

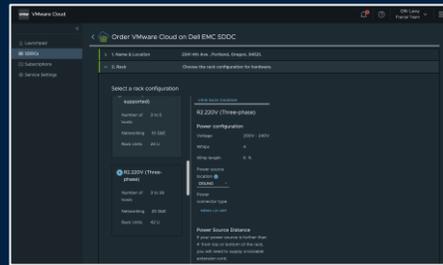
Detailed Walk Through of the VMware Cloud on Dell EMC Service

Kate Bignell

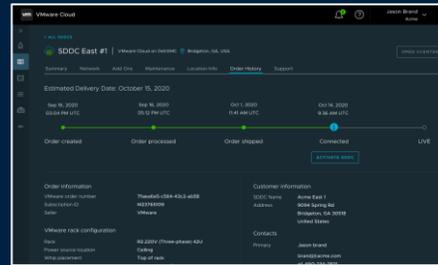
Director, Product Marketing
Cloud Infrastructure Business Group, VMware

April 2022

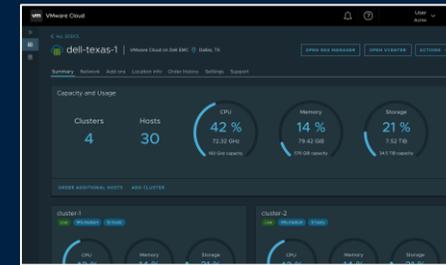
The VMware Cloud on Dell EMC Experience Walkthrough



Order

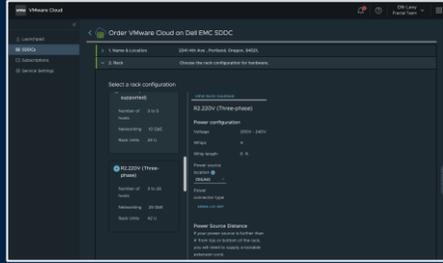


Activate

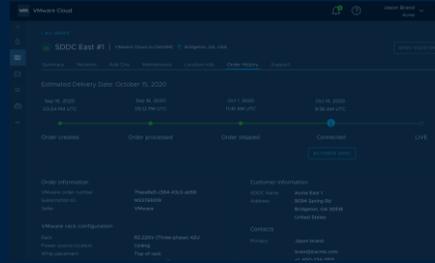


Consume

Three Easy Steps – #1: Ordering



Order

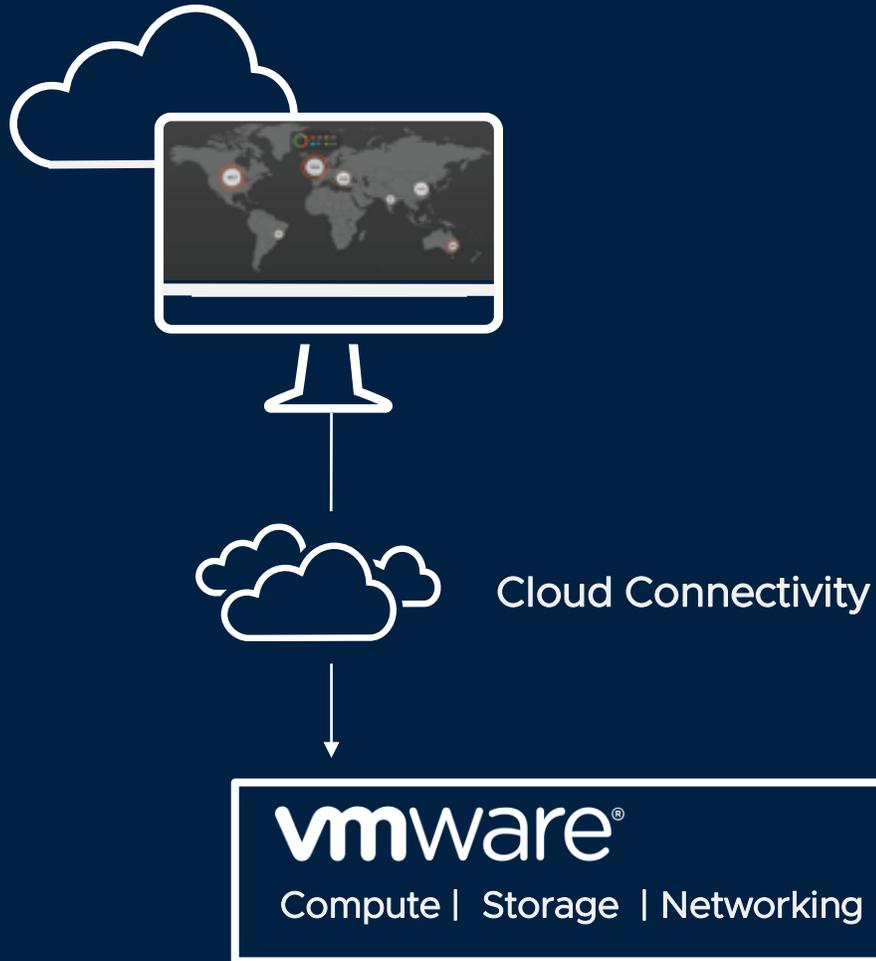


Activate



Consume

VMware Cloud Console



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

vmw VMware Cloud

Ofir Levy
Fractal Team

Launchpad

SDDCs

Subscriptions

Service Settings

Integrated Experiences for Multi-Cloud

VMware Cloud is your launchpad for all VMware multi-cloud infrastructure, solutions and services. Get started with VMware Cloud today and quickly unlock business value.

Solutions

- > Migration
- > Kubernetes
- > Disaster Recovery
- > Cloud Management
- > Desktops

Infrastructure

- > VMware Cloud on AWS
- > VMware Cloud on Dell EMC

Deploy your VMware Cloud SDDC on-premises with the best-in-class Dell EMC hardware and simultaneously enjoy the capabilities of the cloud. With our managed maintenance service and redundant infrastructure, you ensure the best up-time.

[LEARN MORE](#)
- > VMware Cloud Foundation

Tools

- > Sizer

SUPPORT

LIGHT



Ordering starts with the IT Architect accessing the VMware Cloud Console showing the different services supported – including VMware Cloud on Dell EMC

Launchpad

SDDCs

Subscriptions

Service Settings

VMware Cloud on Dell EMC

VMware Cloud on Dell EMC combines the simplicity and agility of the public cloud with the security and control of on-premises infrastructure delivered as a service to the data center and edge locations. It is built on the latest VMware software-defined data center suite including industry-leading compute, storage, and network virtualization that is optimized for Dell EMC VxRail hyper-converged infrastructure.

