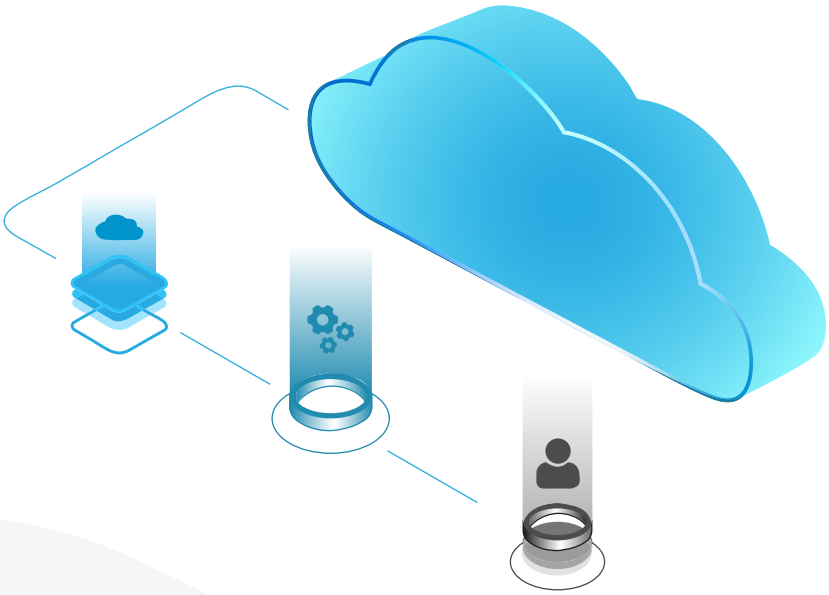
whitesky.cloud®

CLOUD AS A SERVICE

SOFTWARE DEFINED EDGE CLOUD AS A SERVICE



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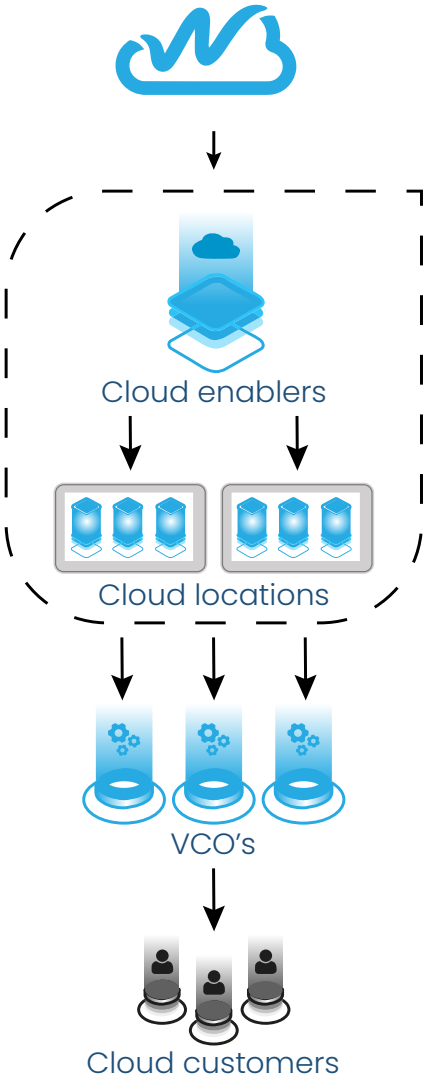


THE WS MODEL CLOUD AS A SERVICE

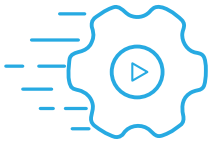
whitesky.cloud delivers IaaS and S3 cloud infrastructures for private and public use cases including IAC support, Kubernetes support, metered billing, invoicing, and payment solutions.

A whitesky.cloud customer is a cloud enabler. They own the hardware, create cloud locations, and take care of connectivity. The enabler can then sell white label cloud to their customer, the Virtual Cloud operator or VCO.

The Virtual Cloud Operator (VCO) has its own branded platform and sells managed cloud directly to their customer.

