

Enterprise SONiC[®] Administration

FOUNDATION STAGE

Learn how Enterprise SONiC works,
how to configure it and how to
investigate problems.

Self-paced video training for network engineers and
administrators.

Enterprise SONiC Distribution by Broadcom



72

video lessons

9

modules

9

module assessments

At your pace

online video learning

Learn with Volker Scheel

More than **25 years in network engineering**, including roles at **AT&T**
and **STORDIS**. One instructor throughout the course.

[route2open](#) | [SONiC education since 2022](#)

OVER

450

learners in the
previous edition

One SONiC foundation. More hardware choice.

Build a shared approach to Enterprise SONiC by Broadcom administration across supported hardware vendors.
Connect configuration choices with system behaviour and operational checks.



Configure

Understand interfaces, routing and
network services.



Verify

Inspect system state and confirm how
the network operates.



Diagnose

Use counters, logs and support tools to
investigate faults.

Validated platform examples: Edgecore, Celestica, Dell Technologies, Micas, QCT and UfiSpace. [View current HCL](#). Qualification and features
depend on model, software package and release.

WHO IT IS FOR

Network engineers, administrators, architects and support
teams evaluating or working with Enterprise SONiC.

WHAT TO KNOW BEFORE YOU START

Ethernet, IP addressing, VLANs, basic routing and CLI
familiarity. No prior SONiC experience required.

THE LEARNING PATH

From first access to modern fabrics

Nine modules connect platform fundamentals with configuration, automation and day-to-day operations.

01	SONiC Introduction 5 lessons	SONiC building blocks and system architecture. Understand the principal components and how they interact.
02	Installation and Initial Setup 7 lessons	First access, installation and upgrades. Boot and management access, users, authentication and Zero Touch Provisioning.
03	Configuration Methods and Interfaces 7 lessons	Configuration methods and Klish. Physical interfaces, port channels and VLAN configuration. NEW Layer 3 Interfaces
04	Layer 2 and Layer 3 Redundancy 7 lessons	STP, MC-LAG, VRRP and Static Anycast Gateway. See how they work together in a redundant host-connectivity example.
05	Routing Protocols in SONiC 12 lessons	BGP, OSPFv2 and static routes. Routing-table inspection, operational verification, BFD and DHCP relay. NEW OSPFv3
06	Automation for SONiC 6 lessons	Ansible, RESTCONF and gNMI. Compare automation concepts and workflows for managing Enterprise SONiC.
07	Troubleshooting SONiC 10 lessons	Interface faults, counters and packet drops. Traffic mirroring, switch monitoring, on-box debugging and tech-support files.
08	VXLAN, EVPN and DCI 9 lessons	VXLAN, Layer 2 and Layer 3 VPNs, and EVPN. Redundant host connections, fabric monitoring and data-centre interconnect.
09	Campus Access and Security 9 lessons	PoE, LLDP-MED and port access control. IP Helper, port security, DHCP snooping and access control lists.

Lesson counts include module overviews and summaries. Each module also has one knowledge assessment. NEW identifies added technical lessons.

LEARN. COMPLETE. STAY CONNECTED.

Your course access

Learn at your own pace, earn your route2open certificate and join a private learner community.



Earn your Certificate of Achievement

Complete the required lessons and pass all nine module assessments to earn your route2open Certificate of Achievement.

Use each module assessment to check your understanding and identify topics to revisit.

An independent route2open course certificate.



SAMPLE

CERTIFICATE OF

Achievement

Awarded to

Alex Morgan

Enterprise SONiC Administration

FOUNDATION STAGE

Illustrative design - not an issued certificate



Keep learning with the community

Course access includes a private learner community to ask questions, discuss course topics and exchange experience, with participation from Volker and the route2open team.

SEPARATE TRAINING OPTION

Prefer a live deep dive?

4 days, 6 hours per day.

Live instructor-led training with hands-on labs.

[Explore SONiC bootcamps](#)



Already enrolled?

Existing learners receive access to the refreshed course and the private learner community.

An updated edition of the course

New recordings for every lesson, refreshed visuals and selected content updates. Added technical lessons: **Layer 3 Interfaces** and **OSPFv3**.

Add optional hands-on practice

Optional local and hosted lab routes are available separately. Labs are not included in course access or required for the certificate.

Explore the course and enrol

See the full curriculum, current price and access details.

[Click here or scan to view the course](#)

