VMware Cloud on AWS

Let's power
higher performance

Summary

Hybrid clouds combine the advantages of private and public infrastructures. When it comes to flexibility and efficiency in the era of digitization, it's hard to beat a hybrid cloud. These highly scalable solutions do, however, require customers to master both worlds. VMware and Amazon Web services (AWS) have teamed up to offer a seamlessly integrated hybrid cloud – VMware Cloud on AWS. T-Systems maintains partnerships with both vendors, serving as a single point of contact and contract partner for the new offering.

Navigate & Implement for VMware Cloud on AWS from T-Systems provides customized consultation and support covering everything from onboarding to integration. It enables enterprises to leverage all the benefits the new solution can provide. Customers can free up data center capacity, establish a disaster recovery service, minimize latency between workloads, make licensing more affordable, and determine the most effective way to integrate AWS services into their businesses.

Content

Motion in the clouds

For years, nothing has been able to match cloud services when it comes to satisfying the demands of digitization. Because services in the cloud offer the necessary flexibility, agility, scalability, and cost efficiency. Private clouds are known for security, while the public cloud offers maximum cost efficiency and simplicity. In 2018, according to Bitkom Research[1], 55% of enterprises in Germany used private clouds and 35% were in the public cloud. And according to a study[2] by Pierre Audoin Consultants (PAC), 85% of companies have adopted a hybrid model that incorporates both on-premise and cloud computing.

Hybrid clouds offer the best of both of these cloud worlds. Capitalizing on these benefits, however, requires maximum interoperability across multiple infrastructures. Market leaders VMware and Amazon Web Services have joined together to create a consistent solution. VMware is the world's leading provider of private cloud infrastructures for local data center environments and AWS runs the leading public cloud across 21 regions around the globe. The product of this strategic partnership is called VMware Cloud on AWS. It allows businesses to seamlessly integrate their local environments with AWS. Customers can accomplish this by using existing tools and skillsets in a common environment based on the familiar VMware software.

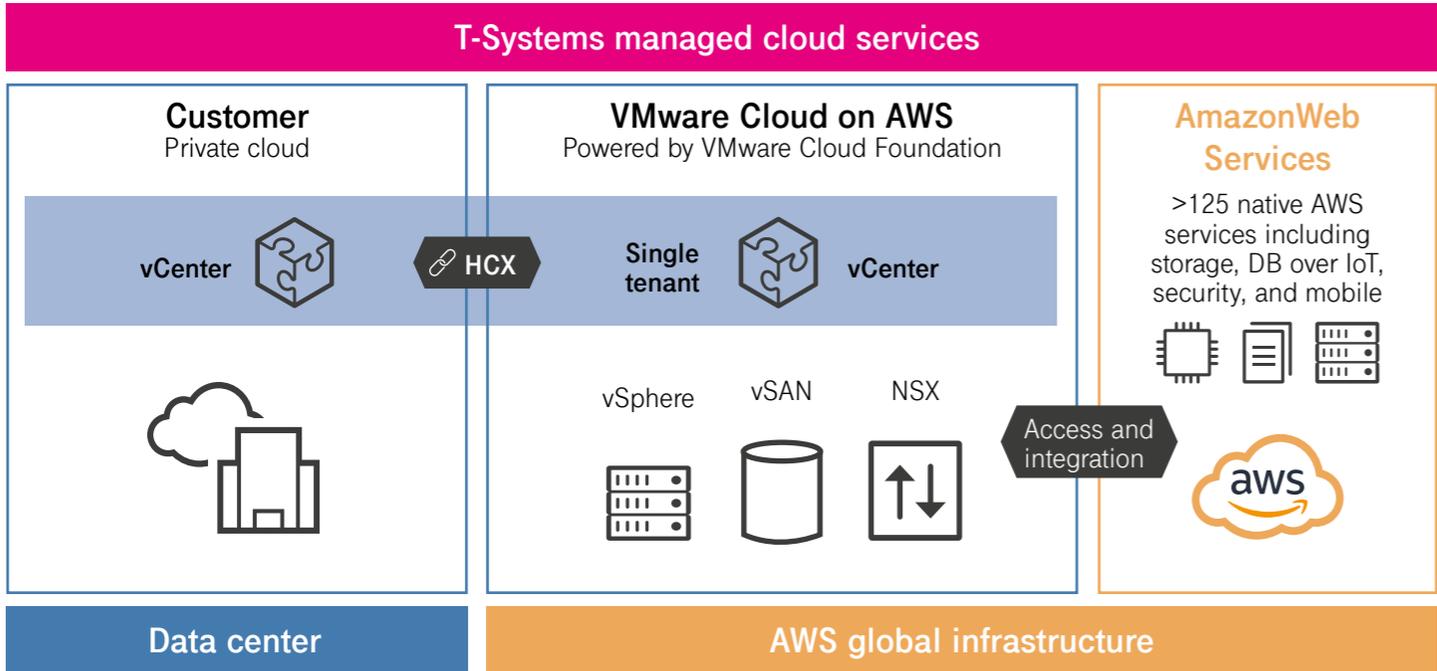[1] Cloud-Monitor 2019, study by Bitkom Research commissioned by KPMG, June 2019

