



Developing SDN Applications H4C86S

Developing SDN Applications is an introductory course to SDN (Software-defined Networking) and development of SDN applications. The course provides an in-depth overview of SDN and guides the learner through how to develop applications that can dynamically control network behavior for advanced value and to make deploying new solutions more efficient and less time consuming.

Developing SDN Applications

Price USD \$3,200

Links to local schedules, pricing and [US/Canada](#)
[Mexico/Latin America](#)
[Brazil](#)

HP course # H4C86S

Category Networking

Duration 4 days

Course description

In this course you will learn how, based on OpenFlow as the open standard transport mechanism, SDN is used in networking environments. You will also learn how SDN separates the control and data plane, enabling you take advantage of the significant benefits of this technology.

Using general application basics, SDN solution design, and hands-on labs, you will also learn vendor-independent techniques for developing applications in the SDN environment. Learners will apply their knowledge during the course to write an application for the HP Virtual Application Networks (VAN) SDN Controller APIs (REST and Java APIs).

Once you complete the course, you will have a solid understanding of what SDN is and how to develop SDN applications. This course is approximately 50 percent lecture and 50 percent learning activities. The Developing SDN Applications course prepares candidates for the HP ASE - SDN Application Developer V1 within the HP ExpertOne program.

Audience

The Developing SDN Applications course is suitable for:

- ISVs – Application developers focused on creating SDN applications for sale in the HP SDN App Store
- Network Engineers with some application expertise who want to develop a specific application for their own company to solve a specific networking problem

Prerequisites

None, however basic networking and basic software development knowledge (Java) is highly recommended.

HP does recommend for those who want to learn more about general networking technologies such as IP addressing, VLANs, spanning tree and IP routing to view the following HP Networking Fundamentals videos:

- HP Networking Fundamentals Video Series - OSI Model, Rev. 13.31 (course ID 00764936)
- HP Networking Fundamentals Video Series - Binary, Rev. 13.31 (course ID 00764942)
- HP Networking Fundamentals Video Series - Data Flows, Rev. 13.31 (course ID 00765397)
- HP Networking Fundamentals Video Series - IP Addressing, Rev. 13.31 (course ID 00766100)
- HP Networking Fundamentals Video Series - IP Subnetting, Rev. 13.31 (course ID 00764933)
- HP Networking Fundamentals Video Series - TCP/UDP, Rev. 13.31 (course ID 00765415)
- HP Networking Fundamentals Video Series - VLANs, Rev. 13.31 (course ID 00764953)
- HP Networking Fundamentals Video Series - Routing, Rev. 13.31 (course ID 00764946)
- HP Networking Fundamentals Video Series - Spanning Tree, Rev. 13.31 (course ID 00764948)

Course objectives

The Developing SDN Applications course covers the important topics an application developer or network specialist needs to know when designing Software-defined Network based applications.

After completing this course, you will be able to:

- Explain what SDN means, from a technical and business perspective
- Understand SDN use cases
- Explain and understand how OpenFlow is the open-standard transport mechanism used to make SDN possible
- Understand how OpenFlow enables the separation of the control and data planes
- Understand and configure the HP VAN SDN controller
- Understand the basics of building an SDN application, including issues related to devices, controllers, and application types
- Understand how to design an SDN application, including decisions about application type, process of design creation, and examples of successful SDN application designs
- Understand the available APIs for developing applications and the modules that constitute an SDN application, and in-depth walkthroughs of actual SDN applications
- Understand the unique attributes of the HP VAN SDN Controller, and the common attributes shared with other controllers
- Learners will design and develop an SDN application for the HP VAN SDN Controller

Certification(s)

- HP ASE - SDN Application Developer V1

Exam(s)

- HPO-Y48 – Developing HP SDN Applications

Learn more at

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