GET STARTED

▶ PLAY VIDEO

VMware Cloud on Dell EMC



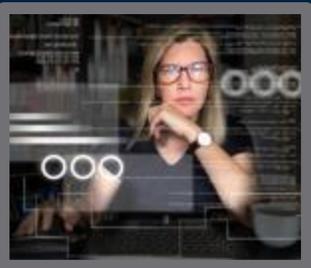
SUPPORT

Technical Overview

VMware Cloud on Dell EMC is a complete solution for data center infrastructure. It is based on industry-leading virtualization software technology from VMware and proven hyper-converged hardware from Dell EMC. The software components include VMware vSphere compute, VMware vSAN all-flash storage, and VMware NSX-T networking and security. Dell EMC foundational elements include VxRail hyper-converged infrastructure appliances and high-performance top of rack network switches.

The service delivery hardware is factory integrated inside a standard data center rack enclosure that can be positioned alongside other racks in a customer data center, remote office, and edge compute location. Customers can choose between 110-volt or 220-volt power circuits. For more information on the current service infrastructure hardware specifications, refer to documents in the

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



LIGHT



vmw VMware Cloud

Overview Journey Resources

Launchpad

SDDCs

Subscriptions

Service Settings

Your VMware Cloud on Dell EMC Journey Starts Here!

GET STARTED

Stage 1
Learn, plan, and prepare

- Connect with your VMware account team to determine whether VMware Cloud on Dell EMC meets your business requirements
- Identify the SDDC physical site address and local contact
- Site survey: space, power, and cooling
- Determine the required ethernet connections
- Obtain the IP networks for SDDC from enterprise network architects [↗](#)
- Review the account management overview [↗](#)
- Verify that the required VMware Cloud Services organization is accessible [↗](#)
- Fund account with appropriate credits [↗](#)

Get ready for a new SDDC deployment

Before you start the process of provisioning a new VMware Cloud on Dell EMC SDDC rack, collect important sites and networking information required for ordering the SDDC.

SUPPORT

LIGHT



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

vm VMware Cloud User Acme

< Add VMC on Dell Deployment

1. Name & location Specify SDDC name, location, site specifications and contacts

SDDC name
dell-texas-1

Address
Specify the shipping address of your SDDC

| | | |
|---------------------------------|---|---|
| Country United States | Street Address 345 N. 5th St. | Building / Suite (Optional) Enter building / suite number |
| City Dallas | State TX | Zipcode 74509 |

Contact details
Add up to 5 contacts who can confirm the details of the order, verify pre-shipment details and also coordinate shipment arrival and hardware installation on-site. Specify the role of each contact. At least 1 contact is required.

| Name | Responsibility | Email | Phone Number |
|------------|-----------------|-----------------|-----------------|
| John Smith | Primary Contact | jsmith@acme.com | +1 659-345-0988 |

+ ADD CONTACT

Notes (Optional)
Enter additional details of the location such as building/floor number and any additional contact information.

SAVE & CONTINUE

| | |
|--------------------|--|
| 2. Racks | Choose the rack configuration. |
| 3. Hosts | Choose an instance type and specify the number of hosts. |
| 4. Network | Specify network settings for VeloCloud, Out-of-band management, and DNS. |
| 5. Term commitment | Choose a term commitment for your SDDC. |
| 6. Review | Review your selections and order SDDC. |

The IT Architect now specifies the location of where they wish to locate the VMware Cloud on Dell EMC infrastructure rack.



vmw VMware Cloud

Ofir Levy
Fractal Team

Order VMware Cloud on Dell EMC SDDC

1. Name & Location 2341 4th Ave , Portland, Oregon, 94521,

2. Rack Choose the rack configuration for hardware.

Select a rack configuration

supported)

Number of 3 to 5 hosts

Networking 10 GbE

Rack Units 24 U

R2.220V (Three-phase)

Number of 3 to 26 hosts

Networking 25 GbE

Rack Units 42 U

VIEW RACK DIAGRAM

R2.220V (Three-phase)

Power configuration

Voltage 200V - 240V

Whips 4

Whip length 6 ft.

Power source location

CEILING

Power connector type

NEMA L21-30P

Power Source Distance

If your power source is further than 4' from top or bottom of the rack, you will need to supply a lockable extension cord.

Data center space requirements

Confirm that you meet the following requirements at your location.

Rack dimension 23.62" width x 47.24" depth (+1" split rear door clearance) x 78.39" height; 1100 lbs max weight

Power 200V - 240V voltage; 30 amp circuit; NEMA L21-30R socket

Environment 50°F - 95°F temperature; 10% - 80% relative humidity with 84.2°F max

SAVE & CONTINUE

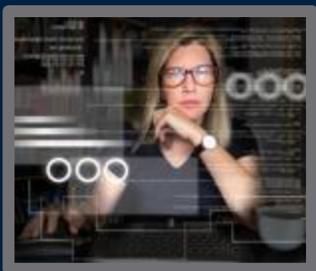
3. Hosts Choose host type and specify the number of hosts required

4. Network Specify network settings for VeloCloud, Out-of-band and

5. Term commitment Choose the a term commitment for your SDDC.

6. Review Review your selections and order SDDC

Support



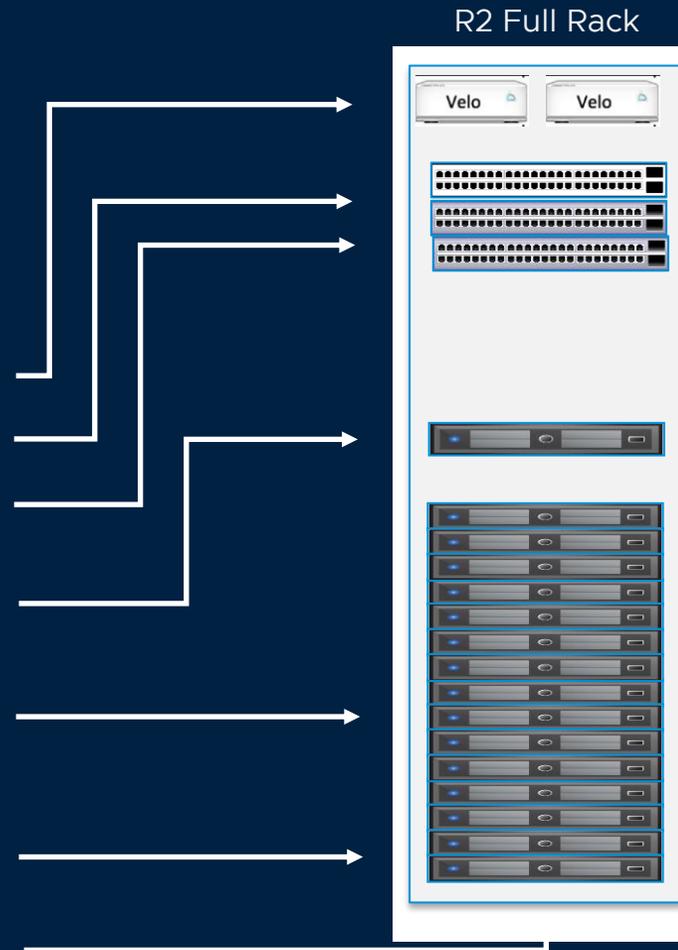
The IT Architect is then prompted to select the rack and power configuration for the infrastructure