[2] Hybrid Cloud in Germany, study by Pierre Audoin Consultants commissioned by Telekom Deutschland GmbH, 2018

VMware Cloud on AWS for consistent hybrid environments

VMware Cloud on AWS lets you implement seamlessly integrated hybrid clouds. It does this by extending virtualized on-premise vSphere environments to a dedicated VMware software-defined data center (SDDC) running on an AWS's elastic bare-metal infrastructure. VMware Cloud on AWS is based on the VMware Cloud Foundation SDDC platform. It combines virtualization technologies from VMware vSphere, VMware vSAN, and VMware NSX with VMware vCenter Management. Now, enterprises can reduce capital expenditures for on-premise data centers while continuing to leverage existing infrastructure expertise. Staff don't have to learn any new skills. And comprehensive integration ensures a uniform service experience.
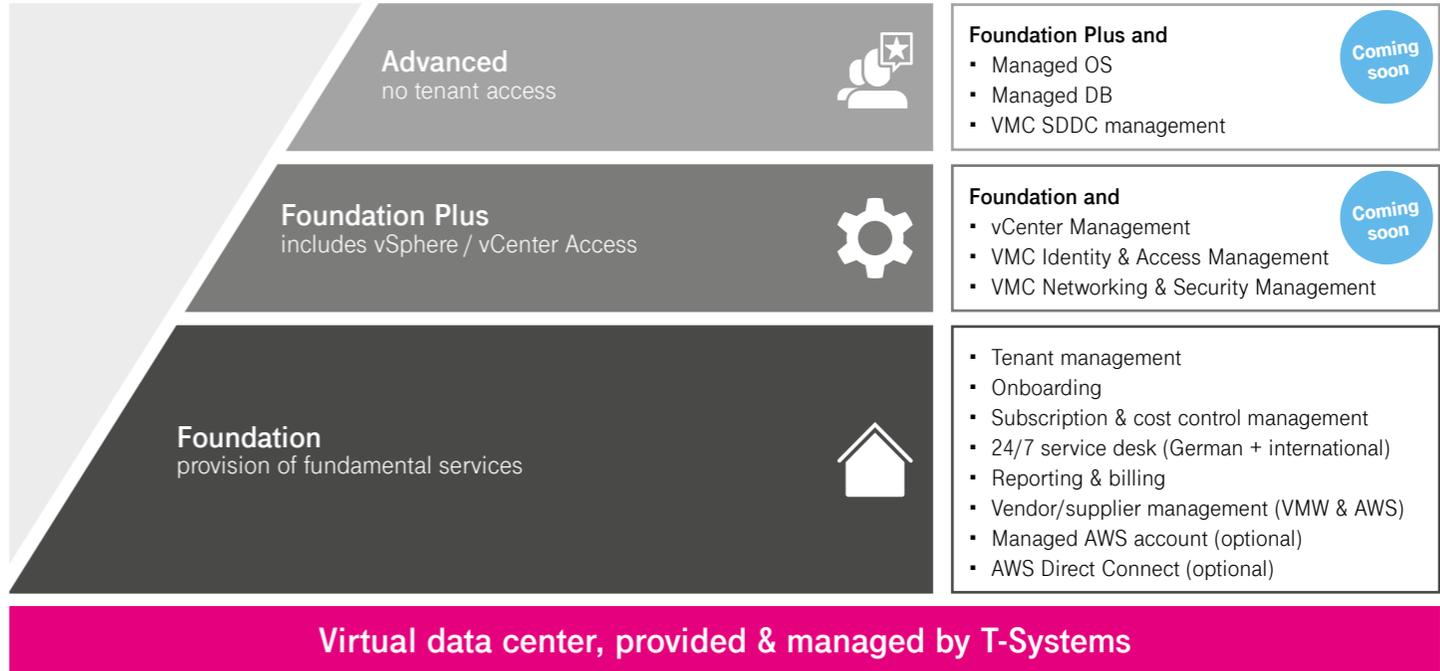
Execution, management, and backup of production applications all take place within an integrated hybrid IT environment. Enterprises can always choose the location where applications run according to their requirements.

