

## Dell SONiC Deploy

### Certification Description



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#### Certification Overview

This certification focuses on intermediate skills needed to deploy, configure, maintain, and troubleshoot Enterprise SONiC Distribution by Dell Technologies

#### Certification Requirements

To successfully complete this certification, a candidate must:

1. Have a sufficient knowledgebase/skill set through hands-on product experience and/or by consuming the recommended training.
2. Pass the Dell SONiC Deploy Exam.

Note: These details reflect certification requirements as of May 17, 2024.

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

**Dell Technologies Partners:** Achieving a certification validates capability; however, it does not imply authorization to deliver services. Services Competencies provide partners with the ability to deliver services under their own brand or co-deliver with Dell Technologies. Tiered partners are eligible to obtain Services Competencies upon completing the specific requirements outlined in the [Services Competencies Matrix](#). Only partners that have met these requirements should be delivering their own services in lieu of Dell Technologies Services.

## Exam Overview

This exam is a qualifying exam for the **Dell SONiC Deploy Certification**.

This exam focuses on intermediate skills needed to deploy, configure, maintain, and troubleshoot Enterprise SONiC Distribution by Dell Technologies.

## Products

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

- Enterprise SONiC Distribution by Dell Technologies Concepts and Installation
- Port groups and profiles
- VLAN trunk and access ports
- MC-LAG
- Various Routing protocols (BGP, PBR, OSPF)
- VXLAN
- QoS

## Exam Topics

Topics likely to be covered on this exam include:

### SONiC Bundles (2%)

- Compare Enterprise SONiC bundles

### SONiC Installation (11%)

- Compare SONiC installation, upgrade, and downgrade methods
- Install SONiC using the ONIE manual method
- Install SONiC using the ONIE automatic method
- Configure and verify the operation of ZTP

### SONiC Configuration (40%)

- Administer port groups and port profiles
- Configure management access
- Configure and verify port breakout
- Configure and verify VLAN trunk
- Configure and verify access ports
- Configure and verify the operation of Link Aggregation Groups
- Configure and verify VRRP
- Configure and verify MC-LAG
- Configure and verify Q-in-Q tunnel configuration
- Configure and verify VLAN translation

### Routing (24%)

- Administer L3 IP addressing on Ethernet ports
- Configure and verify static routing
- Configure and verify a single area OSPF topology
- Describe BGP operations
- Describe Equal Cost Multi-Pathing
- Configure and verify BGP
- Outline the operation of route redistribution
- Configure PBR

### VXLAN (16%)

- Describe the VXLAN operation
- Describe the operation of Asymmetric IRB
- Configure and verify BGP EVPN with Asymmetric IRB
- Describe the operation of Symmetric IRB