

Cisco CCNA (200-301)

Identifying SDN Architecture Concepts

Learning Objective: Recognize fundamental SDN concepts

Description: Managing networks using controllers is not uncommon. You will learn how APIs interact with applications and devices.

- SDN Basics
 - 6.3.a Separation of control plane and data plane
 - Data Plane --decides what to do with the packets moving through the device--which interface to send it to, encapsulate or decapsulate.
 - Control Plane -- management interface for configuring the enter
 - e.q overlay: VXLAN --Layer 2 overlay over underlying physical infrastructure.
 - e.q. fabric: network topology
 - e.q. underlay: infrastructure
 - 6.3.b North-bound and south-bound APIs
 - North-bound API
 - API between Controller and Application
 - Between Application Plane and Control Plane
 - Between the User Interface and the Controller
 - South-bound API
 - API between Controller and Device
 - Between the Control Plane and Data Plane, regardless of virtual or physical devices.

Endnotes, External and Etc.

6.3 Describe controller-based and software defined architectures (overlay, underlay, and fabric)

- 6.3.a Separation of control plane and data plane
- 6.3.b North-bound and south-bound APIs