

# Test Project

IT Network Systems Administration

Module B –Network Challenge

(Cisco Packet Tracer)

Submitted by: ITNSA-ID Team



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# **Introduction to Test Project**

# This Test Project proposal consists of the following document/file:

- LKSN2019\_ITNETWORK\_MODUL\_B.pdf
- LKSN2019\_ITNETWORK\_MODUL\_B.pka

# Introduction

The competition has a fixed start and finish time. You must decide how to best divide your time.

Please carefully read the following instructions!

When the competition time ends, please leave your station in a running state.

Password for all device and service: Pa\$\$worD



# **ENGINEERING NOTES**

# **IP ADDRESS TABLE**

DEVICE	INTERFACE	IP AADDRESS	SUBNET MASK
FW-01	G1/1 - inside	192.168.254.2	255.255.255.252
	G1/2 - inside_1	192.168.254.6	255.255.255.252
	G1/3 - outside	172.16.100.100	255.255.255.0
DSW-01	G1/0/1	192.168.254.1	255.255.255.252
DSW-02	G1/0/2	192.168.254.5	255.255.255.252
MOW	G0/0	172.16.100.1	255.255.255.0
	G0/1	100.97.24.2	255.255.255.252
	S0/1/0	10.1.0.1	255.255.255.252
	S0/1/1	10.1.1.1	255.255.255.252
RTK	G0/0.100	100.97.24.1	255.255.255.252
	G0/0.200	200.88.45.254	255.255.255.0
	G0/0.300	30.27.34.55	255.255.255.192
	G0/0.400	40.10.0.24	255.255.255.128
	G0/1	1.1.1.254	255.255.255.0
	G0/2	10.10.10.1	255.255.255.0
	G0/0/0	200.88.45.2	255.255.255.0
WW	G0/0/1	192.168.100.254	255.255.255.0
KVX	S0/1/0	10.1.0.2	255.255.255.252
	S0/1/1	10.1.1.2	255.255.255.252
TOE	G1/2 – outside	30.27.34.1	255.255.255.192
TOF	G1/1 – inside	10.10.10.1	255.255.255.0
VIVO	G0/0/0	40.10.0.126	255.255.255.128
YKS	G0/0/1	10.200.200.1	255.255.255.0



## **IP ADDRESS ON HQ SITE:**

### **VLAN**

Vlan ID	Vlan Name	IP Network
10	HQ	192.168.10.0/24
20	Voice	192.168.20.0/24
30	MGMT	192.168.30.0/24

#### **DSW-01**

Vlan10 :192.168.10.254Vlan20 :192.168.20.254

#### **DSW-02**

Vlan10 :192.168.10.253Vlan20 :192.168.20.253

• DHCP Service for VLAN 10 and VLAN 20

#### KGB

DHCP (Vlan 10)

• KGB devices use VLAN 10

#### **KREMLIN**

• DHCP (Vlan 20)

• KREMLIN devices use VLAN 10

#### DNS

DNS available at IP 1.1.1.1

o wsc2019.ru resolve to 1.1.1.1

#### **VTP**

• Version 2

Domain : wsc2019.ruVTP-Server : DSW-01

• VTP-Client : DSW-02, ASW-01

#### **VLAN**

VLAN 10: HQVLAN 20: VOICEVLAN 30: MGMT

#### **SPANNING TREE**

Mode: Rapid-pvstVLAN 10-30:

Primary Root : DSW-01Secondary Root: DSW-02



#### **PORT-CHANNEL DSW-01 and DSW-02**

Channel-group 1

Protocol: LaCP

## **INTERNAL ROUTING**

#### **HQ Site**

- EIGRP AS 2019
  - 0 192.168.254.0/30
  - 0 192.168.254.4/30
  - 0 172.16.100.0/24
  - o VLAN10
  - o VLAN20
  - o VLAN30

#### **RT-KVX and RT-MOW**

- OSPF AS 3000
  - o Area 0 10.0.1.0/30 10.1.1.0/30
  - o Area 1 192.168.100.0/24
- · Redistribute eigrp into ospf

## **EXTERNAL ROUTING**

- Advertise only IP Public RTK to all router.
  - o BGP 65001 > YKS
  - o BGP 65002 > MOW
  - o BGP 65003 > KVX
  - o BGP 65004 > RTK

## **CME at MOW**

Hostname	Ext. Number
KGB	1001
KREMLIN	1002
YURI	2001

## **Other Information**

- ASA ACL allow ip any any
- MOW-KVX Serial 0/1/0 encap PPP with authentication PAP
- ASA Static default route
- NAT Access at MOW, YKS, and TOF. All Laptop and Servers could ping 1.1.1.1 and access internet (<a href="http://wsc2019.ru">http://wsc2019.ru</a>)



# **NETWORK DIAGRAM**

