Configure the following network Using: A, Spanning tree protocol B, OSPF roung protocel C. Rive dynamic it address on the router Internet G130/1 E150/1 00:00:54:00:23: af 00:00:5e:00:23:04/2 1 Fa 0/1 00:00:56:00:23:af 00:00:50:00:3:4 Switch-3 Vlan 20 (192.168.20/20) (192-168.1.0/24 Vando Solution 3st create a blan on switch-o and switch-s Switch 0 > enable Switch 0# config terminal Switch o (contit) # name So SO (Confr) # int Man 20 So (Config. 7) exit So(confit)# in+ Vlan 20 So (Contil) # exit So (Confit) # intrange gig 0/1-2 So (Confis-IT-range) H Switch port mode trunk So (Config- it-range) Hexit So( const) # latefac/1 So(confir-TH) # Switch port mode access # Dage - S

SO(config-if) # Switch Port acess Vion to SO(config-if) # exit SO(config-if) # int fa 0/2 SO(config-if) # Switch Port Mode access SO(config-if) # Switch Port access Vion 20 SO(config-if) # do write SO(config-if) # do write

Shital > enable Sweith 1 # config-termine! SWITCH L (CONFIG) H name SI 51 ( Config Es) # int Vian to Si (Config-is) # exit SI (config) # int Vion 20 SI ( CONFIG-it) Haxit Si (config) # int tank gis 0/1-2 SI (config-if-rank) # Switch Port made trunk Si (confic -if - raise) # exit SI (Config) # int fao/1 SI (config-it) # swith port mode access 51 (config-it) # switch Port acceps Vion to SI (Config-it)# exit SI ( config) # int fo 0/2 SI (Config-it)# Switch Port mode access Ss ( config-ill# Swith Port access Vion 20 SI ( Config-it)# do Write SI ( worfig-if) # end

- 2nd Configure Virtual link and HSRP (hot Stand by routing protocorpon router o and vouter-s Router 0> enable Router of config-terminal Router o [contip] # name Ro

Ko (confir) # int gig 0/0 Ro (confirm)# ip address 109.20.9.1 217.217.217.217. Ro (confir-it) # exit

Ro (Confit) # in+ gig 0/1.10

Ro (confir subit) # encapsulation dots Q 10 Ro (Config-Subi7) # ip address 192. 168.1.1 211.211.211.0

Ru (confir-Subit) # Stand by 1 if 192, 168. 1.2

Ro (confor- Subit) # Stand by 1 priority 120

Ru (Config-Subit) # Stand by I Preempt

Ro (Confir Sub 7) H Stand by & track Gig 0/0

Ro ( Confr. Susi7) # exit

Ro( Confir # int 9190/1.20

Ro (Confit-Subit) # encapsulation dots & 20

Ro (Contif-Subst) # 17 address 182. 168.2.2 21T. 21T. 21T. 0

Ro (Confir-Subit) # Stand by 1 ip 182. 168.2.1

Ro (Confil-Susit) of Standard & preempt

Ro (Con 717-Subit) # exit

Ro (confr. Sustr) # do write.

Router & 7 enable RouterSff Confit term Router (Confr) H name Rs. Rs (Confreig) # ipaddress Jos. 20. 20. 10. 1 217. 217. 217. 212. Rs (conft) # int 9:80/0 RJ (Config-Tf) exit R& (confie)# int 9890 11. 10 2s (Confit-Subit) # encapsulation dots & to RS(Confi-Subit)# iPaddress 192. 168. 8.2 217.217.217.0 Rs (Con41-Subif) # Standby 1 if 192. 168.1.1 Rs (Config-Subit) # Stand by preempt PI (confd-Subit) Hexit

- 3rd Configure dhep on rousers and rousers by invoking Vlans Ro (contip) #ip elher pool Wando Ro (of the P-confit) # network 192.168.1.0 217, 217, 217, 0 Ru (dhep-contr) # default-router 182.168.4.1 Ro (dhep-conti) # exit. Ro (confr) # if dher tool Vlan 20 Ro (dhep- confip) # network 192. 168.2.0 21.21.21.21.0 Ru (dhep-Contre) # defautt-rowser 192, 168, 2,2 20 (dhep-contit)# exit Re (Confr) # 17 elher pour Vlan do Ps (ohop-confs) # network 192.168.1.0 211.211.211.0 RA (elher-Constt) # default-vouser 192, 168, 1,2. Rs (dhep-congr) Hexit RI (confit) of dhep pool Wan 20 Rs (dhep-confts) # network 182.168.2.0 217.217.217.0 R1 (dhep- contr) H default- nouser 192. 188, 2.1 24 ( dhep-confr) # exit.

V

- D Ath Configure OSPF on both router a and router 1. ROCCONAIR HYDLITER OSPI SO RO(Config-router) # net 108.20.9.0 0.0.0,3 area 0 Ru (Confis- router) # net 192. 163. 1.00.0.0.21T area o Ro(Confir-vouter) # net 182, 168, 2.0 0.0.0.217 area 0 20 (Confil-router) # do write Ro (Config-source) # do write. Rd (Confis) # router OSP# 20 Rs (Confor-nower) H net for. 20. 10.0.0.0.3 area 0 RI (Confre- nonter) # net 182. 168. 1.0 0.0.00 area o R& (Config-router) # net 182. 168.2.0 0.0.0.217 orea 0 Rs. (Confit- power) # do conte. R& (Confor- nouter) # exit -> 5th Constitute Spanning tree on both fourtch o and switch s So (confre) #Spanning-tree Ulan to root primary So (Contie) # Spanning-tree Wan 20 noot Secondary So (Config HSpanning-tree beduguard enable So (Confit) HSpanning-tree portfast So ( Confit ) # do write St ( Contre )#Spanning-tree Wan to not secondary So (Contre) Hend. St (Conto Atspannor, tree Wen 20 nort primary SS (Confir)#Spanning-tree bodusuard enable Ss (Confr) # Spanning-tree fort fast S& (Confr) # do write SI (Confit)# end 11 = 11 page - 5