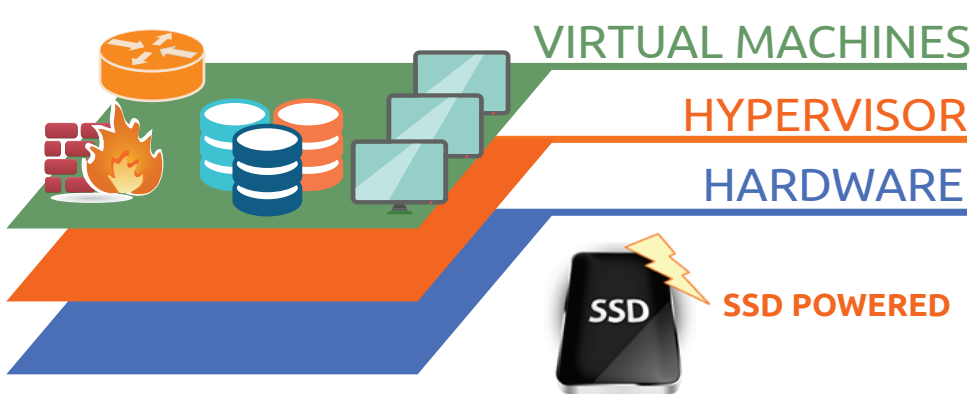


Stacbloc

HCI Brochure

STACBLOC IS AN UNIQUE HYPERCONVERGENCE PRODUCT THAT INTEGRATES **SERVERS, STORAGE, NETWORK AND SECURITY** IN A SINGLE APPLIANCE.



50%
SAVES IT TCO
BY UPTO 50%



OPTIMIZE
IT OPERATIONS

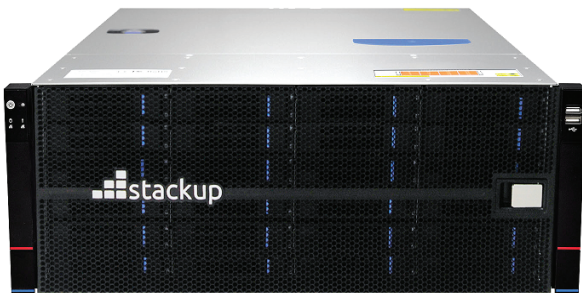


QUICKEN
DEPLOYMENT



SIMPLIFY
MANAGEMENT

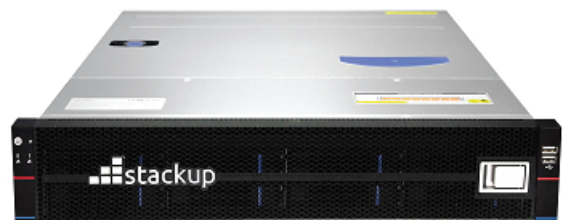
201 HCI



DUAL SOCKET, INTEL XEON SCALABLE 8C 16T UPG
32C 64T, MEMORY ECC DDR4 16GB UPG 1TB, PCIE X 6 SLOTS,
SSD 240GB UPG 180TB, ENTR SATA / SAS 1TB UPG 432TB,
NIC 10/25/40 GBPS, OOB SERVER MGMT BMC KVM,
2U 8HS RACK UPG 4U 24HS, RPS 550W UPG 1200W
INTEL SERVER GRADE PLATFORM

101 HCI

SINGLE SOCKET, INTEL XEON SCALABLE 8C 16T UPG 24C
48T, MEMORY ECC DDR4 16GB UPG 512GB, SSD 240GB UPG
180TB, ENTR SATA / SAS 1TB UPG 432 TB, NIC 1/10/25/40
GBPS, OOB SERVER MGMT BMC KVM, 2U 8 HS RACK UPG
4U 24HS, RPS 550W UPG 1200W
SERVER GRADE PLATFORM



