BUILD YOUR ULTIMATE CLOUD

Your journey to fast and resilient on-premises cloud begins with Pure

SUMMARY

Across industries, cloud computing is changing the way organizations run their businesses – they're seeking ways to become more agile, more flexible, and better able to drive continuous innovation. As a result, organizations now need an IT environment that is simple, elastic, and on-demand. The public cloud may appear to be the simplest answer, but on-premises cloud delivers the most reliable, secure, and cost-effective options. In addition, moving everything to the public cloud is not simple, particularly with traditional enterprise applications that can require re-architecting. Ultimately, to address a variety of application needs, organizations are finding that a robust private cloud, designed for seamless hybrid cloud integration as needed, is a critical piece of their cloud strategies.

YOUR ON-PREMISES CLOUD REALIZED

Versus public cloud options, virtualized on-premises infrastructure offers significant advantages – in terms of consolidation, efficiency, data security, and management – while delivering resilience, high-performance, and easy scale. Pure's cloud data infrastructure delivers a modern architecture that's always-on, always fast, and always-secure. Whether you go with virtual machines or containers, Pure provides integration, automation, orchestration, and self-service for leading cloud automation platforms. Add industry-leading resiliency and 100% NVMe performance and you get fast data that's easily shareable across workloads and, ultimately, clouds. That's the experience of the 1000s of clouds already built on Pure – including SaaS providers, hosted clouds, and private clouds.

BUILD AND AUTOMATE YOUR VM CLOUD

Pure's deep integrations with VMware, Microsoft, and OpenStack enable simple automation and self-service. Build your cloud on any of these platforms and realize the speed, reliability, and security of on-premises cloud – with all the operational agility of public cloud.

VMWARE

Pure Storage® delivers comprehensive integrations to build your on-premises VMware cloud. Our FlashArray™ plug-in to vRealize Orchestrator offers out-of-the-box automation to handle the most common storage orchestration tasks, including on-demand, per-VM provisioning and policy-based control, while our vRealize Automation integration enables on-demand infrastructure-as-a-service. There's more: Pure's Virtual Volumes implementation is the simplest available, delivering per-VM control and the flexibility to go from virtual-to-physical, physical-to-virtual, and on-premises-to-cloud. The VMware SDDC Validated Design provides pre-validated blueprints for your software defined cloud architecture, and the vCenter web-client plug-in enables you to perform all storage management tasks effortlessly through a single console. For faster troubleshooting, Pure1® VM analytics delivers comprehensive performance insights of your entire stack up to the VM level. Finally, Pure's built-in ActiveCluster technology, certified with VMware Metro Storage Cluster, provides RPO and RTO zero, the highest level of business continuity, while support for Site Recovery Manager extends disaster recovery protection.

MICROSOFT

Drive ultimate flexibility in managing your Microsoft private cloud deployments with Pure's suite of System Center integrations. Use our Virtual Machine Manager plug-in to configure and manage any scale of VM deployment as a single fabric. Automate storage provisioning and monitoring workflows with our Orchestrator plug-in. The Operations Manager plug-in monitors the health and performance of your private cloud resources, and identifies problems for rapid resolution. Go futher with the Pure Storage Extension for Windows Admin Center, which provides a diverse set of management capabilities for your fleet of FlashArrays. Finally, extend this unified experience of your Microsoft private cloud with the Pure Storage PowerShell Toolkit to enable superior automation. It's all included with your array.

OPENSTACK

Pure Storage offers a variety of integration methods for OpenStack: our Cinder driver for FlashArray helps speed integration and makes your cloud deployment simpler, faster, and more resilient. With the added support of both asynchronous and synchronous replication, your data can be secured across multiple locations. The FlashBlade™ Manila driver enables file-serving from our best-of-breed NFS platform, while our Pure Storage Python Automation Toolkits extend functionality beyond Cinder and Manila with advanced storage features. For full customization and access to 100% of FlashArray and FlashBlade's storage features, our comprehensive REST APIs enable you to automate FlashArray and FlashBlade management in OpenStack.

