LOMBA KOMPETENSI SISWA (LKS)
SEKOLAH MENENGAH KEJURUAN
TINGKAT PROVINSI TAHUN 2024

TEST PROJECT MODUL D
NETWORK TROUBLESHOOTING - PACKET TRACER

Bidang Lomba
IT NETWORK SYSTEMS ADMINISTRATION

Module Packet Tracer Troubleshooting Scenario

There will be 5 "Trouble tickets" to solve, each ticket describes a situation from a user perspective. The trouble tickets will be presented in paperform, just like the example on the next page. You have to write your answers regarding "What is the cause of the problem" and the "Recommended solution to fix this" for each Trouble ticket.

For all answers, the judgment teams will NOT judge your spelling, grammar or wordings, only the actual cause and solutions.
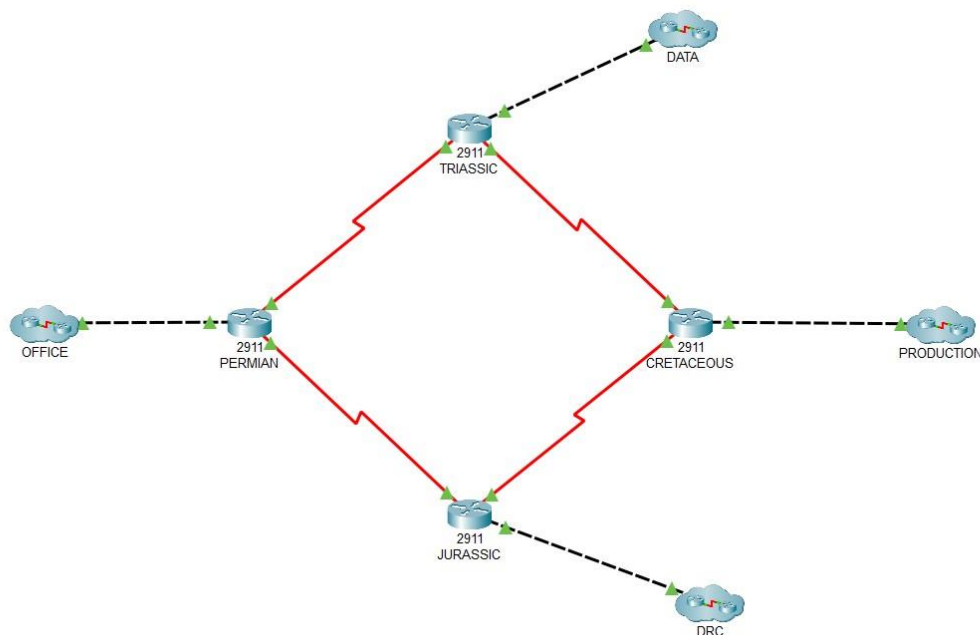
Engineering Notes