CUSTOMIZE

KEY FEATURES

SERVERS

- MULTIPLE SERVERS
- CLONING, TEMPLATE
- HIGH AVAILABILITY
- HOTPLUG RESOURCES
- BACKUP & RESTORE
- MIGRATION

STORAGE

- DATA PROTECTION
- SSD , SPIN DRIVE
- LIVE REPLICATION
- SNAPSHOT
- INBUILT BACKUP
- MULTI FACETED

NETWORK

- SWITCHING VLAN
- MULTIPLE NETWORKS
- LINK BONDING
- JUMBO FRAMES
- QOS, BANDWIDTH MGMT
- HIGH AVAILABILITY

SECURITY

- CLUSTER WIDE
- STATEFUL FIREWALL
- IP, PROTOCOL FILTER
- PORT FILTER
- SECURITY GROUPS
- NODE, VM LEVEL

SUITES BEST FOR

- ./ SERVER CONSOLIDATION - CONVERT MULTIPLE PHYSICAL / VIRTUAL SERVERS INTO SINGLE APPLIANCE
- ./ NEW IT INFRASTRUCTURE - UNIFY ALL IT COMPONENTS IN A SINGLE APPLIANCE
- ./ 24 X 7 ALWAYS ON - RUN ZERO DOWNTIME HIGH AVAILABILITY SYSTEMS
- ./ DYNAMIC WORKLOADS - SPIN UP TEST & DEV ENVIRONMENTS, BACKUP TO PHYSICAL SYSTEMS
- ./ MANAGEMENT FREE - HCI SOLUTION IS 100% REMOTE MANAGEABLE, DEPLOY AT IT STAFF LESS LOCATIONS

ENTERPRISE GRADE SOFTWARE DEFINED INFRASTRUCTURE

COMPUTE

HYPERVERSOR - INTEGRATED STACBLOC HYPERVISOR SOFTWARE DEFINED COMPUTE

SCALE OUT ARCHITECTURE - ADD HCI NODES W/O DOWNTIME

BUILT IN MANAGEMENT - SINGLE WEB CONSOLE

MONITORING - RESOURCE DASHBOARDS GRAPHS FOR HOST, VM

NO SINGLE POINT OF FAILURE - REDUNDANCY AT ALL LEVELS

DISASTER RECOVERY - DC TO DR AUTOMATED FAILOVER

BUILT IN BACKUP - VM LEVEL BACKUP, SCHEDULED

VM OPERATIONS - BACKUP, SNAPSHOT, CLONE, TEMPLATE, AUTOMATED HA, FAILOVER, LIVE MIGRATION, IOMMU, SR IOV, HOT PLUG RESOURCES PERIPHERALS

DEPLOYMENT MODES - STAND ALONE, TWO NODES WITH HA, THREE NODES OR HIGHER IN CLUSTER

DEVICE PASS THROUGH - VIRTUALIZATION IOMMU, PERIPHERAL DEVICES TO VM

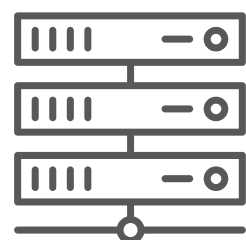
DOMAIN INTEGRATION - AD, LDAP



Effortless operations to manage entire stack in a single web GUI



Roll out IT infrastructure in hours with templates, clones & snapshots



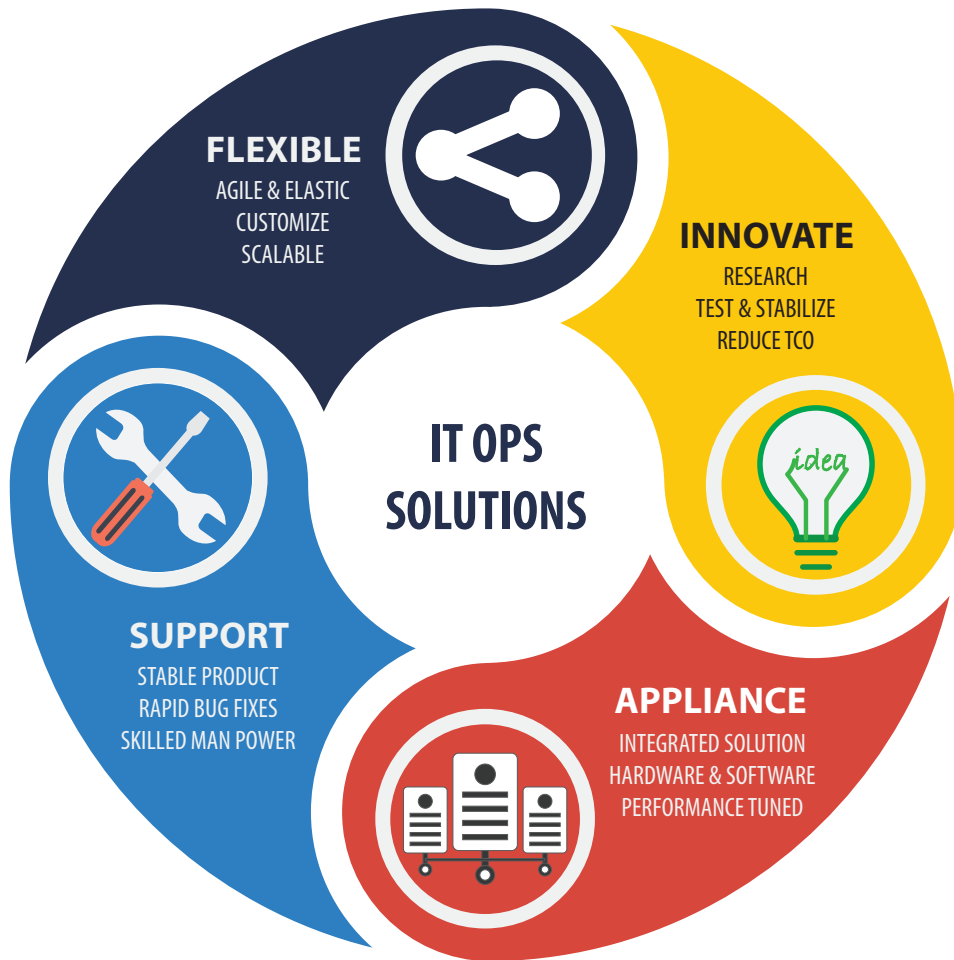
Scale up & out reliably with cluster wide automated High Availability