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](#)

vm VMware Cloud

Order VMware Cloud on Dell EMC SDDC

1. Name & Location: SDDC North #1; 456 West 6th St, San Francisco, CA 94108, USA
2. Rack: R2, 220V (Three-phase), 42U
3. Hosts: Choose an instance type and specify the number of hosts required.

| | | |
|--|--|--|
| <input checked="" type="radio"/> M1d.xsmall * Sockets: 2 Cores: 56 Memory: 768 GiB Storage: 3.84 TiB No. of hosts: 3 | <input type="radio"/> G1s.small * Sockets: 1 Cores: 28 Memory: 256 GiB Storage: 11.5 TiB No. of hosts: 3 | <input type="radio"/> M1s.medium * Sockets: 1 Cores: 28 Memory: 384 GiB Storage: 23 TiB No. of hosts: 3 |
| <input type="radio"/> M1d.medium * Sockets: 2 Cores: 56 Memory: 768 GiB Storage: 23 TiB No. of hosts: 3 | <input type="radio"/> M1d.xlarge * Sockets: 2 Cores: 56 Memory: 768 GiB Storage: 61 TiB No. of hosts: 3 | <input type="radio"/> X1d.xlarge * Sockets: 2 Cores: 56 Memory: 1536 GiB Storage: 61 TiB No. of hosts: 3 |

* HOST NAME DECODER

Specify clusters later Specify cluster now

 - Your hosts will be placed into multiple default clusters.
 - You will be able to create clusters and move the hosts between clusters after your SDDC is deployed and live.

Total Capacity

| | |
|---------|-----------|
| Sockets | 6 |
| Cores | 168 |
| Memory | 2.47 TiB |
| Storage | 11.52 TiB |

SAVE & CONTINUE
4. Network: Specify network settings for VeloCloud, Out-of-band and SDDC management networks.
5. Term Commitment: Choose a term commitment for your SDDC.
6. Review: Review your selections and order SDDC.

Next, the IT Architect selects the instance type, number of hosts, and cluster configuration



vm VMware Cloud

Jason Brand Acme

< Add VMC on Dell Deployment

- Name & location: dell-texas-1; 345 N. 5th St. Dallas, TX 74509
- Racks: R2.220V
- Hosts: Choose an instance type and specify the number of hosts required.

You can add a minimum of 3 hosts and a maximum of 72 hosts to this SDDC

 - G1s.small * Qty: select or enter

1 socket, 24 cores, 256 GiB Memory, 11.52 TiB storage
 - M1s.medium * Qty: 30

1 socket, 24 cores, 384 GiB Memory, 20.25 TiB storage
 - M1d.medium * Qty: select or enter

2 socket, 48 cores, 320 GiB Memory, 20.25 TiB storage
 - M1d.xlarge * Qty: select or enter

2 socket, 48 cores, 768 GiB Memory, 61 TiB storage
 - X1d.xlarge * Qty: select or enter

2 socket, 48 cores, 1.5 TiB Memory, 61 TiB storage

*** HOST NAME DECODER**

Total capacity

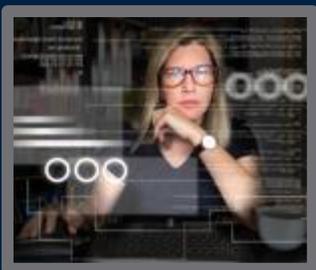
| | |
|---------|-----------|
| Hosts | 30 |
| Sockets | xxx |
| CPU | xxx cores |
| Memory | xxx TiB |
| Storage | xxxx TiB |

Your SDDC will have 2 racks

[VIEW DETAIL](#) | [HOW WE CALCULATE RACKS NEEDED](#)

 - You are responsible for supplying 12-Fiber MPO-MPO Pinless, Type B, Multimode OM4 cables for inter-rack connectivity.
 - Each rack needs to be within 327 ft. (100m) of each other

SAVE & CONTINUE
- Clusters: Specify clusters or keep it as default
- Network: Specify network settings for VeloCloud, Out-of-band
- Term commitment: Choose a term commitment for your SDDC
- Review: Review your selections and order SDDC



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

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

* Significant capacity storage needs can be addressed through VMware Partnership with Faction storage services.

vm VMware Cloud 🔔 ? User Acme

< Add VMC on Dell Deployment

| | | |
|------|-----------------|---|
| > 1. | Name & location | dell-texas-1; 345 N. 5th St, Dallas, TX 74509 |
| > 2. | Racks | R2.220V |
| > 3. | Hosts | 30 M1s.medium, 2 racks needed |
| > 4. | Clusters | 4 clusters |
| ▼ 5. | Network | Specify network settings for VeloCloud, Out-of-band and SDDC management networks. |

⚠ The settings you specify in this step cannot be changed once you confirm the SDDC order.

Instructions

- Specify networks that will not conflict with other networks in this SDDC or with other SDDCs in this org.
- The networks you specify here are typically private (RFC 1918).
- Contact your network administrator to make sure these settings are correct.
- You can learn more about the network step details on our documentation page: [VIEW DOCUMENTATION](#)
- The following CIDR blocks cannot be selected because they are used internally by VMware.
 - 10.0/8
 - 10.10/8
 - 10.30/8
 - 10.35/8
 - 10.170/8
 - 10.250/8 through 10.255/8
 - 192.168.1.0/24

NETWORK TOPOLOGY DIAGRAM

| Region | Cloud operations subnet | |
|--------|-------------------------|--|
| US | 12.3.4/24 | VMware deploys several management VMs in the cloud for each geographical region that are dedicated for your organization and not shared with other customers. Creation of this cloud operations network is a one-time operation for each region regardless of how many SDDCs you deploy in the region. |

VeloCloud IP assignment

DHCP

- This is for the external VeloCloud SD-WAN interface that is used by VMware to manage your SDDC. Specify an IP address from an existing on-premises network that is allowed to access the Internet.
- The specified IP address must be permitted to connect to TCP 443 and UDP 2426.