DevOps
TIME-TO-REVENUE

0 COST OPERATIONS



AUTOMATE OPERATIONS

Scalable operations for distributed edge clouds

To avoid traditional exponential cost increases of managing distributed environments, whitesky.cloud has developed unique self-healing capabilities as part of both its software and intelligent automated operations.

whitesky.cloud Meneja's high-performance operations center provides edge cloud-managed operations for distributed high-availability environments including:

- 24/7 active monitoring and automated alerting.
- Cloud automation, releasing updates of hardware (HW) and software (SW), and fully automated DevOps pipeline for distributed environments.
- 24/7 dedicated DevOps team for health checks, self-healing updates and remote management.
- Pro-active management of self-healing procedures and methods to solve issues automatically.
- Customer management dashboard tools for single views on Edge Cloud infrastructure and applications

Edge Cloud
CHANGE THE GAME

PROXIMITY

MOVE THE CLOUD TO THE DATA

Cloud-like experience at the edge or on-premises

whitesky.cloud redesigns the traditional data travels-to-the-cloud paradigm by moving the cloud in a powerful new way to the data, the user, the application or the developer directly.

With the massive growth of traffic at the edge of the Service Provider's (SP) network and inside enterprise networks, the demand for more on-tap compute and storage resources closer to the applications and the data is simply a necessity to improve performance and reduce costs.

Security and privacy needs require data to stay local or inside a private enterprise cloud. With a powerful modular SD Edge Cloud-as-a-Service approach, the whitesky.cloud technology allows an out-of-the-box cloud to be moved where needs arise.

Compute and storage capabilities can be delivered in an automated way, anywhere, as a public edge cloud service delivered by the SP or on premises for higher levels of data security.

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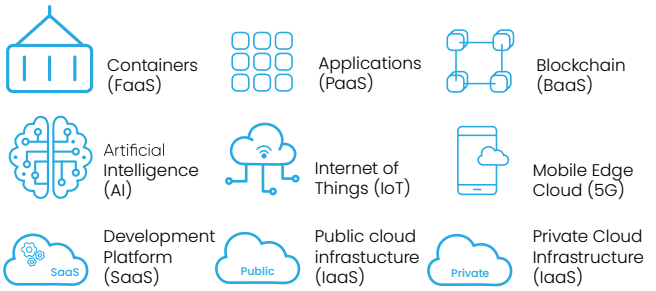
SOFTWARE DEFINED EDGE CLOUD AS A SERVICE

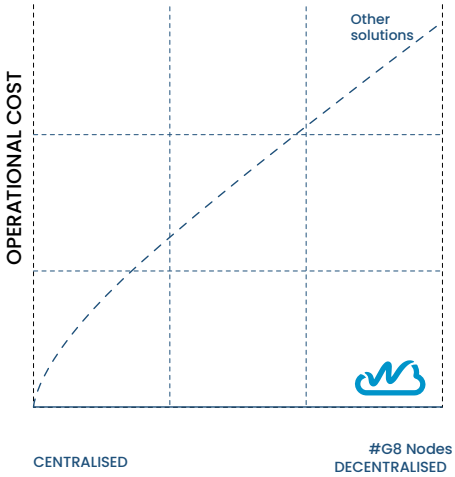
SERVING THE WIDER SCOPE OF EDGE SERVICES

Meeting the needs of various use cases cost efficiently

The fast evolution of use cases ranging from IoT and AI to Blockchain and Intelligent Applications as service offerings, requires Edge Cloud to serve a wider scope of business and application requirements, while remaining flexible and cost-efficient. Where most edge solutions offer costly point-specific dedicated solutions that are hard to scale beyond testing labs, whitesky.cloud provides an optimized way to address the combined needs of large enterprise customers as well as SME segments.

