BTS LABS

BTS Sybelle for Virtualization

First Step to a Software-Based Future

AT A GLANCE

- Open platform system virtualization
- Web-based control and monitor interface in a distributed architecture
- Hardware agnostic software defined architecture
- KVM based hypervisor
- Easy management of all services and features via web-based user interface
- High Availability (HA)
- Live/Seamless migration of virtual machines
- Embedded backup/restore
- Distributed virtual switch
- Professional enterprise support services

OVERVIEW

BTS Sybelle for Virtualization provides open platform System Virtualization infrastructure. Virtualization, software-based storage (software-defined storage), virtual network, and embedded virtual machine backup/restore functions could be managed from a single interface.

BTS Sybelle for VP is eligible to install on any x86_64 architecture hardware; therefore, yielding to the most efficient use of hardware resources. It offers a flexible management platform with clusters to be created in accordance with hardware specifications. It provides close hardware performance to Linux and MS-Windows based virtual machines.

It combines high performance, flexibility, and high-availability with built-in services and KVM based hypervisor within Linux infrastructure. Since the integrated management interface is designed to work cluster-wide on the created hardware cluster, the management/monitoring functions and back-end services would continue to operate seamlessly.

Via distributed cluster architecture (with multi-master design), it ensures uninterrupted and stable operation of all services, while it also provides ease of management with integrated web-based interface.

ENTERPRISE SYSTEM VIRTUALIZATION

BTS Sybelle for VP is a System Virtualization Platform that provides ease of management regarding virtualization infrastructure of organizations with varying sizes and requirements. BTS Sybelle for VP provides an open platform with a hyper-converged infrastructure option with integration of software-defined storage features.

BTS Sybelle for VP simplifies management by providing access to monitoring data that system administrators need most, through a modern interface and graphical panels with respect to high availability. Supports LDAP, MS AD, and local authentication and authorization, providing role/group-based segmentation requirements. Provides REST API support for third party software integrations.

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Key Features

ENTERPRISE VIRTUALIZATION

- Support for 32/64 bit Linux and Windows-based operating systems
- Hardware support in x86_64 architecture
- Near hardware performance with KVM based hypervisor
- Software-based data center (software-defined data center) infrastructure where all functions and services can be managed/monitored from a single interface
- Creating templates from virtual machines and new virtual machines from existing templates
- Linked/full virtual machine cloning

HIGHLY AVAILABLE CLUSTER

- Scalability of up to 16 physical servers per cluster
- Management Service running in a distributed architecture
- Stable and reliable virtualization infrastructure with Linux-based cluster features
- Cluster and physical machine features manageable via interface
- Highly available distributed architecture
- REACT, HTML5-based easy-to-use web interface
- Multiple cluster management consisting of different hardware types

DISTRIBUTED VIRTUAL NETWORK

- Distributed virtual switch
- VLAN/VxLAN support
- TCP/IP support
- IPv4
- Security features via NetworkFilter

AUTHENTICATION/AUTHORIZATION

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

LIVE/SEAMLESS MIGRATION

- Live/seamless migration of virtual machines between physical machines within the cluster
- Live migration of virtual disk files between storage pools defined within the cluster

EMBEDDED BACKUP

- Incremental backup for virtual machines
- Instant data backup for live or offline virtual machine (live/offline snapshots)
- Automatic backup with flexible scheduling options and template profiles
- Local or remote storage support, predefined within the cluster to store backups
- Management and monitoring of all backup and restore operations from the web interface

FLEXIBLE STORAGE OPTIONS

- Linux LVM with XFS
- FC & iSCSI
- NFS & CIFS
- Distributed storage support
- LVM cache for storage pools

OPEN PLATFORM

- KVM Hypervisor
- REST API support
- Code reposity on Git
- Bug tracking and monitoring

PROFESSIONAL SUPPORT SERVICES

- Flexible SLA (Service Level Agreement) options
- Continious enterprise support opportunity
- Unlimited access to technical documents
- Flexible update and support package options