Out-of-band management subnet

12.3.4/24

rack-1

12.3.4/24

rack-2

- Specify a subnet to be used by VMware for troubleshooting and low-level operations of your physical devices in the rack.
- Specify a CIDR block that is non-routable within your network.
- Minimum CIDR size required: /24

SDDC management subnet

12.3.4/23

rack-1

12.3.4/24

rack-2

- Specify a routable subnet within your network for the management of vCenter, NSX and ESXi networks.
- Specify a /23 subnet for rack-1.
- Specify a /24 subnet for rack-2.

Local eBGP ASN

65000

Default: 65000

- Specify a local eBGP ASN for internal SDDC operations and uplink configuration. If you choose eBGP in the uplink configuration later, the local eBGP ASN specified here cannot be changed. Remote eBGP ASN can be specified later.
- 2-byte (64516-65534) or 4-byte (4200000000-4294967294) private ASN range is supported. If left blank, default value (65000) will be used.

Requirements

Ports TCP 443 and UDP 2426 are open and your SDDC location can connect to VMware Cloud

| | | |
|----|-----------------|--|
| 6. | Term commitment | Choose a term commitment for your SDDC |
| 7. | Review | Review your selections and order SDDC |



The Network Administrator can now configure the network requirements for the SDDC.

vm VMware Cloud

VMware Cloud

< Add VMC on Dell Deployment

- > 1. Name & location dell-texas-1; 345 N. 5th St. Dallas, TX 74509
- > 2. Racks R2,220V
- > 3. Hosts 30 M1s.medium, 2 racks needed
- > 4. Clusters 4 clusters
- > 5. Network Cloud operations subnet: 172.30.0.0/24; VeloCloud IP assignment: DHCP; Out-of-band management subnet: 172.18.188.0/24 (rack-1), 172.18.188.0/24 (rack-2); SDDC management subnet: 172.18.188.0/23 (rack-1), 172.18.188.0/24 (rack-2)
- ▼ 6. Term commitment Choose a term commitment for your SDDC
 - 3-Year Term
 - PAY IN FULL
 - MONTHLY INSTALLMENTS
 - 1-Year Term
 - PAY IN FULL
 - MONTHLY INSTALLMENTS
- SAVE & CONTINUE
- 7. Review Review your selections and order SDDC



The IT Architect selects the subscription term (1 or 3 years) and confirms prerequisite 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



vm VMware Cloud

< Add VMC on Dell Deployment

| | | |
|------|-----------------|--|
| > 1. | Name & location | dell-texas-1, 345 N. 5th St, Dallas, TX 74509 |
| > 2. | Racks | R2.220V |
| > 3. | Hosts | 30 M1s.medium, 2 racks needed |
| > 4. | Clusters | 4 clusters |
| > 5. | Network | Cloud operations subnet: 172.30.0.0/24; VeloCloud IP assignment: DHCP; Out-of-band management subnet: 172.18.188.0/24 (rack-1), 172.18.188.0/24 (rack-2); SDDC management subnet: 172.18.188.0/22 (rack-1), 172.18.188.0/24 (rack-2) |
| > 6. | Term commitment | 3-year term, pay in full |
| ▼ 7. | Review | Review your selections and order SDDC |

Name & location

SDDC name: dell-texas-1

Address: 345 N. 5th St., Dallas, TX, 74509, United States

Contacts: John Smith, Project Lead, jsmith@acme.com, +1 659-345-0988

Hardware

| | |
|-----------------------|---|
| Rack | R2.220V (Three-phase) |
| Rack quantity | 2 |
| Power source location | Ceiling |
| Max rack population | 24 |
| Host instance type | M1s.medium |
| Host quantity | 30 |
| Total capacity | 48 sockets, 600 cores, 9.6 TiB memory, 631.25 TiB storage |

Clusters

cluster-1: 10 hosts, M1s.medium, x sockets, xx cores, xxx TiB memory, xxx TiB Storage

cluster-2: 5 hosts, M1s.medium, x sockets, xx cores, xxx TiB memory, xxx TiB Storage

[VIEW ALL](#)

Network

| | |
|---------------------------------|--|
| Cloud operations network region | US |
| Cloud operations subnet | 172.30.0.0/24 |
| VeloCloud IP assignment | DHCP |
| Out-of-band management subnet | 172.18.188.0/24 (Rack 1), 172.18.188.0/24 (Rack 2) |
| SDDC management subnet | 172.18.188.0/24 (Rack 1), 172.18.188.0/24 (Rack 2) |

Term commitment

| | |
|----------------|------------------|
| Term | 3-Year term |
| Payment option | Pay upfront |
| Start date | approx. Sep 2021 |
| End date | approx. Sep 2024 |

Uplink connectivity

ⓘ The rack will arrive on-site fully cabled, however, to connect TOR switches to your existing upstream network, make sure that you have fiber or copper cables and SFP adapters available on-site for your upstream network. Contact your team to make sure these are available when the hardware engineer arrives on-site for rack installation. [Learn more](#)

Acknowledgment

I acknowledge that I am aware of the following information:

- Estimated delivery time is 4-6 weeks.
- Credits will be deducted upfront when the order is placed.
- The term begins at the time of activation/first use of the service post-delivery.
- Contact VMware support if you have any questions about the order or if you would like to make a change after placing the order.

ORDER SDDC

Finally, the IT Architect reviews and confirms the order

vm VMware Cloud

Jason Brand Acme

< ALL SDDCS

SDDC East #1 | VMware Cloud on Dell EMC | Bridgeton, GA, USA

Summary Network Add Ons Maintenance Location Info **Order History** Support

Estimated Delivery Date: October 15, 2020

Sep 16, 2020 03:04 PM UTC

Order created Order processed Order shipped Connected LIVE

ACTIVATE SDDC

Order information

| | |
|---------------------|-------------------------|
| VMware order number | 7faea6e5-c564-43c2-ab58 |
| Subscription ID | M23765109 |
| Seller | VMware |

Customer information

| | |
|-----------|--|
| SDDC Name | Acme East 1 |
| Address | 9094 Spring Rd Bridgeton, GA 30518 United States |

VMware rack configuration

| | |
|-----------------------|---|
| Rack | R2.220V (Three-phase) 42U |
| Power source location | Ceiling |
| Whip placement | Top of rack |
| Host instance type | M1s.medium ⓘ |
| Number of hosts | 6 |
| Total capacity | 24 sockets 576 cores 3.84 TiB memory 273 TiB storage |

Contacts

| | |
|---------|---|
| Primary | Jason brand brandj@acme.com +1 650-234-7821 VIEW ALL |
|---------|---|

Network

| | |
|-----------------|-------------------------------|
| Network setting | View settings |
|-----------------|-------------------------------|

Term commitment

| | |
|----------------|--------------|
| Term | 3-year term |
| Payment option | Pay upfront |
| Start date | Oct 15, 2020 |
| End date | Oct 15, 2023 |

SUPPORT



The IT Architect completes the order and receives an anticipated delivery date.