ON-DEMAND CONTAINER STORAGE-AS-A-SERVICE

With the explosion of container adoption, Pure introduced Pure Service Orchestrator to deliver container storage-as-a-service, providing cloud-like agility backed by all-flash speed and enterprise reliability. Pure Service Orchestrator enables seamless integration of both FlashArray and FlashBlade systems with full support for Docker and Kubernetes – so organizations can build and deploy mission-critical, containerized applications effortlessly.

ON-PREMISES ALL-FLASH PAAS

Pure also enables you to go beyond container-as-a-service, to deliver modern platform-as-a-service (PaaS) on-premises. With our Red Hat OpenShift reference architecture, you can provision all-flash to give your developers the kind of agility they would normally expect only from the public cloud.

OPEN & SIMPLE AUTOMATION FOR YOUR CLOUD

Pure offers a host of pre-built integrations with automation tools of your choice – so you can select the best technology stack for your virtualized or containerized DevOps environment. Get the flexibility to build and automate effortless, reliable Infrastructure-as-Code, powered by Pure's Python, PowerShell, Ansible, SaltStack, and Puppet modules.

CLOUD-COMPATIBLE DATA SERVICES OF YOUR CHOICE

The goal of building an on-premises cloud is ultimately to enable the same level of block, file, and object services you can get from the public cloud – but on-demand. With our Purity operating environment and Pure1®, we deliver all the protocols, including object, that you'll need, and you can consume everything via REST APIs.

BUILD WEBSCALE APPS ON-PREMISES

Cloud-native applications predominantly use object storage, and next-gen developers code with object storage as well. FlashBlade, Pure's industry-leading object store platform, delivers unprecedented performance and scalability to support building webscale apps on-premises.

CONSUME & PAY ON-DEMAND

Data growth today is unpredictable, and over- and under-provisioning of resources is a constant concern. Pure Evergreen Storage Service offers a flexible alternative: an OPEX-based, pay-per-use model for storage-as-a-service. Evergreen Storage Service supports block, file, and object and can be deployed on-premises and in colocation facilities – connected to the public cloud or in a hybrid combination. Get the performance and security of private cloud with the elasticity and flexibility of public cloud.

YOUR TURNKEY PRIVATE CLOUD SOLUTION

IT infrastructure sprawl and siloing restricts the agility needed to adapt to changing business dynamics, as well as the ability to scale on demand. As a result, new technology is slow to deploy, requiring regular and time-consuming changes to data center architectures. It's time to change that dynamic.

Cisco and Pure Storage deliver FlashStack™, a modern converged infrastructure (CI) solution, in which fully modular architecture abstracts hardware into software for non-disruptive upgrades and maintenance. Seamlessly deploy new technology without having to re-architect your data center solutions. FlashStack is virtual machine-aware and hybrid cloud-ready, while retaining the predictability and efficiency advantages of dedicated compute and storage tiers that can be independently scaled. With FlashStack, you can modernize your operational model, stay ahead of business demands, and protect and secure your applications and data.

BUILD FLEXIBLY, AND BE READY FOR HYBRID

Pure enables you to build and scale your private cloud flexibly – with disaggregated compute and storage – to maximize agility and cost-savings. Build your own, or get a turnkey FlashStack – whatever Pure solution you choose, you'll enjoy storage that's always effortless, efficient, and Evergreen™. When your business is ready, you can extend your on-premises cloud to public cloud, leveraging Pure Storage cloud data services to deliver bi-directional app and data mobility, and seamless management and orchestration, across your hybrid infrastructure. Then build your applications once, and run them anywhere.

EFFORTLESS

Pure Storage solutions are always-on, always fast, and always secure. They're self-managing, plug-n-play simple, and cloud-connected, providing the agility of AI-driven management, predictive analytics, and unrivaled support and protection.

EFFICIENT

Pure's software-defined storage is always efficient, saving you up to 10x on space and up to 10x on power while consolidating all your tiers and workloads. Rich data services are fully automatable and extensible for self-service consumption.

EVERGREEN

Pure solutions get better with age. Buy once, and your SaaS-like subscription to array software and hardware innovation delivers next-gen storage breakthroughs – like the 100% NVMe//X – without disruption, downtime, or risky data migrations.

PURESTORAGE®