Edge Cloud adoption use cases and services





SHIFTING THE INVESTMENT PARADIGM

Day 1 Business value

whitesky.cloud changes the current CapEx intensive investment paradigm that comes with long development cycles into an operational service model that allows for fast service innovation cycles and rapid scaling everywhere in a low-touch way.
SPs can invest in service innovation to stay ahead of competition and focus on perfecting go-to-market cycles for a wide variety of use cases and services.

BUSINESS VALUE	whitesky.cloud	
Low entry cost business model for service innovation and business agility	Pay-per-use full stack as a managed service that can address the needs of many different use cases and market segments.	Traditional centralized solutions require high upfront investments in development, DevOps, and maintenance cost which slows down go-to-market focus.
0-cost operational model for complex edge environments	Designed for complex distributed systems resulting in improved manageability and performance. Automated operations and self-healing capabilities keep operational costs low when the number of nodes increases.	Capex and turn-key services approach is high in resources and operational costs. Centralized solutions are cumbersome and complex to manage in decentralized environments.
Pay-per-use model	All-inclusive pricing model with billing based on “actual” compute and storage used for Private or Public IaaS, S3 storage, and Applications.	Only available through public centralized hyper scale cloud for traditional IaaS and S3 storage.
White label solution	Virtual Cloud Operator (VCO) portals are fully white labeled and ready for own branding.	Does not exist.

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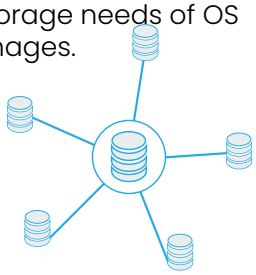
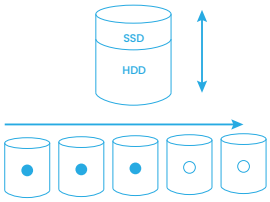
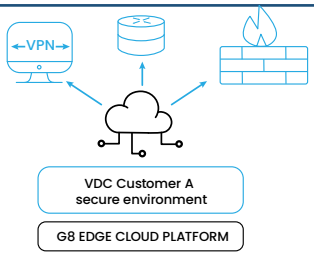
TECHNICAL BENEFITS

Reduction in hardware compute costs through virtualization of workloads	Kernel-based Virtual Machine (KVM) open source hypervisor for full virtualisation solution for Linux HW.		
Optimised storage for capacity and IO intensive workloads	Erasure coding for efficient storage of data through: • data stripping over multiple drives • parity segmentation to recalculate data if HW components fail	Optimised Operating System (OS) image deployment to reduce storage needs of OS images. 	Choice of storage through: • Active data on Solid State Drives (SSDs) • Inactive cold data on Hard Disk Drives (HDDs) 
Self-healing	Self-healing capabilities on software and hardware level reduce operational impact of storage system failures.		
Deployment of infrastructure-as-code through cloud automation	Cloud automation delivers storage and compute components in a cloud native Virtual Data center (Cloud Space). Out-of- the-box multi-tenant private or public IaaS and S3 storage with dedicated security features Cloud Space supports 1000's of Virtual Machines (VMs) or container workloads at reduced costs.		
Multi-tenancy for public	Each tenant's data is isolated and remains invisible to other tenants. SW can be deployed as a private IaaS and S3 storage offering or as a shared public IaaS and S3 storage solution and offers edge cloud-based data security and residency.		
Cloud of Clouds	Intercloud for cloud services based on combining many different individual clouds into one seamless on-demand operation across multiple SPs.		
whitesky.cloud IaC	Terraform, Ansible and Kubernetes plug-ins for Infrastructure as a Code and application automation. GUI and API driven deployment of applications on multiple locations.		
Maximum security and authentication per Cloud Space	Each secure Cloud Space comes with dedicated SD network and firewall.		
High availability and uptime	Increased network speed and application performance. High performance compute, storage, networking and API responsiveness through higher levels of over subscription commitments offering better performance than public clouds today.		
Modular Sizing	Installation of a full stack solution between ½ to 1 day depending on size. SW runs on tested and certified SuperMicro based HW.		
Billing API's and portal	Integrated invoicing, metered billing and collection solutions via the portal, customisable via the API.		

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