Veritas NetBackup Flex Scale

Ransomware resilient, simple to scale, easy to operate.

As IT departments adapt to the rapidly changing business environment, their data centers also evolve. Several trends are emerging as organizations modernize their data centers and develop new data protection strategies. The cloud has changed the way organizations deploy and maintain IT infrastructure.

IT departments are building hybrid and private clouds to take advantage of public cloud—like agility, scalability and ease of use while maintaining control over their data and meeting regulatory requirements. Correspondingly, there is a shift to software on off-the-shelf servers for primary storage and data protection to take advantage of economies of scale and minimize costs.

Cloud agility also necessitates self-service, including application data protection and disaster recovery. Application owners who are not experts in data protection infrastructure require simple, API-driven, automated data protection.

Ransomware is top of mind in IT departments today. Backup solutions are key components in an enterprise's defense against ransomware. NetBackup™ Flex Scale is the latest extension of NetBackup to support these new trends in the data center.

Today, NetBackup supports over 800 workloads ranging from traditional databases to workloads in the cloud. This unrivaled foundation of experience in data protection has been achieved by extending NetBackup with support for new workloads as they are introduced into the enterprise. With the introduction of the NetBackup Flex Scale hyperconverged scale-out deployment option, Veritas delivers complete, ransomware resilient enterprise-wide data protection and disaster recovery aligned to the needs of the workload: scale-up, scale-out and cloud- native NetBackup.

Pay-As-You-Grow, Scale-Out Architecture Optimized for Data Protection

To meet the needs of cloud-like scalability and ease of use, Veritas now offers organizations the flexibility to deploy NetBackup as a scale-out, automated data protection service. Veritas always starts with data protection first. Rather than adapting NetBackup to use a standard scale-out file system, Veritas designed a completely new containerized, hyperconverged architecture that enables the scaling of NetBackup services, performance and capacity.

- Enterprise-grade NetBackup data protection and disaster recovery from the most trusted and widely deployed brand.
- No-compromise scaling, resiliency and massive performance.
- Administration through automation, accelerating data protection as a service delivery.

NetBackup Flex Scale automatically scales performance and capacity as data protection demands increase. There is no need to over-provision for future growth. Adding nodes automatically increases distributed, cluster-wide resources. NetBackup Flex Scale software is delivered on Veritas validated off-the-shelf servers, providing enterprise-class data protection and hardware commonality in the data, reducing costs and simplifying provisioning and management.

Veritas Validated Platform Nodes
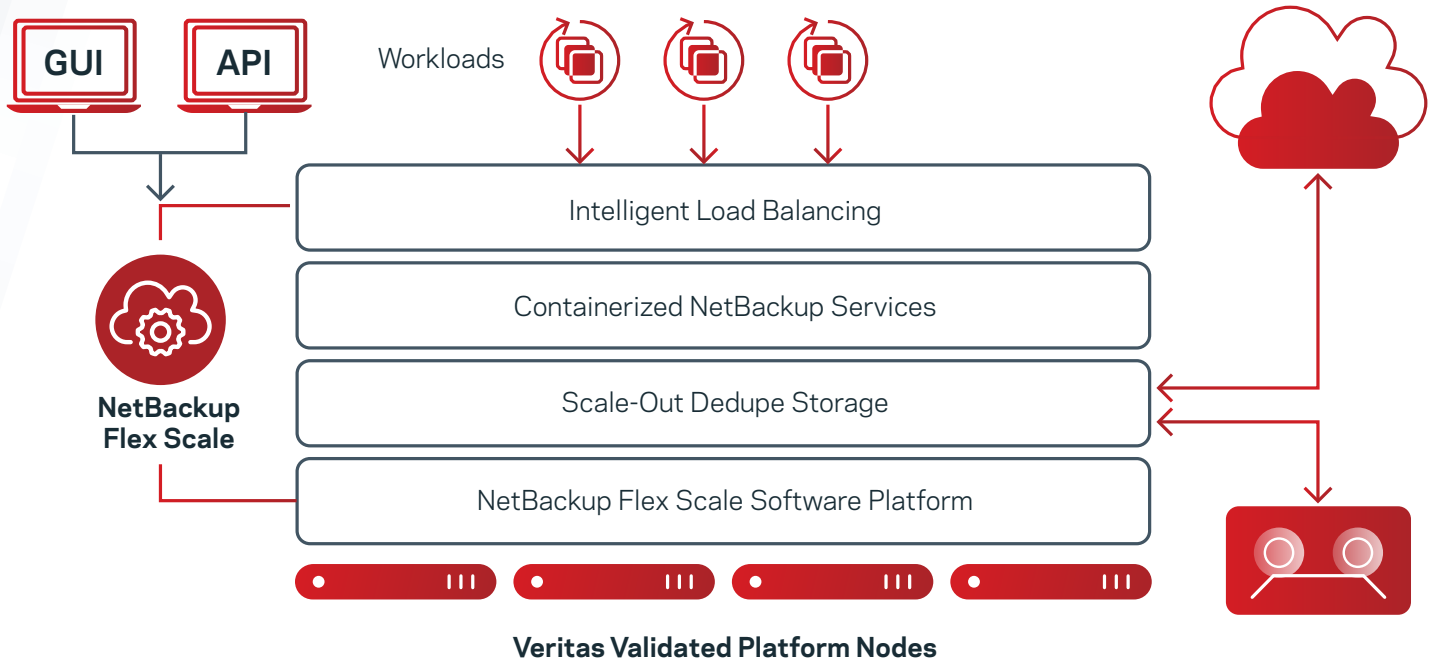
A Major Advancement in Automated IT Operations

