lab2

↳ การลบ startup-config → router> enable
router# erase startup-config
<Enter>
router# reload
<no>
<Enter>
<no>
waiting for boot

↳ การเข้าสู่ interface ต่างๆ → router(config) # interface FastEthernet 01010
router(config-if)#

↳ การเปลี่ยน hostname → router(config)# hostname [name]
[name](config)#

↳ กำหนด console password → router(config)# line console 0
↳ ที่จะเข้าในconfig router(config-line)# password [pass]
router(config-line)# login
router(config-line)# exit

↳ การตั้ง vty สำหรับ telnet → router(config)# line vty [start] [end]
router(config-line)# password [pass]
router(config-line)# login
router(config-line)# exit

↳ กำหนดการ privilledge execute mode → router(config)# enable password [pass]
↳ การเข้า router# หรือ
router(config)# enable secret [pass]

↳ basic configuration for router → router(config)# interface [int] [port]
router(config-if)# ip address [ip] [subnet]
router(config-if)# clockrate 56000 # กรณี router-router ที่ต้องระบุ DTE, DCE
router(config-if)# no sh

↳ สร้าง loopback interface → router(config)# interface loopback [number]
router(config-if)# ip address [ip] [sub]

↳ static route → standard → router(config)# ip address [ip] [sub] [outgoing int, nexth]
→ default → router(config)# ip address 0.0.0.0 0.0.0.0 [outgoing int, next hop]
→ CIDR route summarization → ip ที่เหมือนกันตัวสุดท้าย เช่น 192.168.0.0/28
ที่เหมือน standard route
→ floating → router(config)# ip address [ip] [sub] [outgoing, nexth] [number]

↳ rip version 1 : → router (config)# router rip ถ้า 2 → version 2
version 2 router (config-router)# network [network] ! work with only cf

↳ passive-interface → router (config-router)# passive-interface [int] [port]

↳ redistribute protocol → defaut → router (config-router)# default-information originate
→ other protocol → router (config-router)# redistribute [static / connected / eigrp / metric / ospf / rip]

↳ ถ้าจะ no-autosummary → router (config-router)# no auto-summary ! ฉบ router

↳ access-list → std-99 → router (config)# access-list [1-99] [permit / deny] [source] [wc]
→ extend 100-199 → router (config)# access-list [100-199] [permit / deny] [protocol]
[source] [wc] [des] [wc] eq [<protocol> / port]
→ router (config-if)# ip access-group [num] [in / out]

↳ ospf → config → router (config)# router ospf [process-id]
router (config-router)# router-id [id]
router (config-router)# network [ip] [wc] area [area]
auto-cost reference-bandwidth [100, 1000, ...]

cost = ref bw(100M) / bw bps
10Gi → 10000 M
Gi = 1000 M
Fast = 100 M
Eth = 10 M
Serial = 1.544 M
128 k
64 k

router (config-if)# bandwidth [bw in kbps] ↖ no
router (config-if)# ip ospf cost [cost] ↙

show ip ospf [neighbor, database]
show ip ospf interface [int] [port]

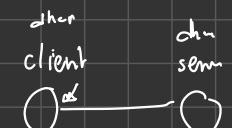
→ dhcp → router(config) #

router(config)# ip dhcp excluded-address [start ip] [end ip]
router(config)# ip dhcp pool [pool-name]
router(dhcp-config)# network [ip] [sub]
default-router [ip gateway]
dns-server [ip]
domain-name [~.~]

router(config)# no service dhcp

router(config)# int [ip] [port]
router(config-if)# ip helper-address [dhcp server]

router(config)# interface [ip] [p]
router(config-if)# ip address dhcp



switch (config)# int [int] [port]
switch (config-if)# switchport mode access
switchport port-security
switchport port-security mac-address [mac]
[<sticky>]
maximum [max]
switchport por-security violation [protect]
restrict
shutdown

→ ผ่าน verify ออกมา

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sw(config)# ip default-gateway [gateway]

router (config)# vlan [vlan]
router (config)# name [vlan]

sw (config)# int vlan [vlan]
(config-if)# ip addr [ip] [sub]
no sh

(co

router (config)# int <range> [int] [port-<port>]

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router (config-if)# switchport mode access
router (config-if)# switchport access vlan [vlan]

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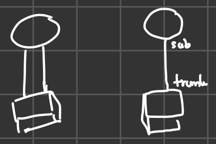
switchport mode trunk
switchport trunk native [vlan]
switchport trunk allowed vlan
[vlan, ...]

show vlan

intervlan → เชื่อมต่อหลาย vlan ผ่าน sub int

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router(config)# int [int] [port]
                 no shutdown
router(config-if)# int [int] [port].[sub int]
router(config-if)# encapsulation dot1q [vlan]
                   ip address [ip] [subnet]   ! vlan gateway

router(config)# vtp version 2
                vtp domain [name]
                vtp password [password]
                vtp mode [server / client / tran]

                vtp pruning    ! enable vtp
                int [int] [sub]
                switchport trunk pruning vlan remove [vlan]

router(config)#ip nat inside source static [pri] [pub]
router(config)# int [int] [port]
router(config-if)# ip nat [inside, outside] กำหนด 2 interface

router(config)# ip nat pool [name] [start-ip] [end-ip] netmask [mask]
                access-list [num (1-99)] permit [sourc ip] [wild card]
                ip nat inside source list [num] pool [name] <overload>
                ! set nat inside out side
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router(config)# access-list [num] permit [source] [wc]
ip nat inside source list [num] int [type] [port] overload
ip nat inside outside.

router(config)# eigrp [AD]
router(config-router)# eigrp router-id [ip]
router(config-router)# network [network] <wc>

router(config-if)# bandwidth [bw kbps]

show ip eigrp neighbor
ip eigrp topology