

## Expert – Systems Administrator, Multi-Cloud Certification Description



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### Certification Overview

Successfully obtaining this certification validates the candidate's ability to manage resource pools across multiple cloud environments, including VMware vSphere, Amazon Web Services, Microsoft Azure and Dell Technologies partner ecosystems.

### Certification Requirements

To complete the requirements for this certification you must:

1. Achieve one of the following Specialist level certifications
  - Specialist – Systems Administrator, Converged Infrastructure Version 1.0
  - Specialist – Systems Administrator, Hyper-converged Infrastructure Version 1.0
  - Specialist – Systems Administrator, VxRail Appliance Version 1.0
  - Specialist – Systems Administrator, VxRack System FLEX Version 1.0
  - Specialist – Systems Administrator, VxRack System SDDC Version 1.0
2. Achieve the following third-party certification
  - VMware Certified professional 7 – Cloud Management and Automation (VCP7-CMA OR VCP-CMA 2019)
3. Pass the following Implementation Exam
  - [DEE-2T31 Expert - Systems Administrator, Multi-Cloud Exam](#)

Note: These details reflect certification requirements as of April 27, 2018.

Dell EMC Certified Professional Expert and Master certifications have two-year validity. Within that two-year window, a credential is considered active. Please refer to the [Policies and Procedures](#) document on the Dell EMC Proven Professional website for more information.

The Proven Professional Program periodically updates certification requirements. Please check the [Proven Professional CertTracker](#) website regularly for the latest information and for other options to meet the Associate level requirement.

### Other Certification Recommendations

Once you have achieved this Certification you may be interested in:

- [Master – Enterprise Architect](#)

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## DEE-2T31 Expert – Systems Administrator, Multi-Cloud Exam

### Exam Description



#### Overview

This exam is a qualifying exam for the **Expert – Systems Administrator, Multi-Cloud (DCE-SA)** track.

This exam focuses the administration, management and integration of multiple cloud platforms. Specifically, it addresses configuring workloads to run, and migrate, across clouds, orchestrate actions, manage resources and access controls, networking and interconnectivity, endpoint and infrastructure management, and security and governance across multiple clouds

Dell Technologies provides free practice tests to assess your knowledge in preparation for the exam. Practice tests allow you to become familiar with the topics and question types you will find on the proctored exam. Your results on a practice test offer one indication of how prepared you are for the proctored exam and can highlight topics on which you need to study and train further. A passing score on the practice test does not guarantee a passing score on the certification exam.

#### Duration

120 Minutes  
(60 Questions)

#### Pass Score:

60

#### Practice Test

Exam [DES-2T31](#)

#### Products

Products likely to be referred to on this exam include but are not limited to:

- VMware vSphere 6.x
- VMware vRealize Automation 7.3
- VMware vRealize Operations 6.4
- VMware vRealize Log Insight 4.3
- VMware vRealize Business for Cloud
- VMware VSAN 6.6
- VMware NSX 6.4
- VMware NSX Cloud
- VMware vRealize Suite Lifecycle Manager
- Amazon Web Services\*
- Microsoft Azure\*
- VMware vCloud Air\*
- VMware Cloud on AWS\*

\* The features and capabilities of these platforms is as of the exam publication, **April 27, 2018**

#### Exam Topics

Topics likely to be covered on this exam include:

##### Hybrid cloud (30%)

- Determine how to migrate/burst on-premises workloads to public cloud
- Demonstrate the ability to configure and deploy a hybrid cloud across all cloud platforms both on-premises and off premises.
- Manage both public and private cloud capabilities to ensure optimum running of the solution
- Manage the dependencies of components in public and private cloud.
- Troubleshoot (automation, orchestration, lifecycle management) workload mobility

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## **Orchestration (10%)**

- Illustrate the process used to create blueprints spanning multiple endpoints
- Evaluate customer requirements to build and maintain automation scripts/orchestrator workflows to ensure optimum running of the solution

## **Resource Management (21.7%)**

- Outline the steps used to provide user/group access to resources
- Describe the process used to administer a pool of resources across all service provider business groups
- Determine the process used to provision, de-provision, reclaim, reallocate and resize
- Determine the process used to move workloads across clouds
- Determine the requirements of workload placement leveraging customer requirements and service provider options

## **Networking and Interconnectivity (10%)**

- Demonstrate the process used to configure logical switches
- Demonstrate the process used to configure connectivity between clouds
- Demonstrate the process used to configure edge services

## **Endpoint and Infrastructure Management (15%)**

- Manage endpoint's lifecycle
- Determine how to implement multi-cloud service catalog consolidation and brokerage mechanisms throughout lifecycle
- Determine how to implement change management plans and rollback in conformance with Business Continuity Plans (BCPs).
- Determine and apply processes for administration and lifecycle management (patch management, retirement, documentation)

## **Security and Governance (13.3%)**

- Outline a disaster recovery plan for the cloud management platforms
- Based on customer requirements, apply the process used to manage cloud required integration points
- Based on customer requirements, evaluate technical compliance management systems lifecycle across multiple clouds
- Evaluate management of access permissions to roles

The percentages after each topic above reflects the approximate distribution of the total question set across the exam.

## **Recommended prior hands-on experience**

Candidates taking this exam are recommended to have 3 to 5 years of experience in managing cloud environments. They should be able to manage the following cloud platforms: VMware (vRealize Automation, vCloud Air (vCloud Director), VMware Cloud on AWS), Amazon Web Services, and Microsoft Azure

## **Recommended Certifications**

The following additional certifications are recommended for candidates preparing to take this exam:

- AWS Certified DevOps Engineer – Professional
- MCSE: Cloud Platform and Infrastructure

## Additional Resources

The following resources are recommended for candidates preparing to take this exam:

- VMware vRealize Automation 7.3 documentation (<https://docs.vmware.com/en/vRealize-Automation/index.html>)
- Microsoft Azure documentation (<https://docs.microsoft.com/en-us/azure/>)
- Amazon Web Services documentation ([https://aws.amazon.com/documentation/?nc2=h\\_ql\\_d&awsml=ql-5](https://aws.amazon.com/documentation/?nc2=h_ql_d&awsml=ql-5))
- VMware documentation (<https://www.vmware.com/support/pubs/>)
- VMware Cloud on AWS Technical Overview (<https://assets.cloud.vmware.com/v3/assets/blt719094f4883f620b/blt61dafaecad75e15b/5a345939b2f23a2f7143b373/download?disposition=inline>)
- VMware Cloud on AWS resources (<https://cloud.vmware.com/vmc-aws/resources>)

Note: These exam description details reflect contents as of **April 27, 2018**.

The Proven Professional Program periodically updates exams to reflect technical currency and relevance. Please check the Proven Professional website regularly for the latest information.

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