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Sybelle SDDC Platform

First Step to a Software-Based Future

QUICK VIEW

- Software-based architecture with hardware in dependent freedom of choice
- Flexible growth opportunity in all horizontal and vertical sources
- Built-in hypervisor with state-of-the-art features designed to meet enterprise computing infrastructure needs
- System virtualization and innovative hyperconverged infrastructure
- Integrated management of system, virtualization, network and storage resources
- Advanced network management with distributed virtual network architecture
- Flexible storage options (SAN, iSCSI, NFS, etc.)
- Centralized management of all services, virtual machines and physical resources running in the cluster via HTML5 web-based user-friendly interface
- Container services with persistent storage
- Internal backup/restore
- Professional corporate support services

OVERVIEW

Thanks to the Sybelle SDDC Platform, which offers software-based enterprise virtualization and container services infrastructure, virtualization, software-defined storage, advanced virtual network functions, micro-services and internal virtual machine backup/restore functions can be managed from a single interface.

With its feature that allows it to be installed on any hardware in x86_64 architecture; Sybelle SDDC Platform ensures the most efficient use of hardware resources and provides the closest performance to real hardware in virtual machines created with different operating systems.

With its built-in service and hypervisor, the Sybelle SDDC Platform combines high performance, flexibility and high availability. Since the integrated management interface is designed to work cluster-wide on the created hardware cluster, management/monitoring functions and backend services can continue to work uninterruptedly. In addition, it provides uninterrupted and stable operation of all services thanks to its distributed cluster architecture (with multi-master design), while providing ease of management with its integrated web-based interface.

CORPORATE SYSTEM VIRTUALIZATION AND CONTAINER SERVICES

Sybelle SDDC Platform is a System Virtualization Platform that provides ease of management for virtualization infrastructures of organizations of different sizes and requirements. It offers an enterprise platform with a hyper-converged infrastructure option with the integration of Software-Based Storage features.

Sybelle SDDC Platform simplifies management in the context of high availability, allowing system administrators to monitor the data they need most through a modern interface and graphical panels. Supports LDAP, MS AD, and local authentication and authorization, providing role/group-based authorization segmentation requirements. In addition, it provides REST API support for third-party software integrations.

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General Features

SYSTEM VIRTUALIZATION

- Support for 32/64 bit Linux and Windows based operating systems
- Hardware support in x86_64 architecture
- The performance closest to the hardware level thanks to the hypervisor
- Software-defined data center infrastructure where all services and functions can be managed/monitored from a single interface
- Creating a template image from virtual machines and creating new virtual machines from existing templates
- Linked/Full virtual machine cloning

HIGH ACCESSIBLE CLUSTER

- Scalability up to 64 physical servers per cluster
- Management service running in distributed architecture
- Stable and reliable virtualization infrastructure with Linux-based cluster features
- Cluster and physical machine features that can be managed via the interface
- Highly available distributed architecture
- REACT, HTML5-based easy-to-use web interface
- Multi-cluster management of different hardware types
- Live/uninterrupted migration of virtual machines between physical machines within the cluster
- Live migration of virtual disk files between storage pools defined within the cluster
- Ability to use all resources by parsing/limiting/authorizing (for multi-tenancy all CPU, storage network resources)

AUTHENTICATION

- Microsoft Active Directory (MS ADS)
- LDAP
- Internal user authorization service
- Authority-based segmentation within the cluster
- Authorization with predefined Role assignment
- User and/or group based segmentation

MULTI-TENANCY

- Isolation of resources and workloads by separating resources and authorities
- AAS & PAAS in private cloud
- User and Role based control

ADVANCED NETWORK FUNCTIONS

- Distributed virtual switch
- 802.1Q VLAN
- Enhanced network segmentation with VxLAN (RFC-7348)
- Port redundancy and load balancing (LACP, 802.1AD)
- Security policy enforcement (Layer4)

CONTAINER SERVICE SUPPORT

- External container image support
- Persistent data storage for container services
- Container transport
- Container network segmentation control

INTERNAL VIRTUAL BASED BACKUP / RESTORE

- Incremental backup for virtual machines (catalog incremental backup)
- Snapshots for live or offline virtual machine
- Automatic backup according to need profiles with flexible scheduling options
- Support for predefined local or remote storage units within the cluster (cloud, iSCSI, NFS, SAN storage) to store backups
- Management and monitoring of all backup and restore processes from the web interface

FLEXIBLE STORING OPTIONS

- FC or iSCSI block devices
- NFS or CIFS
- All-Flash (SSD or NVME)

PROFESSIONAL SUPPORT SERVICES

- Flexible SLA (Service Level Agreement) options
- 7x24x365 days corporate support
- Unlimited access to technical documents
- Flexible update and support package options

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Sybelle License Packages

Packages	BASIC	STANDARD	ADVANCED
GENERAL FEATURES			
Maximum Number of Servers in Cluster	3	–	–
Web Based Management Interface	●	●	●
Management of Entire Infrastructure from a Single Screen	●	●	●
Administrative Yüksel Accessibility with Distributed Management Layer	●	●	●
REST API	●	●	●
Seamless Cluster Scaling		●	●
Internal Monitoring*		●	●
VIRTUALIZATION FEATURES			
Virtual Machine Creation and Management	●	●	●
Thin Provisioned Virtual Disk	●	●	●
Virtual Machine Template	●	●	●
Seamless Live Virtual Machine Migration	●	●	●
Seamless Live VM Storage Migration	●	●	●
"Live Virtual Machine Source and Device Change (Disk, Network, CPU, Add/remove/update Memory)"	●	●	●
Virtual Machine Cloning	●	●	●
Live / Offline Virtual Machine Snapshot	●	●	●
Virtual Machine High Availability (Failover)	●	●	●
Dynamic Autonomous Resource Allocation (CPU, Memory)			●
CONTAINER HOSTING FEATURES			
External Container Image Support		●	●
Permanent Storage Volume		●	●
Internal Container Network Interface			●
DATA STORAGE CAPABILITIES			
Shared Block Device Support	●	●	●
Storage Networking Support (FC, iSCSI)	●	●	●
Network-Shared File System Support	●	●	●
• NFS	●	●	●
• Distributed File System (GlusterFS etc.)		●	●
Inline Deduplication / Compression		●	●
RAID-5 Erasure Coding		●	●
ADVANCED NETWORK FUNCTIONS			
Distributed Virtual Switch	●	●	●
Network Segmentation with VLAN Tagging (802.1q)	●	●	●
Advanced Network Segmentation with VxLAN (RFC-7348)			●
Advanced Network Segmentation with Network Filters			●
BUILT-IN DATA PROTECTION CAPABILITIES			
Virtual Machine Backup	●	●	●
Virtual Machine Restore from Backup	●	●	●
Backup Profiles for Regulatory Needs	●	●	●
Backup Destination Options	●	●	●
• Local	●	●	●
• Storage Network (FC, iSCSI)	●	●	●
• Network-Shared File System (NFS, CIFS/SMB)	●	●	●
• Amazon Web Services - S3			●
Incremental VM Backup and Snapshot		●	●
MULTI-TENANCY FEATURES			
Tenant Networking (L3 IP Assignments - Overlay Network)			●
Quota Profiles			●
Self-Service Portal *			●

*As of the 3rd quarter of 2023

BTS GROUP

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