



Vantage Cloud

Vantage On-Demand at Amazon Web Services

Cloud deployment of Vantage, the transcoding and workflow management software of choice for the world's most demanding media companies.

Overview

With Vantage Cloud, securely provision fully functional Vantage Virtual Domains in the cloud—in minutes. With a few clicks, you define the scale, location and performance of Vantage Virtual Domains to deliver compelling new products and services to your customers and organizations, and pay for the time that you use it.

Vantage Virtual Domains are provisioned, configured and monitored with Vantage Cloud Manager, software with a simple user interface that puts you in control of your cloud infrastructure so that it suits your business requirements, schedules, and budgets.

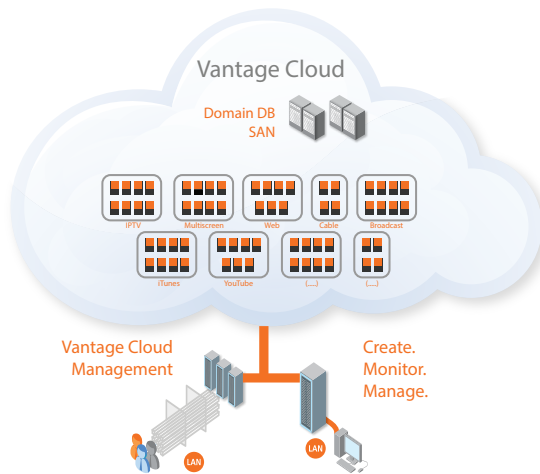
Features

- **Vantage:** Vantage transcoding and workflow in three configurations at scaled price points:
 - **Over The Top** - Multiscreen Adaptive Bit Rate transcoding and packaging
 - **Multiformat** - Adds transport stream, broadcast and content assembly to OTT for any required output.
 - **International** - Adds frame rate conversion and DVB subtitle burn-in to Multiformat for European and North American format production from the same source material.
- **Fast:** Deploy Vantage Virtual Domains, at any scale in less time than it takes to complete a requisition form.
- **Secure:** Vantage virtual domains are provisioned within AWS Virtual Private Clouds (VPCs) for maximum security.
- **Scalable:** Adjust capacity to meet demand without over-provisioning – no power, cooling, or space required.
- **Financially flexible:** Pay-as-you-go pricing aligns spending and revenue.
- **Globally accessible:** Worldwide presence for global operations.



Vantage Virtual Domains

Vantage Virtual Domains are managed networks of Vantage transcoding and workflow management software systems, provisioned on AWS elastic infrastructure.



- **Vantage:** Vantage software is pre-installed and fully licensed with the full range of Vantage transcoding, formats, analysis and workflow capability.
- **Throughput:** Optimized for Amazon Web Services infrastructure, Vantage Virtual Domains are deployed on high performance network and storage infrastructure to maximize overall system throughput at any scale.
- **Security:** Vantage Virtual Domains are constructed within Virtual Private Clouds in your AWS account for maximum security
- **Operational Integration:** Media I/O from cloud or on-premise storage with S3, HTTP, FTP, SFTP, Aspera and protocols simplify workflow integration for cloud-based and on-premise implementations.
- **Workflow Integration:** Workflows can be triggered interactively with folder monitoring, or with API commands for cloud and hybrid cloud integration.
- **Scalable:** Once created, the domain can be dynamically scaled up and down as required while tasks continue to run.

Vantage Cloud Manager

Vantage Cloud Manager is a management and control dashboard for the provisioning, management and monitoring of multiple Vantage Virtual Domains. Cloud optimized and customizable, Vantage infrastructure is configured with a few mouse clicks in only minutes.



- **Provision Vantage Virtual Domains:** Select the region, number and instance types, then click Start to provision secure, optimized network infrastructure, a virtual SAN, and connectivity to the Vantage Virtual Domain.
- **Workflow Snapshots:** Vantage Cloud Manager captures and maintains snapshots of Vantage workflow definitions. Snapshots customize Vantage Virtual Domains with your workflows at startup.
- **Assure Security:** Vantage Cloud Manager maintains secure access to Vantage Virtual Domains with Virtual Private Cloud, AWS security group permissions and unique access credentials for each Vantage Virtual Domain.
- **Secure Remote Access:** Remotely access Vantage Virtual Domains from the Vantage Cloud Manager. Links are provided for each Vantage Virtual Domain to establish secure connections to any server in the network.
- **Monitor Health and Status:** The Vantage Cloud Manager dashboard is a highly visual display of the health and status of all Vantage Virtual Domains. Determine at a glance the status of all servers and connectivity. Vantage Virtual Domains are equipped with Vantage Job Status Dashboard for real-time status of individual jobs and tasks within the Vantage Virtual Domain from any web browser.
- **Account Management:** Every virtual domain is associated with an AWS user account for security, financial tracking and management functions.

Vantage Virtual Domain Component Specifications

Vantage Cloud Manager implements infrastructure on AWS EC2 instances that have been selected to optimize price performance of transcoding applications at AWS. These instance types maximize throughput and reduce bottlenecks for transcoding operations with very fast network and storage I/O.

Function	Application Target	Virtual CPU	CPU mem GB	GPU	Storage capacity GB	RAID	Network
Domain Server							
Testing	Testing workflows	8	15		160*	2X RAID 0 SSD	10 Gb/s
Production Small Domain	1-5 node domains	8	61		1600*	2X RAID 0 SSD	1 Gb/s
Production Large Domain	> 5 node domains	32	244		6400*	8X RAID 0 SSD	10 Gb/s
Transcode Server							
Testing	Testing workflows	8	15		100	2X RAID 0 SSD	10 Gb/s
Production	CPU transcode	32	60		640	2X RAID 0 SSD	1 Gb/s
Production Lightspeed	CPU & GPU Transcode	32	60	4x1536 CUDA	240	2X RAID 0 SSD	1 Gb/s

* Configured as Virtual Domain Shared Storage

Licensed Vantage Services

Features	Over the Top	Multi Format	International	
Transcode Pro		√	√	General purpose transcoder for broadcast, web and mobile applications
IPTV VOD		√	√	Transport Stream transcoder for IPTV and Cable VOD.
Multiscreen	√	√	√	Adaptive bit-rate transcoder for Over The Top applications.
Post Producer DAI		√	√	Automated assembly of multi-layered video compositions and montages.
Analysis Pro	√	√	√	Media analysis and measure video and file characteristics within your media workflows.
Metadata Processing	√	√	√	Process and convert metadata into compliant, deliverable formats.
SDK	√	√	√	The Vantage SDK service is for receiving command and control messages and delivering status.
Monitor	√	√	√	Monitor Watch folder monitor for Windows, S3, FTP, SFTP, HTTP and broadcast servers
Staging	√	√	√	Assemble and archive multi-layered directory structures for efficient, single file FTP delivery.
Transport	√	√	√	File transport using S/FTP, FTP/S, S3, HTTP, Aspera and Windows file system protocols
Catalog	√	√	√	Collect, store and propagate metadata data for analysis, tracking, and reporting.
Nielsen		√		Nielsen D4 watermarking filter. Requires connection to Nielsen TIC server
Signiant	√	√	√	Accelerated internet file transfer
Aspera	√	√	√	Accelerated internet file transfer
Tachyon			√	Cinnafilm frame rate conversion, deinterlacing and inverse telecine filter
Screen			√	DVB Subtitle burn-in filter