NetBackup Flex Scale reduces the challenges in rapidly adapting to the changing business environment with automated features that optimize performance and recovery to meet stringent service-level agreements (SLAs). NetBackup Flex Scale reduces the need for specialized IT resources with automated operations, including:

- Provisioning
- Performance
- Scaling
- Load-balancing
- Recovery

NetBackup Flex Scale's automated IT operations optimize time to value by accelerating data protection as a service delivery and reducing the risks associated with manual tasks. And as workloads grow, it minimizes complexity and reduces TCO.

Immutable Architecture for No-Compromise Resilience and Security

Security and resilience were architected into NetBackup Flex Scale at its very inception. The Immutable Architecture is multilayered to encompass the entire data protection infrastructure.
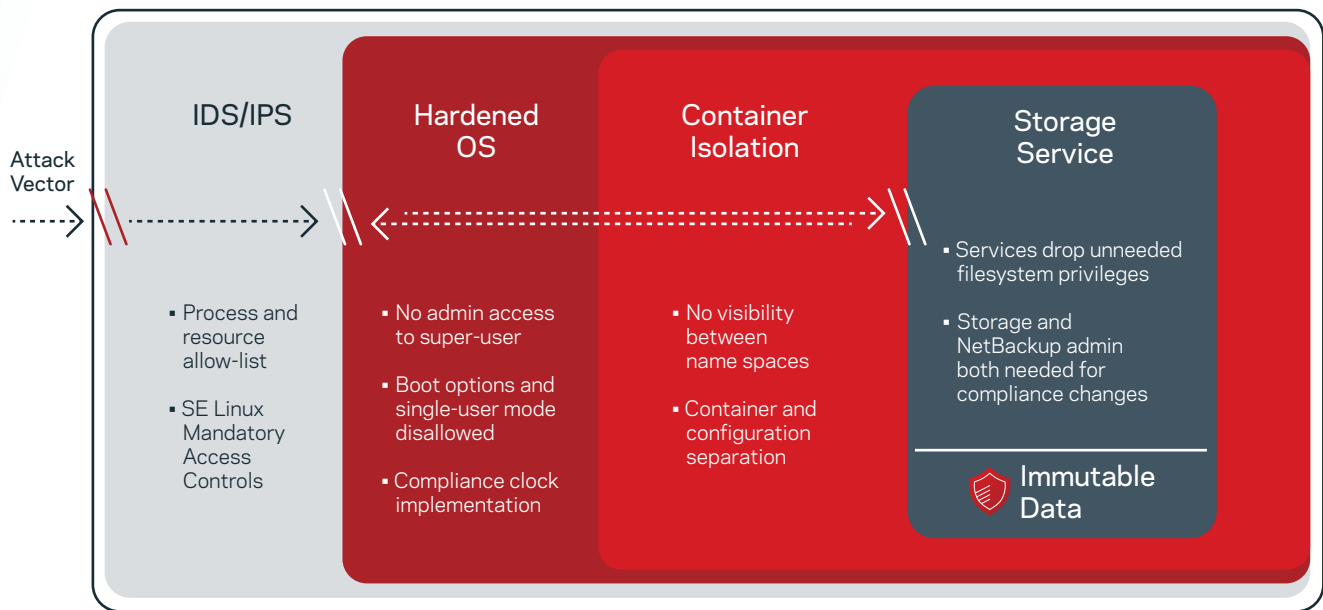
At its core is immutable storage. This prevents data from being modified by a bad actor and is an important component in ransomware resilience.