Hi, welcome to NSA-ID, NSA-ID building new infrastructure to expand the reach of its business processes.
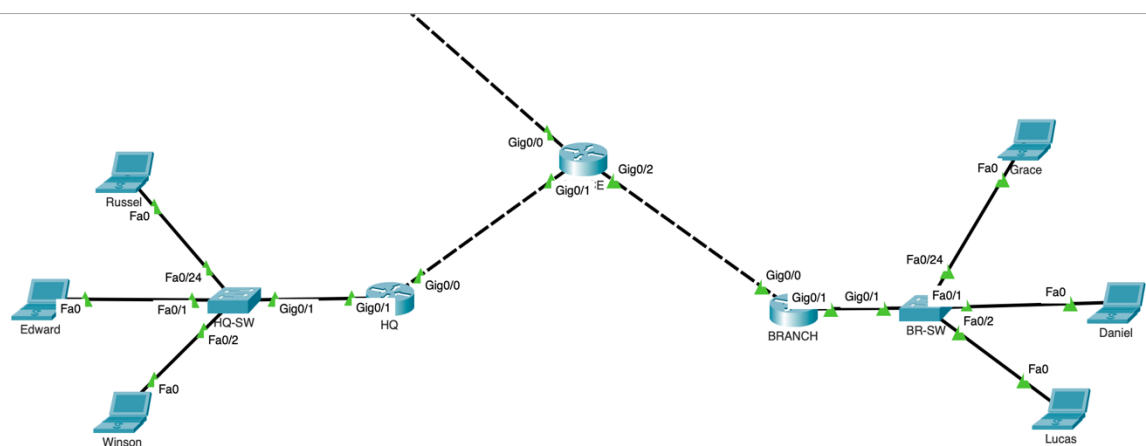
By utilizing various technologies from Cisco such as Routing, Switching and site to site VPN. However, building this infrastructure requires more network engineers, and you are a new network engineer at NSA-ID. Your first task is to fix some problems on the existing network from a user perspective.
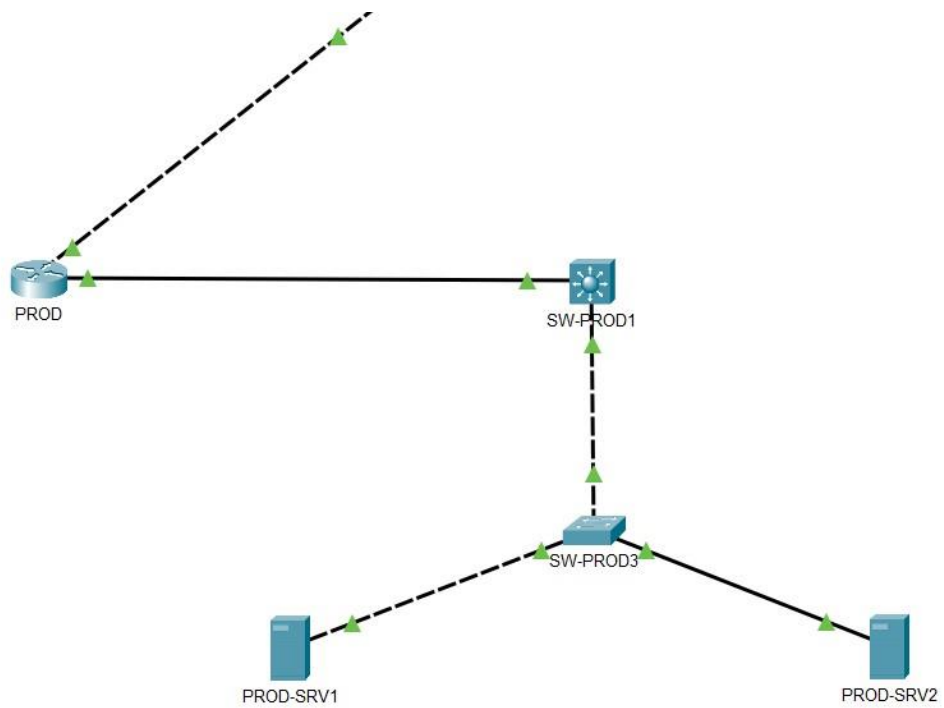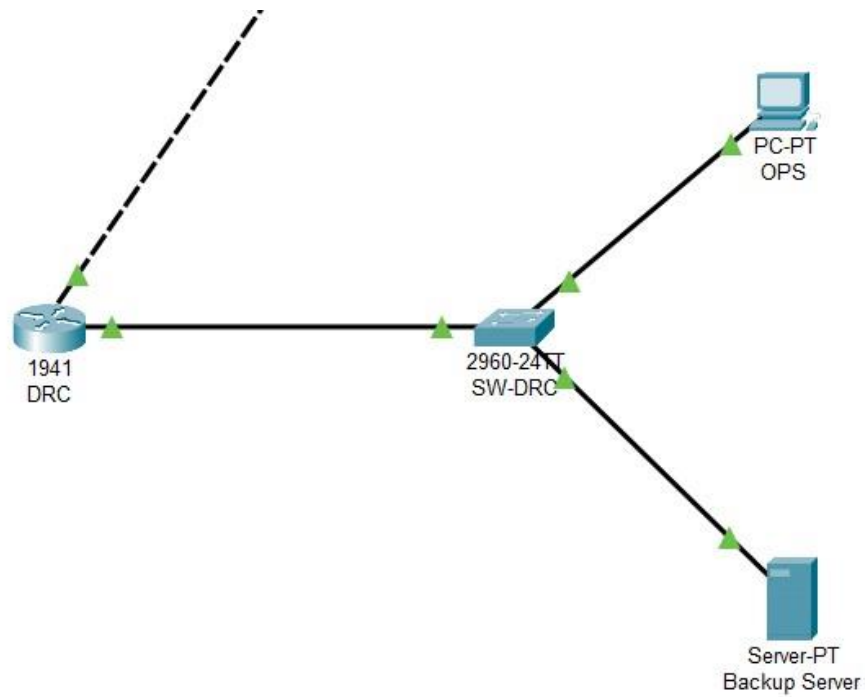
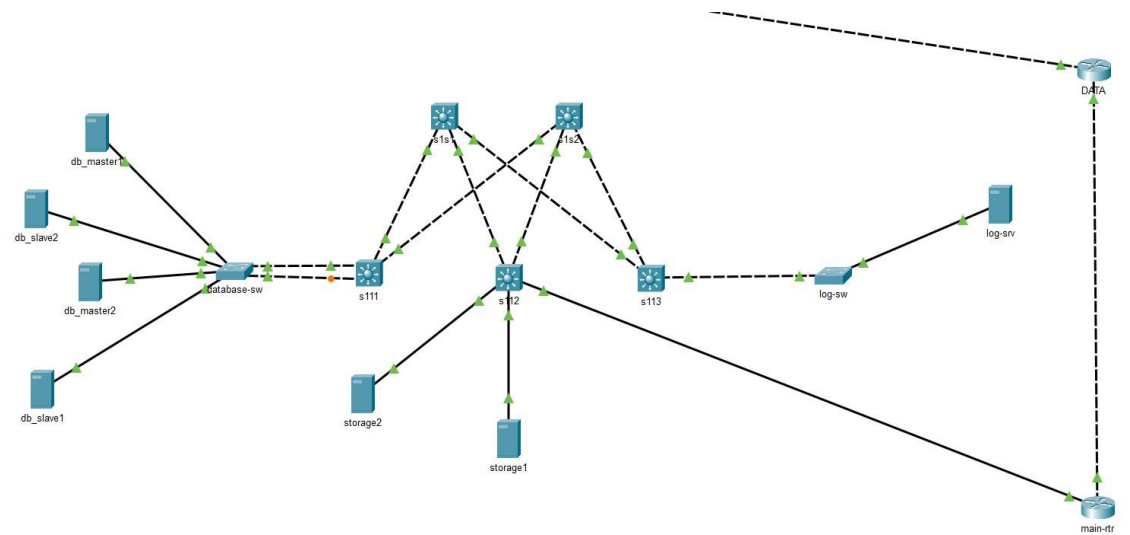# Network Diagram

