#### **CCNA**

#### **ICND-2** Notes

Interconnecting Cisco Networking Devices, Part 2

#### **Somenath Sinha**

May 2018

#### **Contents**

I	LAN Switching	2
1	VLAN Trunking Protocol (VTP)	3
2	Spanning Tree Protocol (STP)	4
3	EtherChannel	5
II	IP Routing	6
4	Routing Between VLANs	7
5	Open Shortest Path First (OSPF)	8
6	Enhanced Interior Gateway Routing Protocol (EIGRP)	9
III	Wide Area Networks (WANs)	10
7	Point-to-Point Protocol (PPP)	11
8	Options for WAN Connectivity	12
9	WAN Topologies	13
10	Border Gateway Protocol (BGP)	14
IV	Network Services	15
11	Hot Standby Router Protocol (HSRP)	16

13 Cloud Resources		18
V Securii	ng Network Devices	19
14 Advanced	d Switch Security	20
15 Access C	control Lists (ACLs)	21
VI Netwo	rk Management	22
16 Network I	Management Protocols	23
17 Network I	Programmability	24

# Part I LAN Switching

### **VLAN Trunking Protocol (VTP)**

#### **Spanning Tree Protocol (STP)**

#### **EtherChannel**

#### Part II

#### **IP** Routing

### **Routing Between VLANs**

#### **Open Shortest Path First (OSPF)**

### **Enhanced Interior Gateway Routing Protocol (EIGRP)**

## Part III Wide Area Networks (WANs)

#### **Point-to-Point Protocol (PPP)**

#### **Options for WAN Connectivity**

#### **WAN Topologies**

#### **Border Gateway Protocol (BGP)**

### Part IV Network Services

### **Hot Standby Router Protocol** (HSRP)

#### **Quality of Service (QoS)**

#### **Cloud Resources**

# Part V Securing Network Devices

#### **Advanced Switch Security**

#### **Access Control Lists (ACLs)**

# Part VI Network Management

#### **Network Management Protocols**

#### **Network Programmability**