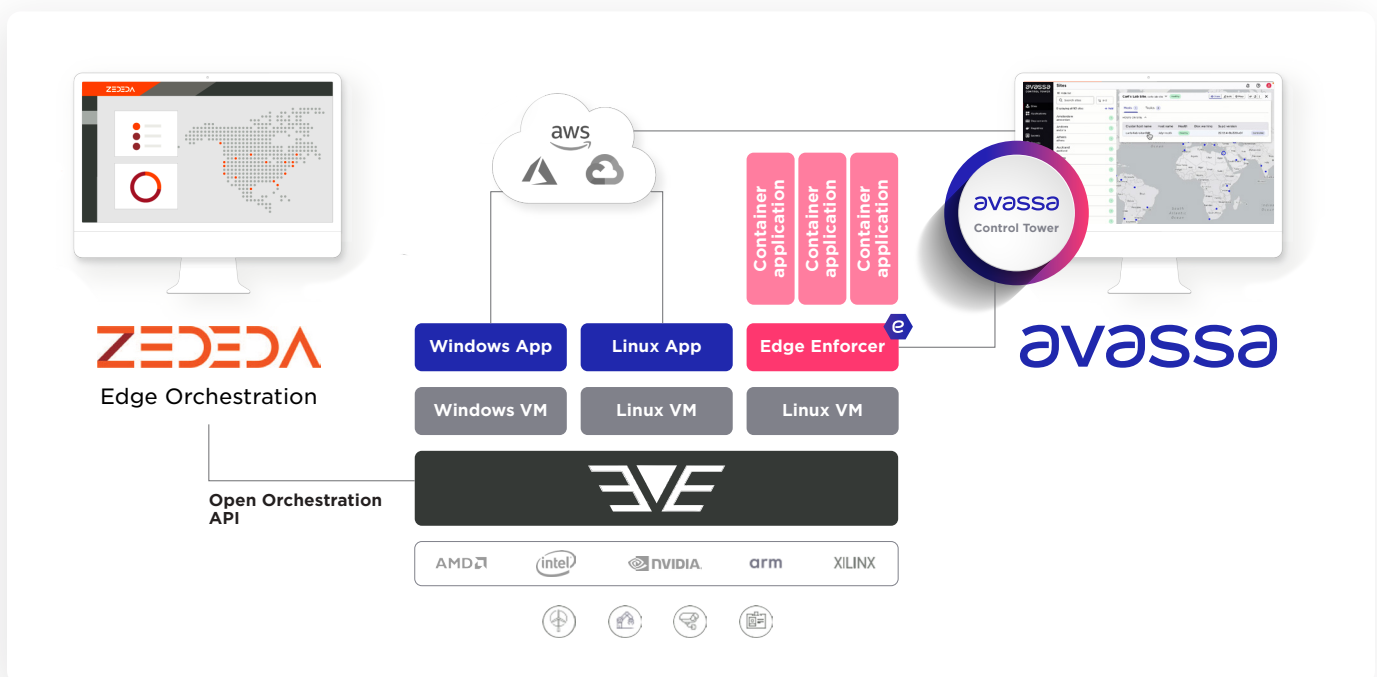
The Avassa platform consists of two software components; The Control Tower and the Edge Enforcer. The Control Tower, available as a service or installed in your private data center, manages the lifecycle of distributed edge resources and containerized applications through user interfaces and APIs. The Edge Enforcer is a containerized agent application installed on each host, enabling unique edge site autonomy and application continuity — and with a very small performance and space footprint.

ZEDEDA delivers an open, distributed, cloud-native edge management and orchestration solution, simplifying the security and remote management of edge infrastructure and applications at scale.

ZEDEDA leverages an open architecture built on Project EVE, from the Linux Foundation. EVE is a lightweight, open-source Linux-based edge operating system, with open orchestration APIs. EVE runs on over 75 different hardware platforms providing customers the flexibility to choose the ideal configuration for every workload.

Avassa and ZEDEDA together provide a complete edge infrastructure and application stack. Users leverage ZEDEDAs edge-native infrastructure solutions, including EVE and virtual machine capabilities for Linux and Windows applications, together with Avassa's container application platform.

The Avassa Edge Enforcer is installed on edge hosts in minutes through the ZEDEDA marketplace. It automatically calls home to the Avassa Control Tower and users can immediately deploy and monitor containerized applications across their edge environments alongside VM-based (e.g. Windows) applications they have running on ZEDEDA.



By leveraging the Avassa and ZEDEDATA joint solution, enterprises benefit from easy, efficient, and robust edge orchestration, without ever being needed to compromise on security posture across VM- and container-based applications.

The joint solution provides a full stack spanning hardware, hypervisor, operating system, container runtime and integrations with modern IT operations stacks to deploy and monitor applications.

This approach prevents siloed application stacks and streamlines your edge application orchestration capabilities, combining business-critical VM-based applications with container applications on the same infrastructure.

With ZEDEDATA, users can run non-containerized applications on hardware-agnostic compute. Avassa adds to that the ability to utilize the control tower and extend a self-service developer experience for their container application stack — onto the very same hardware.

VERTICAL AND USE CASE EXAMPLES

While the Avassa - ZEDEDATA solution is horizontal, significant benefits are found within industries such as:

- **Industrial & manufacturing** such as factory floors, production lines and AI-based surveillance equipment
- **Oil and gas** such as gas stations with digital innovations, pay-by-plate features, or remote well monitoring
- **Automotive** such as secure delivery of vehicle updates, managing applications for EV infrastructure, and modernizing manufacturing and supply chain infrastructures
- **Renewable energy** such as solar panel tracking and predictive maintenance across highly distributed environments
- **Retail** to create tomorrow's digital experiences and outage-resilient POS in retail stores

Ready to learn more?

Contact your Avassa or ZEDEDATA sales representative or reach out at sales@avassa.io or sales@zededa.com to book a demo.