< ALL SDDCS

SDDC East #1 | VMware Cloud on Dell EMC | Bridgeton, GA, USA

OPEN VCENTER

Summary Network Add Ons Maintenance Location Info Order History Support

Estimated Delivery Date: October 15, 2020

Sep 16, 2020 03:04 PM UTC Sep 16, 2020 05:12 PM UTC



ACTIVATE SDDC

Order information

VMware order number: 7faea6e5-c564-43c2-ab58
 Subscription ID: M23765109
 Seller: VMware

VMware rack configuration

Rack: R2.220V (Three-phase) 42U
 Power source location: Ceiling
 Whip placement: Top of rack
 Host instance type: M1s.medium ⓘ
 Number of hosts: 6
 Total capacity: 24 sockets, 576 cores, 3.84 TiB memory, 273 TiB storage

Network

Network setting: [View settings](#)

Term commitment

Term: 3-year term
 Payment option: Pay upfront
 Start date: Oct 15, 2020
 End date: Oct 15, 2023

Customer information

SDDC Name: Acme East 1
 Address: 9094 Spring Rd, Bridgeton, GA 30518, United States

Contacts

Primary: Jason brand
 brandj@acme.com
 +1 650-234-7821
[VIEW ALL](#)

SUPPORT



The IT Architect is informed that the order has been processed.



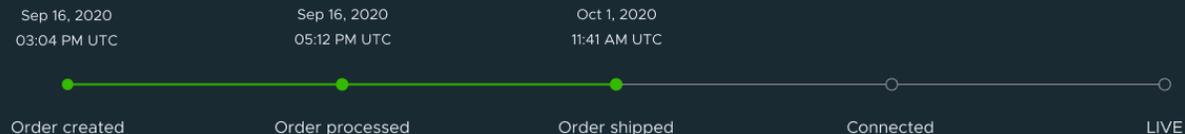
< ALL SDDCS

SDDC East #1 | VMware Cloud on Dell EMC | Bridgeton, GA, USA

OPEN VCENTER

Summary Network Add Ons Maintenance Location Info Order History Support

Estimated Delivery Date: October 15, 2020



ACTIVATE SDDC

Order information

| | |
|---------------------|-------------------------|
| VMware order number | 7faea6e5-c564-43c2-ab58 |
| Subscription ID | M23765109 |
| Seller | VMware |

VMware rack configuration

| | |
|-----------------------|---|
| Rack | R2.220V (Three-phase) 42U |
| Power source location | Ceiling |
| Whip placement | Top of rack |
| Host instance type | M1s.medium ⓘ |
| Number of hosts | 6 |
| Total capacity | 24 sockets 576 cores 3.84 TiB memory 273 TiB storage |

Network

Network setting [View settings](#)

Term commitment

| | |
|----------------|--------------|
| Term | 3-year term |
| Payment option | Pay upfront |
| Start date | Oct 15, 2020 |
| End date | Oct 15, 2023 |

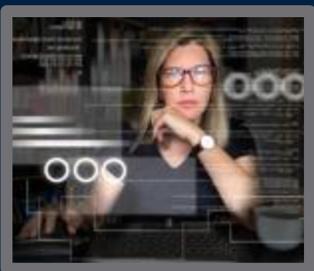
Customer information

| | |
|-----------|--|
| SDDC Name | Acme East 1 |
| Address | 9094 Spring Rd Bridgeton, GA 30518 United States |

Contacts

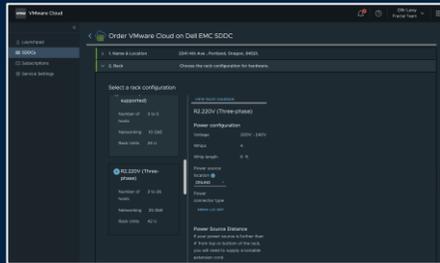
| | |
|---------|---|
| Primary | Jason brand brandj@acme.com +1 650-234-7821 VIEW ALL |
|---------|---|

SUPPORT

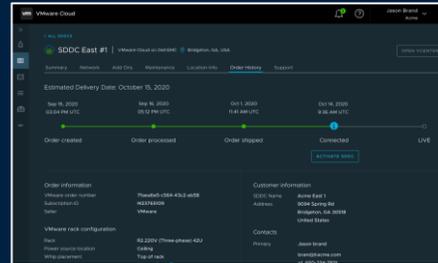


The IT Architect is informed that the equipment is shipped.

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



vm VMware Cloud

Jason Brand Acme

< ALL SDDCS

SDDC East #1 | VMware Cloud on Dell EMC | Bridgeton, GA, USA

OPEN VCENTER

Summary Network Add Ons Maintenance Location Info **Order History** Support

Estimated Delivery Date: October 15, 2020

| | | | |
|------------------------------|------------------------------|-----------------------------|-----------------------------|
| Sep 16, 2020 03:04 PM UTC | Sep 16, 2020 05:12 PM UTC | Oct 1, 2020 11:41 AM UTC | Oct 14, 2020 9:36 AM UTC |
|------------------------------|------------------------------|-----------------------------|-----------------------------|

Order created Order processed Order shipped **Connected** LIVE

ACTIVATE SDDC

Order information

VMware order number: 7faea6e5-c564-43c2-ab58

Subscription ID: M23765109

Seller: VMware

VMware rack configuration

Rack: R2.220V (Three-phase) 42U

Power source location: Ceiling

Whip placement: Top of rack

Host instance type: M1s.medium ⓘ

Number of hosts: 6

Total capacity: 24 sockets, 576 cores, 3.84 TiB memory, 273 TiB storage

Network

Network setting: [View settings](#)

