Demonstrations with physical devices

Lecture 7

Table of Contents

1. Demo – scenario 1
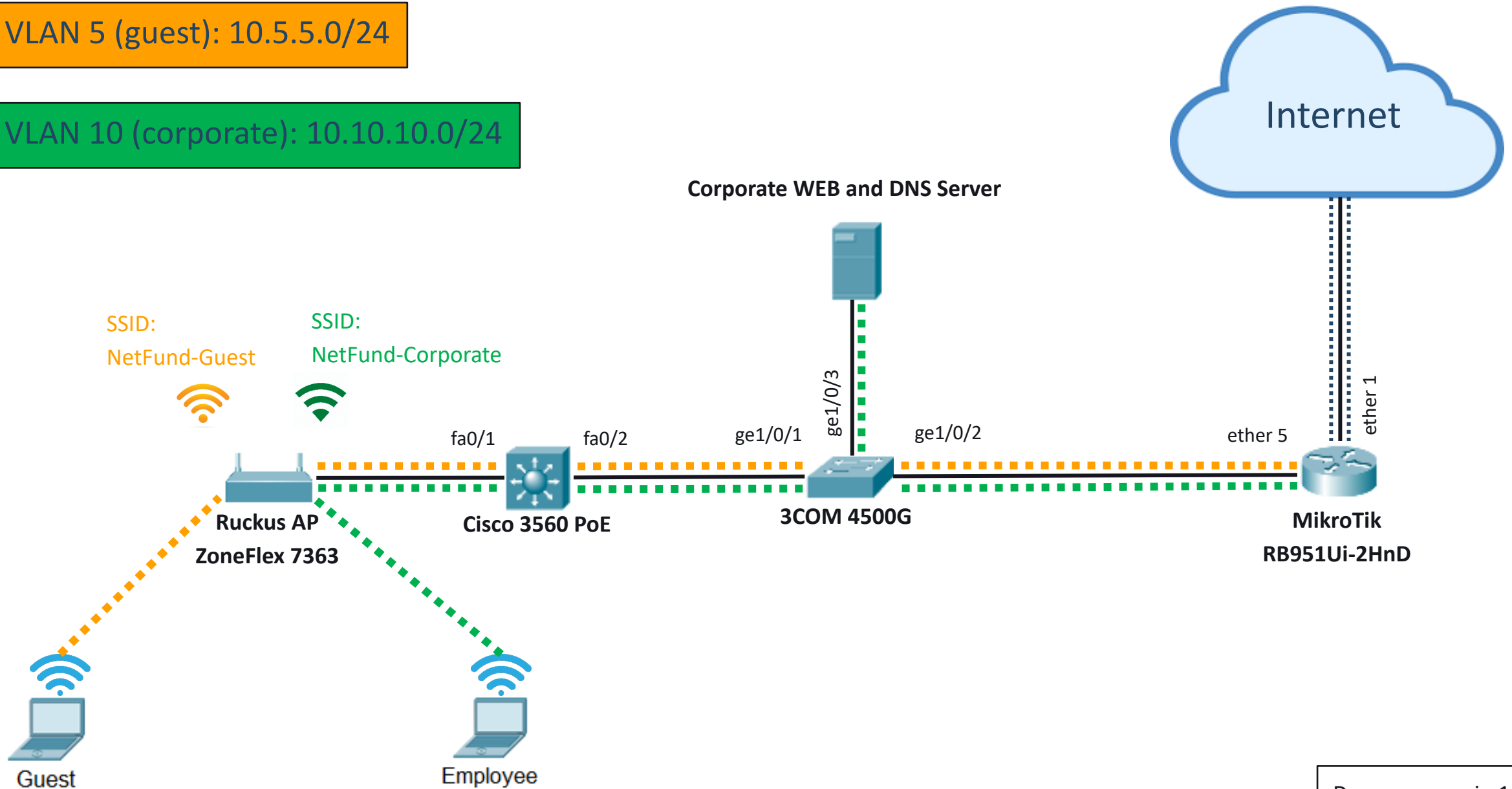2. Demo – scenario 2

Demo – scenario 1

Theory is when you know everything but nothing works.

Practice is when everything works but no one knows why.

In our lab, theory and practice are combined: nothing works and no one knows why.

