

The application-centric and cloud-operated edge

Edge computing places computers and applications close to users and sources of data. With the snowballing growth of decentralized data sources and associated challenges around privacy, autonomy, performance, and economics, the need to run applications close to users and machines is greater than ever.

Running applications on the edge has historically been a very manual story. Operating systems and applications have been treated as single packages in traditional IoT environments, with upgrades performed through truck-rolls and USB sticks.

As the pressure to provide a more cloud-like innovation cycle increases, platform and application teams are looking for ways to fully automate the management of all the components in the stack, and integrate that with their existing tools and processes.

Don't let manual management limit innovation power at the edge

Managing a full hardware-and-up edge stack across hundreds of locations can be a daunting task. The platform team needs to manage the compute resources, networking, and storage while keeping the hypervisor, operating system, and container runtime updated.

The application teams need to be able to use their existing tools and processes to deploy and manage the lifecycle of a wide variety of applications all the while monitoring their health. This calls for integrated, efficient and automated tooling.

Automate and innovate edge environments at scale

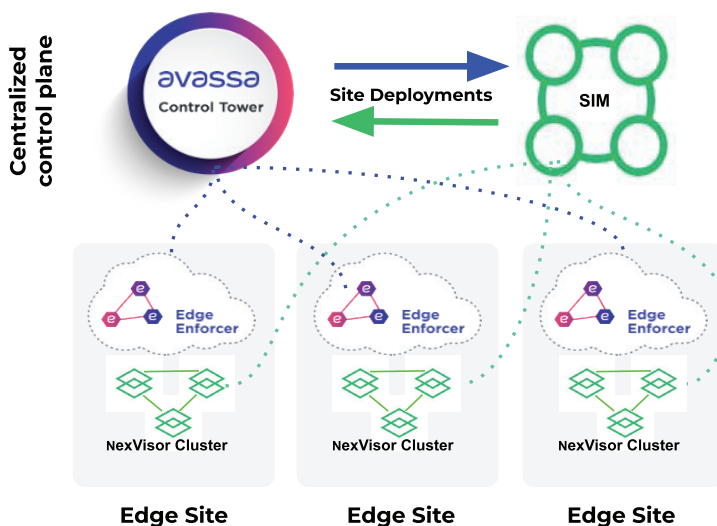
Sunlight's solutions make running and managing your edge infrastructure as easy as the cloud. Sunlight's Hyperconverged Edge platform is based on the Sunlight NexVisor Hypervisor.

This is a Type 1 Hypervisor built from the ground-up to support today's high performance hardware technologies with almost zero overhead. By turning all your edge locations into 'micro-clouds' Sunlight allows IT, platform, and infrastructure teams to manage 100s or 1000s of these with a central dashboard in any core cloud – increasing efficiency in distributed environments or securing a future-proofed infrastructure from scratch.

The Sunlight Infrastructure Manager (SIM) is a single UI or API to manage all of your Edge locations. Integrated into the SIM is the Sunlight Marketplace, based on the Ansible framework. Marketplace enables automation of resource configuration and on-demand application deployment onto the Sunlight platform via Recipes. The Recipes contain all the infrastructure, resource and application configuration information required.

Avassa is an application-centric platform for managing containerized applications. Application teams can apply deep automation with a declarative configuration in distributed environments, where application location matters. Avassa enables teams to orchestrate containerized application workloads using tools and practices well-known from the cloud in environments.

Through joint engineering work, Avassa and Sunlight have integrated the two platforms to allow for seamless deployment of the Avassa Edge Enforcer onto the Sunlight platform via the SIM API. We have created a Recipe in the Marketplace for the Avassa Edge Enforcer that can be called via API from the Avassa Control Tower.



The joint solution from Sunlight and Avassa provides a fully automated and integrated edge stack that meets the requirements of both the platform teams and the application teams in one comprehensive and simple-to-use offering.

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