Term commitment

Term: 3-year term

Payment option: Pay upfront

Start date: Oct 15, 2020

End date: Oct 15, 2023

Customer information

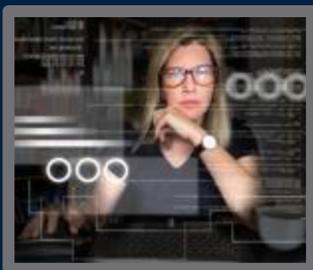
SDDC Name: Acme East 1

Address: 9094 Spring Rd, Bridgeton, GA 30518, United States

Contacts

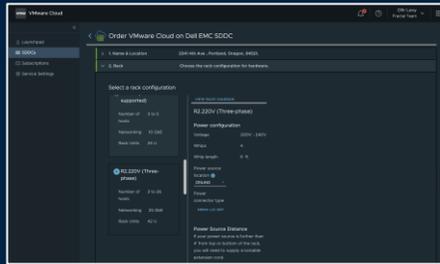
Primary: Jason brand, brandj@acme.com, +1 650-234-7821, [VIEW ALL](#)

SUPPORT

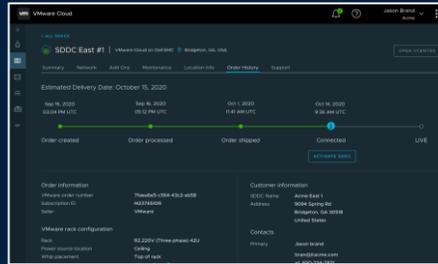


After a Dell Technician installed the Infrastructure, connected power and networking, and tested the deployment before activating the service, the IT Architect will log into the console to activate the service.

Three Easy Steps – #3: Consumption



Order



Activate



Consume

vm vSphere Client | Menu | Search in all environments | Administrator@VSPHERE.LOCAL

sof-h5-acceptance.eng.vmware.com | ACTIONS

Virtual Machines: 61
Hosts: 14

CPU: Free: 61.19 GHz
Used: 6.06 GHz | Capacity: 67.25 GHz

Memory: Free: 53.02 GB
Used: 24.89 GB | Capacity: 77.91 GB

Storage: Free: 1.18 TB
Used: 846.63 GB | Capacity: 2.01 TB

| Attribute | Value |
|-----------------------|---------------|
| PrimaryIO.ValoVersion | 2.71103 |
| PrimaryIO.appliance | 10.26.253.218 |

2 Items

| Assigned Tag | Category | Description |
|--------------|----------|-------------------------|
| smoking | one tag | ashtray loaded with ... |

Version Information

| Version | Value |
|---------|-------|
| Version | 6.7.0 |



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.



vm VMware Cloud

Jason Brand Acme

< ALL SDDCS

SDDC East #1 | VMware Cloud on Dell EMC | Bridgeton, GA, USA

OPEN VCENTER ACTIONS

Summary Network **Add Ons** Maintenance Location Info Order History Support

HCX

Active

Included with your VMware Cloud on Dell EMC service. Allows you to seamlessly migrate workloads to your SDDC from your existing vSphere deployments.

OPEN HCX IN VCENTER ACTIONS

The IT Architect can now activate HCX, allowing migration of VM's to the new service infrastructure

vm vSphere Client Menu Search in all environments cloudadmin@vmc.local

Home Shortcuts Hosts and Clusters VMs and Templates Storage Networking Content Libraries Global Inventory Lists Migration Center (HCX) Policies and Profiles Auto Deploy Administration Update Manager Tasks Events Tags & Custom Attributes

Migration Center (HCX)

chicago to vmc_chicago_aws_outpost Analyze 2 Plan 3 Migrate 4 Operations

| Wave | VMs | Applications | Total Memory | Total Storage | Create Networks | Target Cluster | Schedule | Action |
|----------------------------|-----|--------------|--------------|---------------|-----------------|----------------|-------------------|-----------|
| Wave 1 · Desktop Non-Prod | 400 | 21 | 2.5 TiB | 20 TB | 4 | VDI | 1/28/19 - 2/8/19 | EDIT WAVE |
| Wave 2 · Desktop Prod | 600 | 21 | 3.6 TiB | 30 TB | 4 | VDI | 2/11/19 - 2/22/19 | EDIT WAVE |
| Wave 3 · Non-Critical Apps | 560 | 40 | 1.12 TiB | 33.6 TB | 5 | Production | 2/25/19 - 3/8/19 | EDIT WAVE |
| Wave 4 · Critical Apps | | | | | | | | |



Using HCX migration, the IT Architect can easily migrate workloads to the new service infrastructure

vm VMware Cloud Jason Brand Acme

< Get Started with Tanzu Kubernetes Grid Service

1. SDDC Select an existing compatible SDDC.

Select a compatible SDDC for Tanzu Kubernetes Grid Service activation. Only SDDCs running on 1.15 v2 or higher will be qualified for activation.

| SDDC | Alert | State | Type | Version | Location | CPU | Memory | Storage | Clusters | Hosts | Cores |
|---------------|-------|-------|-----------------|---------|-----------------|-----------|----------|----------|----------|-------|-------|
| vmc_frankfurt | 🟢 | Ready | VMC on AWS SDDC | 1.15 | EU (Frankfurt) | 248.4 GHz | 1.15 TiB | 31.1 TiB | 3 | 9 | 324 |
| SDDC East#1 | 🟢 | LIVE | VMC on Dell EMC | 1.15 | New York, NY... | 331.2 GHz | 14% | 21% | 2 | 16 | 768 |

2 Items

2. Cluster Select an existing compatible cluster.

3. Network Configure the Workload Management Network.

4. Review Review selections and activate the Kubernetes solution.

SUPPORT

vm VMware Cloud Jason Brand Acme

< Get Started with VMware Tanzu

1. SDDC SDDC East #1

2. Physical cluster Select an existing compatible physical cluster.

| Cluster | Hosts | CPU | Memory | Storage |
|-----------|-------|---------|---------|-----------|
| Cluster-1 | 9 | 160 GHz | 230 GiB | 178 TiB |
| Cluster-2 | 7 | 130 GHz | 905 GiB | 120.5 TiB |

2 Items

3. Network Configure the Workload Management Network.

4. Review Review selections and activate the Kubernetes solution.

SUPPORT

vm VMware Cloud Jason Brand Acme

< Get Started with VMware Tanzu

1. SDDC SDDC East #1

2. Physical cluster Cluster-1

3. Network Configure the Workload Management Network.

Through workload management, you can create one or more namespaces to assign resources including network resources. Each namespace gets its own NSX-T provisioned T-1 router and workloads placed behind this router are non-routable from outside the namespace.

The namespaces need a service CIDR and Namespace Network CIDR for the Kubernetes environments, as well as Ingress/Egress CIDRs which are used to access these resources via Network Address Translation (NAT) from outside the namespaces. It is recommended that these CIDR addresses not overlap with other address space in your environment.

