

DATA SHEET

Z-Brain – ZeroStack’s “Learning-Engine”

ZeroStack Delivers

ZeroStack’s Intelligent Cloud Platform is a fully integrated cloud solution that delivers a private cloud with the ease of use of a public cloud at a fraction of the cost. This solution is fully integrated with public clouds to offer seamless migration between clouds.

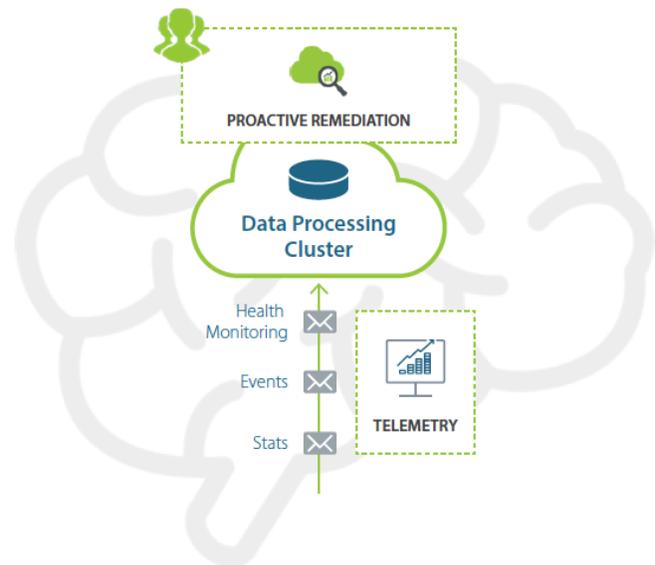
Three Key Innovations

Z-COS: ZeroStack’s cloud operating system converts servers in to a hyper-converged cloud faster than any other vendor, and with integrated intelligence works in tandem with Z-Brain to build the world’s first self-driving cloud. Z-COS is a fully integrated stack and includes software-defined storage (SDS), software-defined networking (SDN), a full-functioned hypervisor and a distributed, self-healing control plane.

Z-Brain: ZeroStack’s intelligent software dramatically reduces operational tasks, and learns by leveraging a big-data layer that stores and analyzes rich telemetry using AI and machine learning which take the guesswork out of capacity planning, upgrades, ongoing management and troubleshooting. The on-premises infrastructure is consumed via a SaaS-based user interface, running in the cloud.

Z-AppStore: The integrated App Store enables 1-click deployment of many applications for rapid application development and deployment.

ZeroStack’s Z-Brain proactively drives your private cloud without the need of any on-premises management software or cloud expertise.



Key Functionality

- Security & compliance
- Self-service portal with built-in approval system for resource allocation
- Seamless integration with AWS, multi-cloud support
- Application migration across clouds
- Big-data analytics driven monitoring & troubleshooting
- Instant provisioning, automated workflows for common tasks as-a-service
- Granular analytics-based capacity planning & expansion, chargebacks & showbacks
- Proactive software-driven project-level capacity planning
- Multisite cloud administration

| Functionality | Description |
|--|--|
| Security & Compliance | <p>ZeroStack ensures compliance by giving customers the ability to attribute every cloud action to a user. The unique timeline view collects data about all operations performed on the cloud, including all user creations and logins, object creation, removal and cloning amongst others. User actions are automatically added to the timeline of events and inventory, thus making data readily available for auditing and compliance purposes.</p> <p>The data resides on premises including VMs, data stores, users, and credentials. ZeroStack provides security from within the enterprise to the ZeroStack Cloud by using a unidirectional communication port (443) and encrypted SSL-based communication. IP addresses for the corporate firewall (including those assigned to the Cloud Building Block hosts) are not accessible from the cloud. ZeroStack uses role-based access control (RBAC) and enables multiple roles, each with a set of capabilities.</p> |
| Self-service portal with built-in approval system for resource allocation | <p>The self-service portal allows developers and IT to test, build or deploy applications within minutes, without going through a ticketing system. Admins can create projects with certain quotas in terms of CPU, memory, storage space and network resources. Users can then consume these projects in a self-service manner. They can create VMs, volumes, private networks, routers and assign security rules on a per VM level. For some of the resources like project creation, the portal allows customers to have approval workflow for better control.</p> |
| Seamless integration with AWS, multi-cloud support | <p>Customer AWS accounts can be added as a cloud resource provider into the ZeroStack’s SaaS portal. Once an account is added, ZeroStack can discover and show all the workloads running in AWS. Z-Brain enables migration of workloads from AWS to ZeroStack and vice versa and makes it ultra-simple with a few simple clicks. ZeroStack implements granular project level management and control paradigm project with well-defined quotas and networking. A ZeroStack project maps to AWS Virtual Private Cloud (VPC) notion. As part of migration, ZeroStack handles all resources such as CPU, memory, virtual disks and network topology that is needed by the application. This allows seamless migration of multi-tier applications from AWS to ZeroStack or the other way.</p> |
| Application migration across clouds | <p>ZeroStack also provide seamless integration with VMware. Customers can add vSphere as a provider into the ZeroStack’s SaaS portal. Again, once an account is added, ZeroStack can discover and show all workloads running in vSphere. Z-Brain enables migration of workloads from VMware to ZeroStack and makes it ultra-simple with a few simple clicks. This allows customers to move from VMware to AWS also in a risk-free manner. In future, more cloud services (Azure, Google Cloud) will be added to the supported list.</p> |