Detailed Walk Through of the VMware Cloud on Dell EMC Service

November 2021
The VMware Cloud on Dell EMC Experience Walkthrough

Order

Activate

Consume
Three Easy Steps – #1: Ordering

Order → Activate → Consume
VMware Cloud Console

- VMware Managed
- Full Transparency of Operations
- Single Pane of Glass

Cloud Connectivity

Compute | Storage | Networking
Ordering starts with the IT Architect accessing the VMware Cloud Console showing the different services supported – including VMware Cloud on Dell EMC.
After selecting VMware Cloud on Dell EMC – the IT Architect is presented an informative overview of this service and the major parts of this offering.
Next, The VMware Cloud Console shows the IT Architect the steps along the journey to ordering VMware Cloud on Dell EMC, providing guidance and education along this path.
The IT Architect now specifies the location of where they wish to locate the VMware Cloud on Dell EMC infrastructure rack.
The IT Architect is then prompted to select the rack and power configuration for the infrastructure.
Infrastructure Rack Details

**R2 Rack**
- Best suited for Enterprise-scale deployments.
- Will accommodate up to 26 primary + 1 standby instances.
- PDU power inputs consistent with Enterprise data center power connectivity.

Redundant VeloCloud SD-WAN appliances (enables remote management access)
- Management plane switch
- Redundant Top of Rack (ToR) server aggregation switches
- ‘Standby’ instance for expansion

Configured number of VxRail instances (appliances)

Redundant Smart Power Distribution Units (in rear), floor/ceiling power

Rack enclosure: 42 RU

Note: For the latest specifications and options – please see the VMware Cloud on Dell Data Sheet
Next, the IT Architect selects the instance type, number of hosts, and cluster configuration.
If the number of hosts exceeds a single rack configuration, the service portal will trigger a request for multi-rack details.
VMware Cloud on Dell EMC Hardware Host Types

<table>
<thead>
<tr>
<th>Instance type</th>
<th>M1d.xSmall</th>
<th>G1s.small</th>
<th>M1s.medium</th>
<th>M1d.medium</th>
<th>M1d.xLarge</th>
<th>X1d.xLarge</th>
</tr>
</thead>
<tbody>
<tr>
<td>VxRail Chassis</td>
<td>VxRail E560F 1U1N</td>
<td>VxRail E560F 1U1N</td>
<td>VxRail E560F 1U1N</td>
<td>VxRail E560N 1U1N</td>
<td>VxRail E560F 1U1N</td>
<td>VxRail E560F 1U1N</td>
</tr>
<tr>
<td>CPU Sockets and Cores</td>
<td>2 x 28</td>
<td>1 x 28</td>
<td>1 x 28</td>
<td>2 x 28</td>
<td>2 x 28</td>
<td>2 x 28</td>
</tr>
<tr>
<td>vCPU</td>
<td>112 (56 Cores)</td>
<td>56 (28 Cores)</td>
<td>56 (28 Cores)</td>
<td>112 (56 Cores)</td>
<td>112 (56 Cores)</td>
<td>112 (56 Cores)</td>
</tr>
<tr>
<td>CPU Frequency</td>
<td>2.2 GHz All Core Turbo</td>
<td>2.2 GHz All Core Turbo</td>
<td>2.2 GHz All Core Turbo</td>
<td>2.2 GHz All Core Turbo</td>
<td>2.2 GHz All Core Turbo</td>
<td>2.2 GHz All Core Turbo</td>
</tr>
<tr>
<td>RAM</td>
<td>768 GB</td>
<td>256 GB</td>
<td>384 GB</td>
<td>768 GB</td>
<td>768 GB</td>
<td>1536 GB</td>
</tr>
<tr>
<td>Cache Storage</td>
<td>1.6 TB SSD SAS</td>
<td>1.6 TB SSD SAS</td>
<td>1.6 TB SSD SAS</td>
<td>3.2 TB NVMe</td>
<td>3.2 TB NVMe</td>
<td>3.2 TB NVMe</td>
</tr>
<tr>
<td>Primary Storage Capacity</td>
<td>3.8 TB SSD</td>
<td>11.5 TB SSD</td>
<td>23 TB SSD</td>
<td>23TB NVMe</td>
<td>61 TB SSD</td>
<td>61 TB SSD</td>
</tr>
<tr>
<td>Networking</td>
<td>2 x 25Gb</td>
<td>2 x 10Gb</td>
<td>2 x 10Gb</td>
<td>2 x 25Gb</td>
<td>2 x 25Gb</td>
<td>2 x 25Gb</td>
</tr>
</tbody>
</table>