STORAGE

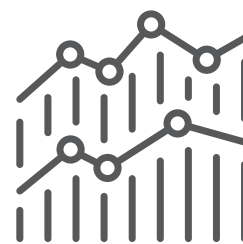
SOFTWARE DEFINED STORAGE - SCALABLE SOFTWARE CONTROLLERS
MULTI FACETED - FILE, BLOCK, OBJECT
FILE SERVICES - NFS, SMB, ZFS, FTP
BLOCK SERVICES - VOLUME, LUN, ISCSI
OBJECT SERVICES - REST API GATEWAY, HTTP
VERSATILE - SUPPORTS STRUCTURED AND UNSTRUCTURED DATA
HIGHLY SCALABLE - MULTI TERA BYTES TO PETA BYTES SCALE
HORIZONTAL SCALE OUT - ADD SDS NODES TO GROW STORAGE CAPACITY
DATA RELIABILITY - REPLICATION WITH MULTIPLE COPIES ACROSS CLUSTER
REPLICATION FACTOR - CUSTOM REPLICATION FACTORS 2 TO HIGHER
ERASURE CODING - SPACE SAVING DATA BLOCKS, PARITY BLOCKS
GEO WIDE REPLICATION - CROSS LOCATION REPLICATION OVER WAN FOR BCP, UNI DIRECTIONAL / BI DIRECTIONAL SUPPORT
PARALLEL OPERATIONS - HIGHER THROUGHPUT FROM ALL NODES
DATA PLACEMENT - EVEN DATA PLACEMENT WITH AUTO REBALANCE, STRIPING
MIRRORING - DATA MIRRORING ON TWO NODE DEPLOYMENT
COMPRESSION - SPACE SAVING WITH DATA COMPRESSION
SECURITY - DATA AT REST ENCRYPTION
VIRTUALIZATION BACKEND - SUPPORTS STORAGE BLOCK WITH CREATION, EXTENSION, MIGRATION, DELETION, SNAPSHOTS, CLONES, LINKED CLONES, COPY ON WRITE OF BLOCK VOLUMES
SSD CACHE TIER - IMPROVES THROUGHPUT TO SPINNING DISKS
DATA LOSS - NO SINGLE POINT OF FAILURE, ZERO DATA LOSS IN EVENT OF A DISK OR NODE OR NETWORK FAILURE
QOS CONTROL - THROTTLE READ WRITE OPERATIONS, THROUGHPUT
OVER PROVISION - THIN PROVISIONING

NETWORK

SOFTWARE DEFINED NETWORKING - VIRTUAL SWITCH, BRIDGE, NIC PORTS
LOGICAL SEPARATION - SEGREGATE VM TRAFFIC, HCI CLUSTER, SDS TRAFFIC
PHYSICAL SEPARATION - DISCRETE NETWORK PORTS
LINK AGGREGATION - BOND MULTIPLE INTERFACES, HIGHER THROUGHPUT
HIGH AVAILABILITY - AUTOMATED FAILOVER IN BONDED INTERFACE
VLAN AWARE - CLASSIFY VM TRAFFIC WITH VLAN
PORTS - MULTI GIGABITS, 10 / 25/ 40 GBPS.
PHYSICAL MEDIUM - COPPER RJ 45, OPTICAL SFP+, QSFP+
VIRTUAL INTERFACE - PARAVIRTUALIZED VIRT IO, EMULATED
QOS CONTROL - RATE LIMITS FOR BANDWIDTH
MULTIQUEUE - PARALLEL PACKET PROCESSING, HIGHER THROUGHPUT



Reduce TCO by avoiding hardware sprawl, resource surge, space & power



Hi performance dense computing accommodate multiple workloads

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