stackup

SERVER

NETWORK

Hyper convergence

IT in a box

VM

STORAGE

SECURITY

Stacbloc

HCI Brochure

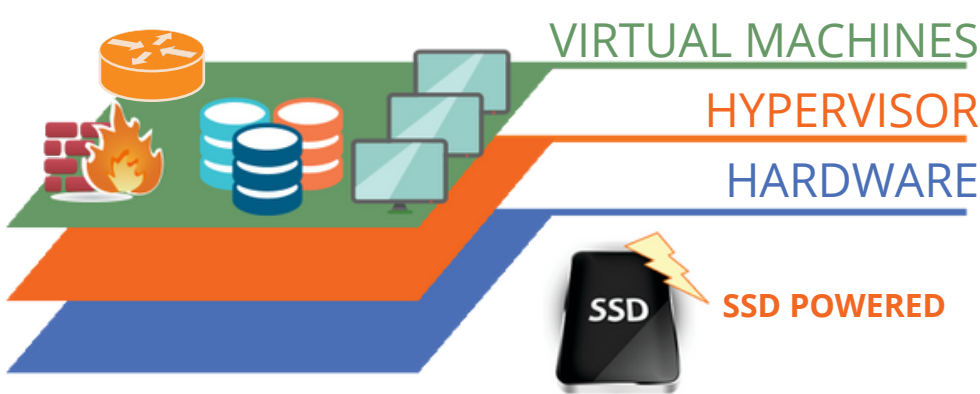![stackup logo]

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

VIRTUAL MACHINES

HYPERVISOR

HARDWARE

50%
SAVES IT TCO
BY UPTO 50%

SSD POWERED

OPTIMIZE
IT OPERATIONS

QUICKEN
DEPLOYMENT

SIMPLIFY
MANAGEMENT

201 HCI

DUAL SOCKET, INTEL XEON SCALABLE 8C 16T UPG 32C 64T, MEMORY ECC DDR5 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, 2U 8HS RACK UPG 4U 24HS, RPS 550W UPG 1200W

SERVER GRADE PLATFORM

101 HCI

SINGLE SOCKET, INTEL XEON SCALABLE 8C 16T UPG 24C 48T, MEMORY ECC DDR5 16GB UPG 512GB, SSD 240GB UPG 180TB, ENTR SATA / SAS 1TB UPG 432 TB, NIC 10/25/40 GBPS, OOB SERVER MGMT, BMC, 2U 8 HS RACK UPG 4U 24HS, RPS 550W UPG 1200W

SERVER GRADE PLATFORM

CUSTOMIZE

![stackup logo]

KEY FEATURES

SERVERS

MULTIPLE SERVERS
CLONING, TEMPLATE
HIGH AVAILABILITY
UNLIMITED VMs
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 OFFICES

ENTERPRISE GRADE SOFTWARE DEFINED INFRASTRUCTURE

COMPUTE

HYPERVISOR - INTEGRATED STACBLOC HYPERVISOR SOFTWARE DEFINED COMPUTE

SCALE OUT ARCHITECTURE - ADD HCI NODES W/O DOWNTIME

BUILT IN MANAGEMENT - UNIFIED WEB CONSOLE,

MONITORING - RESOURCE UTILIZATION, STATISTICS, DASHBOARD, 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, MULTIPLE MODES, RETENTION POLICY

VM OPERATIONS - LCM, BACKUP, SNAPSHOT, CLONE, TEMPLATE, AUTOMATED HA, FAILOVER, LIVE MIGRATION, P2V, V2V, IOMMU, SR IOV, HOT PLUG RESOURCES PERIPHERALS

DEPLOYMENT MODES - STAND ALONE, TWO NODES WITH HA, THREE NODES OR HIGHER (UPTO 32) 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 CONROLLERS

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, MULTIPLE VM DISK TYPES

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

TIERED STORAGE - FAST TIER WITH SSD, SLOW TIER WITH SPINNING DRIVES

EXTERNAL STORAGE INTEGRATION - ISCSI, NFS, CIFS

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

stackup

FLEXIBLE
AGILE & ELASTIC
CUSTOMIZE
SCALABLE

INNOVATE
RESEARCH
TEST & STABILIZE
REDUCE TCO

IT OPS SOLUTIONS

SUPPORT
STABLE PRODUCT
RAPID BUG FIXES
SKILLED MAN POWER

APPLIANCE
INTEGRATED SOLUTION
HARDWARE & SOFTWARE
PERFORMANCE TUNED

TCO

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

Hi performance dense computing accommodate multiple workloads

STACKUP TECHNOLOGY SOLUTIONS PVT LTD

WWW.STACKUPTECH.COM
INFO@STACKUPTECH.COM
+91 44 46200100

HEAD OFFICE - CHENNAI - NIRMAL BUILDING, SECOND FLOOR, 42, GIRIAPPA ROAD, T NAGAR, CHENNAI 600017
BRANCH OFFICES
BANGALORE - NOVEL BUSINESS PARK, #57, 13TH CROSS, GAJENDRA NAGAR, BALDWIN'S ROAD, BANGALORE 560030
HYDERABAD- #3-532 TO 534, UPTOWN CYBERBAD, 4TH FLOOR, C BLOCK, 100 FT ROAD, AYYAPPA SOCIETY, MADHAPUR, HYDERABAD 500 081