WORKLOAD MANAGEMENT NETWORK DIAGRAM



⚠️ The below CIDRs need to be validated so they are not coinciding with other CIDRs before activating VMware Cloud with Tanzu. This is a one time process which could take up to 12 seconds.

Service CIDR 10.96.0.0/24 (Default)

Ingress CIDR 192.168.1.0/24

Egress CIDR 192.168.2.0/24

Namespace Network CIDR 192.168.3.0/24

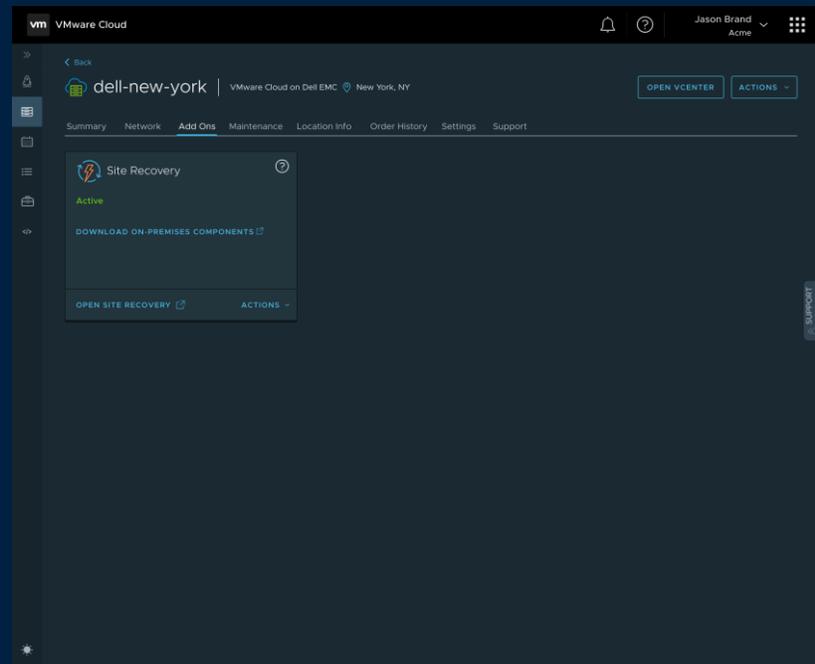
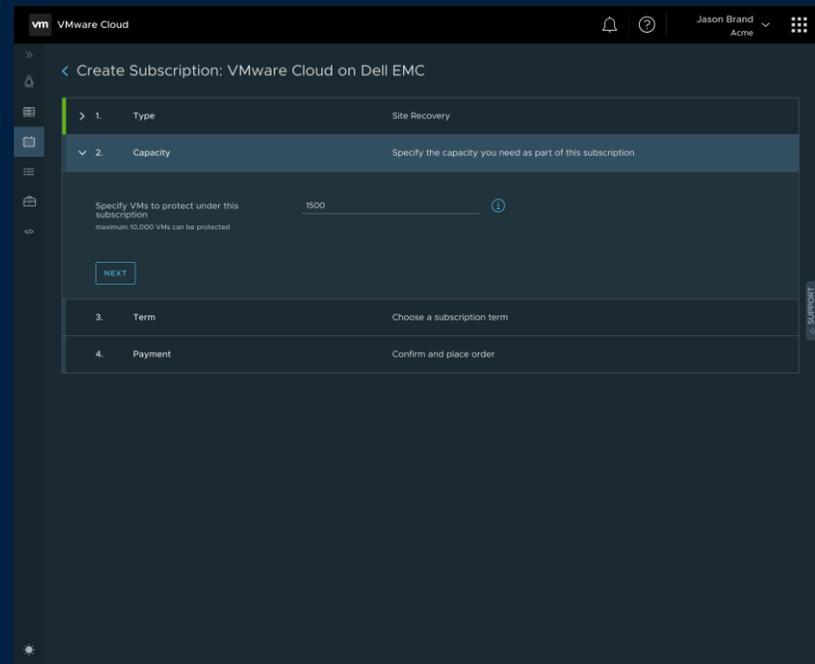
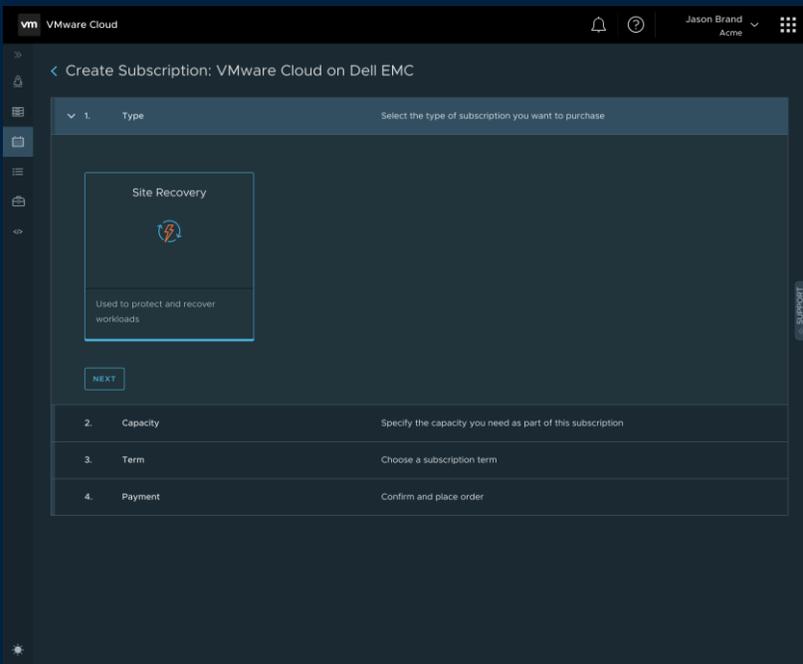
4. Review Review selections and activate the Kubernetes solution.

SUPPORT



The IT Architect can now activate Tanzu Kubernetes Grid Service, configure the cluster and network and take advantage of the Kubernetes service

NEW



The IT Architect can now activate Disaster Recovery as a Service by subscribing to VMware Site Recovery for VMware Cloud on Dell EMC

vm VMware Cloud User Acme

< dell-texas-1: Order additional hosts

1. Hosts Choose the number of additional hosts that you want to order

You can add 42 additional hosts to this SDDC. Currently an SDDC can only have the same host instance type.

M1s.medium * Qty.

