

## Cisco CCNA (200-301)

### Configuring and Verifying VLANs

Learner Objective: Configure and Verify VLANs

Description: A switch has 2 logical capabilities to help businesses. You will learn why this is possible and we can configure it to be of use to any size of business and also how to use a Cisco switchport more effectively.

#### Q: What are vlans and what are they used for?

- data vlans
- voice vlans
- Demo

#### Q: How do we configure them?

- each port (access or trunk)
- only access ports can be in vlans
- a single port can be in only one vlan
- Demo on NYCORE1

```
NYEDGE1 is connected to FastEthernet 1/0/1 VLAN 10
NYWAN1 is connected to FastEthernet 1/0/2 VLAN 10
NYACCESS1 is connected to FastEthernet 1/0/22 VLAN 20
NYCORE2 is connected to FastEthernet 1/0/24 and VLAN 20
```

- show vlan or show vlan brief

#### Q: Are there any other considerations to consider, like security?

- Default VLAN
  - interface range command
  - interfaces
  - shutdown
  - access ports

#### Endnotes, External and etc.,

- 2.1 Configure and verify VLANs (normal range) spanning multiple switches
  - 2.1.a Access ports (data and voice)
  - 2.1.b Default VLAN
  - 2.1.c Connectivity
- Exam 200-301 Objectives