Fast-track container applications in diverse edge environments

Years ago, cloud computing changed our idea of digital agility. Organizations augmented or replaced traditional data centers with cloud environments. In turn, they enjoyed better access to the right amount of compute resources when they needed them, while saving time and money.

Designing a solution for scalable and cloud-like hosting of applications across edge infrastructure brings new requirements:

- The lifecycle of all software layers including the hypervisor, operating system, and container runtime must be automated to avoid costly and time-consuming manual tasks

- Monitoring and observability must happen across all layers and locations to provide an actionable view of the health of the system to avoid fragmented, context-less notifications that require manual investigation

- The combined solution must fit well with mainstream tooling across platform and application teams to avoid costly duplication of DevOps and operation stacks

The Avassa and Scale Computing partnership addresses the challenges of edge computing with a cloud operating model.

With containerization, edge applications can be deployed as a unit in a distributed manner without fundamentally reworking the underlying software architecture. Deploying containers at the edge correctly can accrue significant benefits in increased performance and lower costs in a competitive enterprise market.
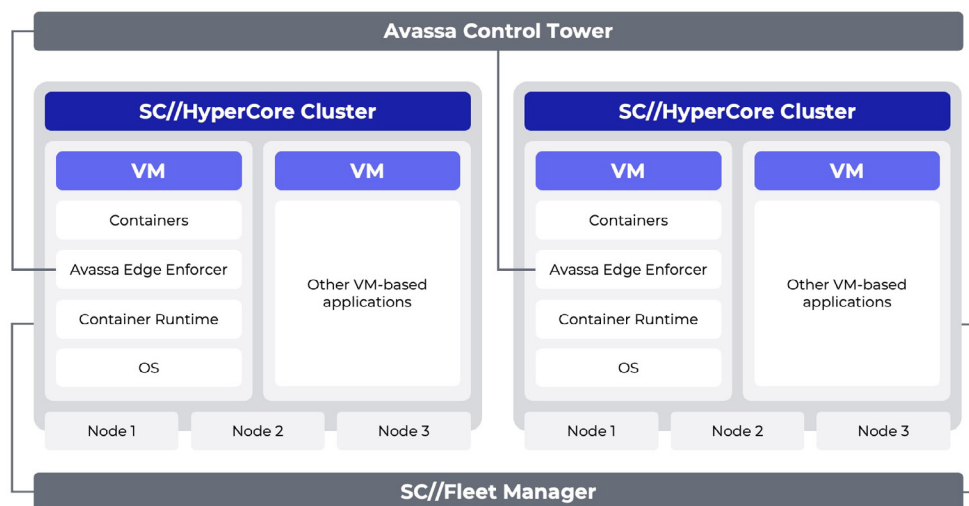
Better Together

Avassa manages containerized applications, and is deployed onto physical or virtual hardware on a running operating system with a container runtime already installed. This can be automated and simplified by SC//HyperCore. Scale Computing HyperCore first deploys the Avassa Edge Enforcer as a container with details to connect it back to the Avassa Control Tower, which gets instructions for what container applications should be running on the VM.

Simply - Avassa's Control Tower manages the applications running on top of Scale Computing VMs.
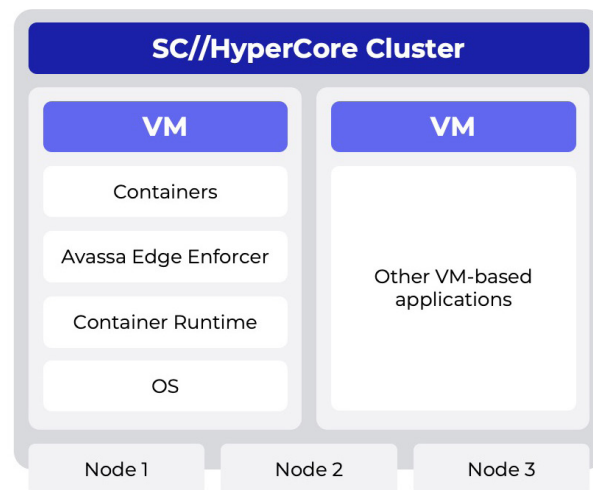
The Edge Enforcers in each edge site run VMs on a Scale Computing cluster with their agent + Container Runtime

Scale Computing provides local high availability (including data persistence) at the edge and allows you to manage the hardware and underlying OS, the virtual machine OS, and container runtime. Back up your applications and data, run multiple applications on the same device, and legacy VMs along with your containerized applications.

Using Avassa and Scale Computing, you can dynamically deploy, update, and monitor applications in containerized environments using targeted deployments, health and behavior observability, and complete lifecycle management.

avassa + SCALE COMPUTING   Learn more at avassa.io and scalecomputing.com.