No other hybrid service lets you integrate conventional mode-1 workloads with cloud-native, mode-2 workloads like VMware Cloud on AWS does. This is accomplished by leveraging over 125 native AWS services including compute resources, databases, analytics, Internet of Things (IoT) capabilities, security, mobile communications, application services, and much more.

T-Systems managed cloud services

Customer Private cloud	VMware Cloud on AWS Powered by VMware Cloud Foundation	AmazonWeb Services
vCenter	HCX — Single tenant — vCenter	>125 native AWS services including storage, DB over IoT, security, and mobile
	vSphere vSAN NSX	Access and integration — aws

Data center	AWS global infrastructure

Managed services make it easier to use VMware Cloud on AMS

How can enterprises get started with VMware Cloud on AWS? Organizations frequently lack the resources to replicate an existing infrastructure environment in the public cloud. Not to mention the specialized support services necessary to quickly implement the desired use cases. This is where a managed services provider with comprehensive and specialized VMware and AMS experience such as T-Systems can help. Companies can obtain VMware Cloud on AWS and managed services with customized pricing including pay-per-use models and attractive rates for dedicated hosts.

Advanced
no tenant access

Foundation Plus and
- Managed OS
- Managed DB
- VMC SDDC management

Coming soon

Foundation Plus
includes vSphere / vCenter Access

Foundation and
- vCenter Management
- VMC Identity & Access Management
- VMC Networking & Security Management

Coming soon

Foundation
provision of fundamental services

- Tenant management
- Onboarding
- Subscription & cost control management
- 24/7 service desk (German + international)
- Reporting & billing
- Vendor/supplier management (VMW & AWS)
- Managed AWS account (optional)
- AWS Direct Connect (optional)

Virtual data center, provided & managed by T-Systems

Typical use cases for VMware Cloud on AWS

Data center exit and cloud migration

VMware Cloud on AWS is suitable for any cases involving workloads that need to be migrated from an on-premise data center to the cloud. For instance when you're looking to consolidate data centers or conduct an infrastructure refresh. Maybe you're facing capacity bottlenecks or new requirements that impact your business applications. It only takes 120 minutes to set up an SDDC and just 30 more to scale host capacity. Migrating vSphere-based workloads to the cloud is a no-risk way to free up internal infrastructures. Your consultation will include an evaluation of which cloud architecture is a suitable match for which workloads and what subsequent modernization of individual applications could look like.

Disaster recovery as a service

Another use case is disaster recovery. VMWare Cloud on AWS lets customers set up a new disaster recovery solution. In this constellation, the company data center is backed up by VMware Cloud on AWS as the secondary cloud data center. The VMware Site Recovery Manager (SRM) comes into play here. Failovers for testing and production environments are possible at any time. Customers save the time and money a second data center requires while they benefit from the business continuity that rapid disaster recovery provides. The first step of your consultation is to define a disaster recovery strategy.

Optimized data locations

In many situations, it makes sense to bring interconnected workloads into close physical proximity of one another as well. This eliminates any latency or performance degradation caused by WANs. This applies for instance when AWS database services communicate with a conventional desktop virtualization such as VMware Horizon. VMware Cloud on AWS involves migrating the virtual desktop infrastructure to the cloud. Both workloads are located in the same data center and use the same Availability Zone. This is a good option for companies that are considering expanding into new regions. Your consultation will include defining the scenarios in which mode-1 and mode-2 workloads can be combined.

On-premise & cloud licensing

Existing enterprise license agreements used to prevent customers from migrating their on-premise infrastructures to shared platforms such as the cloud. Now, many customers can retain their host-based licensing when they move dedicated, VMware-ESXi-based environments to VMware Cloud on AWS. VMware licenses obtained for the company data center are applied to the cloud, and a higher discount may even be possible. In addition, VMware Service Credits obtained as part of existing agreements can be traded in for VMware Cloud on AWS credits. The VMware licenses (vSphere, vSAN, NSX) are included in the cloud service. A consultation is recommended to address any licensing questions and ensure you have taken advantage of all the licensing benefits that VMware Cloud on AWS brings.