

AHV is the fastest growing hypervisor for Nutanix deployments, quickly becoming the default choice for virtualizing business critical applications

Nutanix AHV



THE TEXAS A&M UNIVERSITY SYSTEM

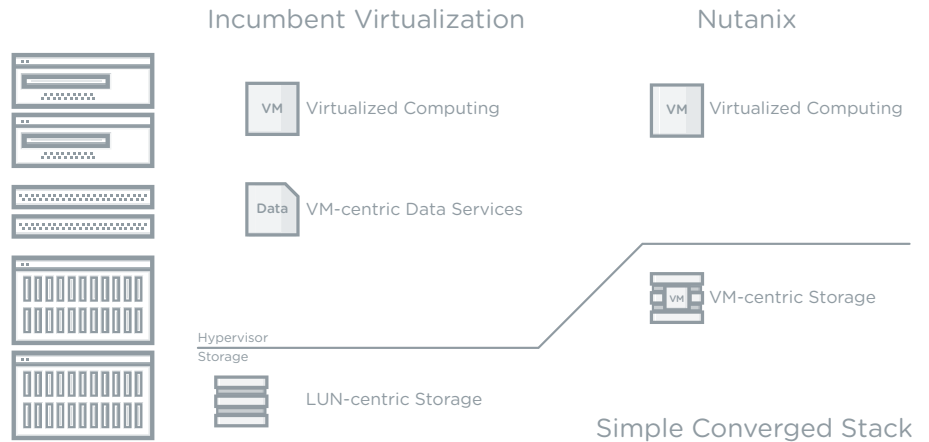


Nutanix Acropolis is a turnkey infrastructure platform that delivers enterprise-class storage, compute, and native virtualization services to run nearly any application. Together with Prism, a comprehensive, yet consumer-grade, management platform, Nutanix provides an enterprise cloud platform for organizations of all sizes. As a fully integrated IT solution, it eliminates the cost and complexity of legacy datacenter technologies that are individually deployed and separately managed.

In addition to supporting VMware vSphere and Microsoft Hyper-V, Acropolis includes a built-in virtualization solution, AHV. AHV is built on proven open-source KVM technology and is included at no additional cost with every Nutanix deployment. AHV supports core virtualization capabilities including high availability, VM migration, and optimized resource utilization. Everything delivered as a simplified management solution. To further simplify hypervisor choice, the platform also includes the Acropolis App Mobility Fabric (AMF) that enables easy workload migration between hypervisors and different runtime environments. Together, AHV and AMF decouple applications from the underlying infrastructure, enabling enterprise IT to choose the runtime environments that are ideal for their applications and services

VIRTUALIZATION SOLUTION BUILT FOR THE CLOUD ERA

Public clouds have redefined expectations of IT infrastructure. Explicit choices are not made about hypervisors or storage when applications are deployed on public clouds.



In a cloud delivery model, Virtualization is a service that is just expected to be there. With AHV, Nutanix collapses virtualization as a checkbox feature to enable quicker time to value within enterprise datacenters. AHV is shipped from the factory enabling application deployment within minutes after racking, network, & power.



AHV includes all the core virtualization capabilities that enterprises need, such as:

- Automated high availability (HA) to failover virtual machines across the entire cluster.
- Resource Scheduling - Intelligent placement of virtual machines based on resource requirements
- Contention Avoidance - Automated resource contention avoidance using machine learning and historical analysis
- Software defined virtual networking
- Live migration of virtual machines
- Integrated IP address management and DHCP capabilities
- Converged backup and DR - including DR to other hypervisors
- Unlimited scale to support clusters of all sizes

CONSUMER-GRADE MANAGEMENT WITH ONE-CLICK SIMPLICITY

Prism is a distributed, highly available management solution that provides consumer-grade management and intelligent operational analytics. Prism is natively integrated into the Nutanix solution and is not installed or managed separately. From a virtualization perspective, Prism provides:

- One-click VM operations, including create, delete, update, power, pause/resume, snapshot, and clone VMs
- Image management: Convert and upload disk / ISO images to Nutanix clusters for simplified deployments
- Cross-Hypervisor Migration to migrate VMs between virtual environments running different hypervisors easily
- Detailed performance alerts and analysis with simplified root cause analysis
- Predictive Analytics for capacity planning and just-in-time scaling

ECOSYSTEM

AHV has a comprehensive and a burgeoning ecosystem with partners and system integrators building solutions. Additionally, AHV is certified to work on the most common enterprise applications, including all Microsoft and Citrix workloads, and is supported by application vendors as well as Nutanix.



AHV is widely used by customers today for a wide range of use cases, from mission-critical database workloads to Citrix-based desktop virtualization solutions:

- Microsoft workloads - Microsoft workloads are officially supported through Microsoft SVVP certification for AHV
- Desktop Virtualization - AHV is Citrix Ready and is certified for Citrix XenApp and XenDesktop
- Private Cloud - Through Nutanix's built in Self Service (SSP) Provisioning portal
- OpenStack - Through Nutanix OVM drivers, OpenStack deployments can instantly leverage AHV
- Dev/Test and DR - Reduce licensing cost with AHV for Dev/Test and DR environments
- Service Providers/KVM shops - Service providers who currently run KVM or are exploring a low-cost virtualization solution will find AHV beneficial

More information can be found at: nutanix.com/resources/case-studies/



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