1 socket, 24 cores, 384 GiB Memory, 20.25 TiB storage

* HOST NAME DECODER

| Capacity | Current | To be added | New total |
|----------|-----------|-------------|-----------|
| Hosts | 30 | -- | -- |
| Sockets | xx | -- | -- |
| CPU | xxx cores | + -- | = -- |
| Memory | xxx TiB | -- | -- |
| Storage | xxx TiB | -- | -- |

Specify host quantity to see rack details

2. Review Review your selections and order hosts



When needed, the IT Architect can order additional hosts.

vm VMware Cloud User Acme

< dell-texas-1: Order additional hosts

1. Hosts Choose the number of additional hosts that you want to order

You can add 42 additional hosts to this SDDC.

M1s.medium * Qty. 24
 1 socket, 24 cores, 384 GiB Memory, 20.25 TiB storage

*** HOST NAME DECODER**

| Capacity | Current | To be added | New total |
|----------|-----------|-------------|-------------|
| Hosts | 30 | 24 | 54 |
| Sockets | xx | xx | xx |
| CPU | xxx cores | + xxx cores | = xxx cores |
| Memory | xxx TiB | xxx TiB | xxx TiB |
| Storage | xxx TiB | xxx TiB | xxx TiB |

20 hosts will be added to rack-2
 4 hosts will be added to a new rack

[VIEW DETAIL](#) | [HOW HOSTS ARE ADDED](#)

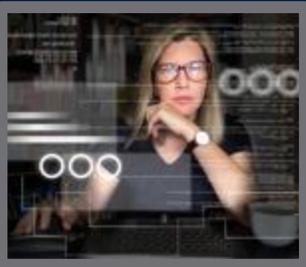
You are responsible for supplying all the inter-rack cables.
 Each rack needs to be within 492 ft. of each other

i Your hosts will be placed into 1 or multiple default clusters.

- Each cluster can have a minimum of 3 and a maximum of 16 hosts.
- You will be able to create new clusters and move the hosts between clusters after y...

[SAVE & CONTINUE](#)

2. Review Review your selections and order



The IT Architect select how many additional hosts are needed and how they will be applied to the clusters

vm VMware Cloud User Acme

< dell-texas-1: Order additional hosts

> 1. Hosts 24 M1s.medium, 1 new rack

▼ 2. Additional racks Review rack details

1 additional R2.220V (Three-phase) rack will be shipped to you

R2.220V (Three-phase) [VIEW RACK DIAGRAM](#) [RACK SPECIFICATION](#)

| | |
|---------------|---------|
| Host capacity | 3 to 26 |
| Networking | 25 GbE |
| Rack units | 42U |

Power configuration

| | |
|----------------------|-----------------------------------|
| Voltage | 200V - 240V |
| Whips | 2 |
| Whip length | 6 ft. |
| Power connector type | IEC 309 60A 3P+PE |

Power source location ⓘ ceiling

Max rack population ⓘ 27 (26 hosts + 1 standby) Your SDDC can accommodate 3 racks and 72 hosts in total

Confirm that you meet the following requirements at your location. You can also find these requirements in our [documentation](#)

- Extension cord If your power source is further than 6' from either the top or bottom of the rack, you will need to supply a lockable extension cord.
- Rack dimension Each rack requires 23.62" width x 47.24" depth (+11" split rear door clearance) x 78.39" height; 1100 lbs max weight
- Power Each rack requires 200V - 240V voltage; 30 amp circuit; IEC 309 60A socket
- Environment 50°F - 95°F temperature; 10% - 80% relative humidity with 84.2°F max dew point

[SAVE & CONTINUE](#)

3. Network Specify network settings for Out-of-band

4. Review Review your selections and order hosts

If the number of hosts exceeds a single rack configuration, the service portal will trigger a request for multi-rack details



vm VMware Cloud 🔔 🔗 User Acme

< dell-texas-1: Order additional hosts

- Hosts 24 Mts.medium, 1 new rack
- Racks Review rack details
- Network Out-of-band management subnet: 172.18.188.0/24 (rack-3); SDDC management subnet...
- Review Review your selections and order hosts

Name & location

SDDC name **dell-texas-1**

Address 345 N. 5th St., Dallas, TX, 74509, United States

Contacts **John Smith**
Project Lead
jsmith@acme.com
+1 659-345-0988

Hardware

Rack R2.220V (Three-phase)

Rack quantity 1 

Host instance type Mts.medium

Host quantity 24

Capacity to be added xx sockets, xxx cores, xxx TiB memory, xxx TiB storage

Host placement 20 hosts will be added to rack-2
4 hosts will be added to a new rack (rack-3)

Network

Out-of-band management subnet 12.3.4/24 (rack-3)

SDDC management subnet 12.3.4/24 (rack-3)

Term commitment

The term of the additional hosts is independent from the original SDDC term and is sold in the same term type as the original SDDC.

Term 3-Year term

Payment option Pay upfront

Start date approx. Sep 2021

End date approx. Sep 2024

2 separate orders will be created for you when you order these hosts. 1 order will be created with hosts to be added to your existing rack. 1 order will be created with the new racks and hosts in the new racks. 2 separate term commitment will be created. The 2 orders will be shipped separately.

Acknowledgment

I acknowledge that I am aware of the following information:

- Estimated delivery time is 2 weeks for the hosts on existing rack, 4-6 weeks for the new rack and hosts on the new rack.
- Credits will be deducted upfront when the order is placed.
- The term begins when your hosts are delivered and live.
- Contact VMware support if you have any questions about the order or if you would like to make a change after placing the order.

ORDER HOSTS

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.



vm VMware Cloud

ALL SDDCS

dell-texas-1 VMware Cloud on Dell EMC Dallas, TX

Summary Network Add ons Location info Order history Settings Support

Capacity and Usage

Clusters: 4 Hosts: 30

CPU: 42% (72.32 GHz / 160 GHz capacity)

Memory: 14% (79.42 GiB / 576 GiB capacity)

Storage: 21% (7.52 TiB / 34.5 TiB capacity)

cluster-1 (Live, Mts.medium, 10 hosts): CPU 42%, Memory 14%, Storage 21%

cluster-2 (Live, Mts.medium, 5 hosts): CPU 42%, Memory 14%, Storage 21%

cluster-3 (Live, Mts.medium, 10 hosts): CPU 42%, Memory 14%, Storage 21%

cluster-4 (Live, Mts.medium, 5 hosts): CPU 42%, Memory 14%, Storage 21%

Hardware Status

rack-1

| Component | Status |
|-----------------------|------------------|
| VeloCloud - Active | Normal |
| VeloCloud - Standby | Normal |
| Management switch | Normal |
| TOR switch 1 | Normal |
| TOR switch 2 | Problem detected |
| Hosts (24 Mts.medium) | Normal |

rack-2

Rack details

RACK SPECIFICATION

Your SDDC has room for 42 additional hosts and 1 additional rack.



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