* Significant capacity storage needs can be addressed through VMware Partnership with Faction storage services.
The Network Administrator can now configure the network requirements for the SDDC.
The IT Architect selects the subscription term (1 or 3 years) and confirms pre-requisite information entered.
Subscription Options for VMware Cloud on Dell EMC

1 Year and 3 Year Term Subscription Options

1 Year Commitment

- 1 Year term subscription commitment by customer
- Includes VMware Cloud managed SDDC and fully managed Dell EMC VxRail Infrastructure
- Pricing reflects a lower price than pilot, however, is more expensive than 3 Year Term

3 Year Commitment

- 3 Year term subscription commitment by customer
- Includes VMware Cloud managed SDDC and fully managed Dell EMC VxRail Infrastructure
- Pricing reflects a ~33% discount over the shorter 1 Year term
Finally, the IT Architect reviews and confirms the order
The IT Architect completes the order and receives an anticipated delivery date.
The IT Architect is informed that the order has been processed.
The IT Architect is informed that the equipment is shipped.
Three Easy Steps – #2: Activation

Order → Activate → Consume
Service Infrastructure Build and Deployment Details

- After VMware Cloud on Dell EMC order is placed:
  - Customer Infrastructure is built in the Dell EMC Order Fulfillment Center
  - It is pre-loaded with VMware SDDC Software
  - Customer network configuration is pre-configured
  - System is run through a battery of tests and burnt in
  - System is packaged for delivery and shipped to customer site

- A Dell EMC Technician arrives on site to install Infrastructure
  - Rack is uncrated and moved into position
  - Power and networking connections are made
  - Testing of the network connections and system are completed
  - Infrastructure is formally handed off to customer and becomes ‘live’
  - VMware begins management of the infrastructure
  - Customer can begin migrating workloads to their new service infrastructure

There is no additional cost for deployment - Cost is included in subscription
After a Dell Technician installed the Infrastructure, connected power and networking, and tested the deployment before activating the service, the IT Architect will log into the console to activate the service.
Three Easy Steps – #3: Consumption

Order

Activate

Consume
Using the same familiar vSphere interface, the IT Architect can setup the needed VMs and Containers. Using the same familiar vSphere interface, the IT Architect can setup the needed VMs and Containers.
The IT Architect can now activate HCX, allowing migration of VM's to the new service infrastructure.
Using HCX migration, the IT Architect can easily migrate workloads to the new service infrastructure.
The IT Architect can now activate Tanzu Kubernetes Grid Service, configure the cluster and network and take advantage of the Kubernetes service.
When needed, the IT Architect can order additional hosts.
The IT Architect selects how many additional hosts are needed and how they will be applied to the clusters.
If the number of hosts exceeds a single rack configuration, the service portal will trigger a request for multi-rack details.
The IT Architect confirm order of additional hosts (and racks). These hosts (and racks) are installed onsite by a Dell Technician in about a week.
Leveraging the VMware Cloud Console - the IT Architect can observe the health of the system at any point
Learn more about VMware Cloud on Dell EMC

Additional Resources are available

• VMware.com Product Page: [Here](#)

• VMware Cloud on Dell EMC Overview Video: [Video](#)

• VMware Cloud on Dell EMC Solution Brief: [Brief](#)

• VMware Cloud on Dell EMC Overview Deck: [Deck](#)
Thank You