• Core Network

• Office Cluster

• Production Cluster

PROD

SW-PROD1

SW-PROD3

PROD-SRV1

PROD-SRV2

• DRC Cluster

PC-PT
OPS

1941
DRC

2960-24TT
SW-DRC

Server-PT
Backup Server

• Data Cluster

TICKET TROUBLESHOOTING

#Ticket 1

- On DRC Cluster, Backup Server can't resolve domain www.itnsa.id for synchronize core apps. This is very dangerous, because NSA-ID just have one backup server. As a new network engineer please fix this issue.

#Ticket 2

- Report from Russel shows that productivity on OFFICE area is showing negative trend. One of the causes is connectivity between HQ and BRANCH not reachable. Fix the trouble and make sure that end devices on the site can ping each other.

#Ticket 3

- We have been trying to synchronize data from each server in the data cluster, but there's no connectivity. Please fix this as soon as possible because at the current time we have no "good backup" for data cluster.

#Ticket 4

- We have report form Office Cluster, they are can't communication to another cluster. As a new network engineer NSA-ID, please fix this issue.

#Ticket 5

- Report from Ops on DRC Cluster, he will access to the Production server (Prod-SRV1 and Prod-SRV2) via SSH for some reason. But when he tried it, he couldn't connect to the production cluster. Do you have any ideas to solve this problem?