

## **Cisco CCNA (200-301)**

### **Identifying Routing Components**

Learning Objective: Identify Routing Components

Description: Identify common routing components. You will compare and contrast Routers and L3 Switches.

#### **Q: What does routing do and where do we use it?**

- Forwards packets towards destination networks using IP addresses.
- It can do this between vlans or across the internet.
- Diagram

#### **Q: What can be used to perform routing?**

- Routers
- Layer 3 switches

#### **Q: When would we use a Router over a Layer 3 switch or vice versa?**

- Routers when we are connecting to WAN environments and need complex routing.
- Layer 3 switches when routing between multiple LANs and also needing to provide Layer 2 switches too.

#### **Endnotes, External etc.,**

- 1.1.a Routers
- 1.1.b L3 Switches
- Exam 200-301 objectives