NetBackup Flex Scale is based on containers and container isolation is the next layer of protection. Containers provide isolation between NetBackup services and include internal software firewalls to block unauthorized traffic and prevent visibility between namespaces.

The next layer is a hardened operating system, that restricts access even to superusers and restricts single-user mode boot options. Veritas has years of experience creating policies and deploying hardened operating systems in over 30,000 appliances. All this experience is built into NetBackup Flex Scales Immutable Architecture.

Finally, there is a layer of Intrusion Detection and Prevention to further protect against an attack by a bad actor.

NetBackup Flex Scale Multi-Tiered Immutable Architecture

IDS/IPS

Attack Vector

- Process and resource allow-list
- SE Linux Mandatory Access Controls

Hardened OS

- No admin access to super-user
- Boot options and single-user mode disallowed
- Compliance clock implementation

Container Isolation

- No visibility between name spaces
- Container and configuration separation

Storage Service

- Services drop unneeded filesystem privileges
- Storage and NetBackup admin both needed for compliance changes

Immutable Data

Automated Scaling, Upgrades and Technology Refresh

NetBackup Flex Scale's automated, containerized services abstract cluster management. Adding nodes to a NetBackup Flex Scale cluster automatically increases cluster-wide resources including containerized NetBackup services, performance and capacity. The containerized abstraction of NetBackup services eliminates the time-consuming manual tasks of managing cluster hardware, data protection policies or client software.

NetBackup Flex Scale uniquely employs resource prioritization for backup/restore operations and over-node scaling/rebalancing jobs, ensuring critical SLAs are met. NetBackup Flex Scale's containerized architecture also makes software downloads and upgrades directly from the NetBackup web UI or API fast and easy.

Reduce Time to First Backup By Up to 95% with Integrated API Automation

NetBackup Flex Scale includes a comprehensive set of application programming interfaces (APIs) and software development kits (SDKs) that facilitates rapid, automated as-a-service deployment and management of data protection services.

NetBackup's secure, programmatic access supports third-party and internally developed apps, streamlining data protection on-premises and in the cloud.

The APIs include integration with cloud-based workflows such as ServiceNow and vRealize, improving operational efficiencies with enterprise-driven, automated policies.

Optimize Your Overall Data Center TCO with Netbackup Deployment Options

An organization must optimize its data protection infrastructure based on the number of workloads it runs, the types of users accessing data protection and the environment, including remote offices, a centralized data center or the cloud. A one-size deployment model does not fit all, and multiple point products drive up complexity and increase risks. Only Veritas provides the ability for organizations to optimize their data protection and total cost of ownership (TCO) with the right mix of NetBackup scale-up, scale-out and cloud-native solutions for all workloads, users and environments.

NetBackup Flex Scale gives you the flexibility to easily deploy a complete scale-out solution with a new deployment or scale-out an existing NetBackup deployment. This provides an organization with the capability to design a backup system optimized for their user needs and opens the option to incorporate a scale-out infrastructure without a forklift upgrade or disrupting operations.

NetBackup Software on Veritas Validated Platforms

NetBackup Flex Scale is delivered as an appliance on the organization's choice of standard Veritas validated off-the-shelf servers, enabling it to maximize existing hardware supplier relationships and lower overall TCO. Based on years of experience suppling turnkey, purpose-built data protection appliances, Veritas works with validated partners to ensure NetBackup Flex Scale nodes easily integrate into the data protection environment and seamlessly deliver support and service for software and hardware.

About Veritas

Veritas Technologies is a global leader in data protection and availability. Over 80,000 customers—including 87 percent of the Fortune Global 500—rely on us to abstract IT complexity and simplify data management. The Veritas Enterprise Data Services Platform automates the protection and orchestrates the recovery of data everywhere it lives, ensures 24/7 availability of business-critical applications, and provides enterprises with the insights they need to comply with evolving data regulations. With a reputation for reliability at scale and a deployment model to fit any need, Veritas Enterprise Data Services Platform supports more than 800 different data sources, over 100 different operating systems, more than 1,400 storage targets, and more than 60 different cloud platforms. Learn more at www.veritas.com. Follow us on Twitter at @veritastechllc.

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