VLAN 5 (guest): 10.5.5.0/24

VLAN 10 (corporate): 10.10.10.0/24

Internet

Corporate WEB and DNS Server

SSID:
NetFund-Guest

SSID:
NetFund-Corporate

fa0/1

fa0/2

ge1/0/1

ge1/0/3

ge1/0/2

ether 5

ether 1

Ruckus AP
ZoneFlex 7363

Cisco 3560 PoE

3COM 4500G

MikroTik
RB951Ui-2HnD

Guest

Employee

Demo - scenario 1

Topology details – scenario 1

- DHCP server for both VLANs is the Cisco device
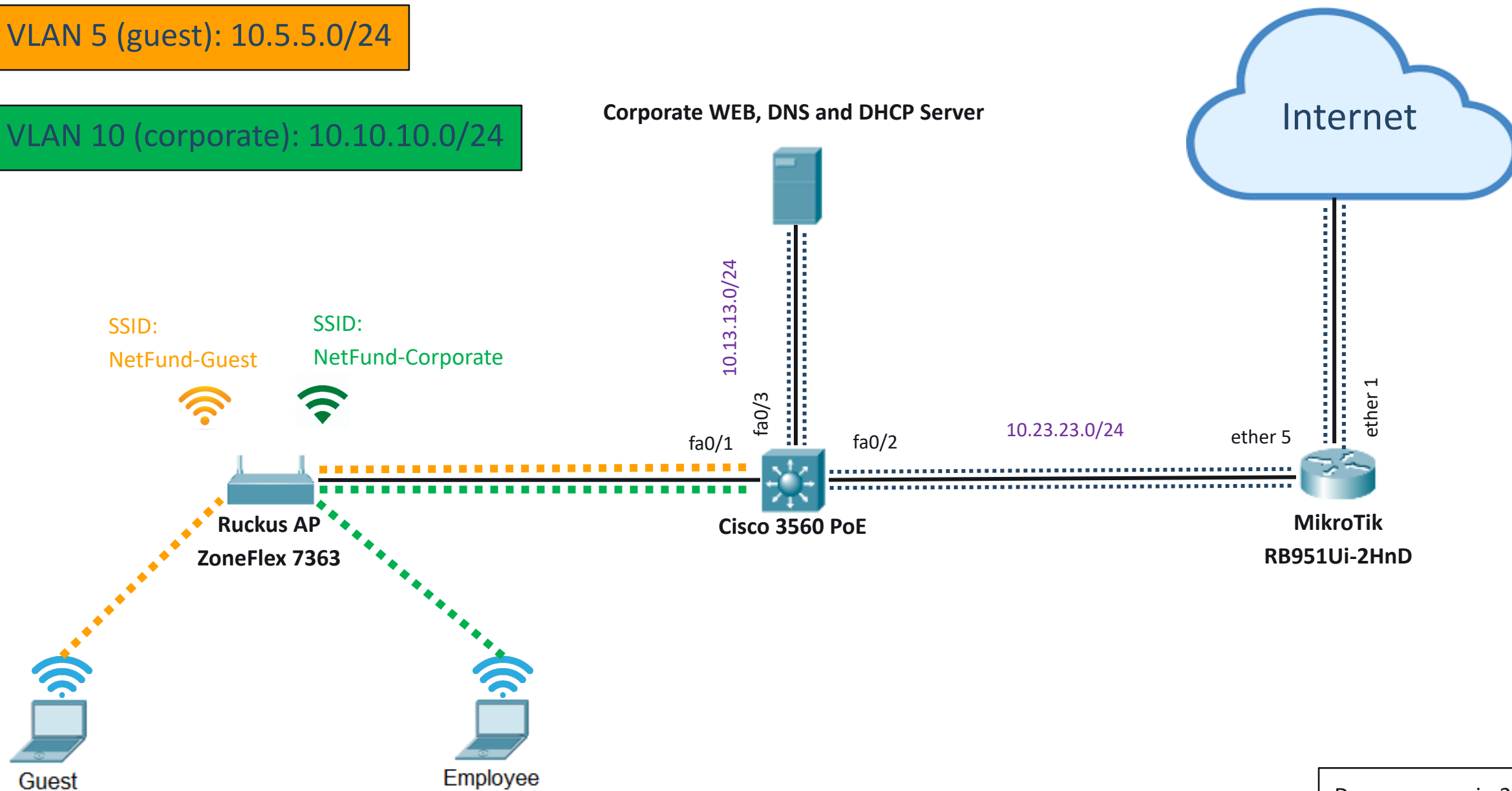- MikroTik is routing the VLANs and making NAT to "outside"

Device, interface	IP address
Cisco, VLAN 5	10.5.5.3
Cisco, VLAN 10	10.10.10.3
3COM, VLAN 5	(10.5.5.2)
3COM, VLAN 10	(10.10.10.2)
Corporate server (Web and DNS)	10.10.10.101
MikroTik, VLAN 5	10.5.5.1
MikroTik, VLAN 10	10.10.10.1

Demo – scenario 2

Topology details – scenario 2

- DHCP server for both VLANs is the (Windows) Server
- Cisco is routing the VLANs, MikroTik is making NAT to "outside"

Device, interface	IP address
Cisco, VLAN 5	10.5.5.3
Cisco, VLAN 10	10.10.10.3
Cisco, fa0/3	10.13.13.3
Cisco, fa0/2	10.23.23.3
Corporate server (Web and DNS)	10.13.13.101
MikroTik, ether 5	10.23.23.1

Summary

1. Demo – scenario 1
2. Demo – scenario 2