Lab 9: IPv6

			245 0. 11 10			
1.	OSPFv3					
	a. gl	obal	conf			
		i.	ipv6 unicast-routing			
		ii.	ipv6 router ospf (process number)			
	i	ii.	router-id (ip address format x.x.x.x			
	b. in	b. interface conf				
		i.	ipv6 address (ipv6)			
		ii.	ip address (ipv4)			
	ii	ii.	ipv6 ospf (process number) area (number)			
	c. tro	ouble	eshoot			
		i.	sh ipv6 route ospf			
		ii.	sh ipv6 ospf neighbor			
2.	RIPng					
	a. gl	conf				
		i.	ipv6 unicast-routing			
	b. in	ce conf				
		i.	ipv6 address			
		ii.	ip address			
	i	ii.	ipv6 rip (name) enable			
c. troubleshoot						

3. Redistribute OSPFv3 and RIPng

sh ipv6 rip next-hops

i.

		i.	ipv6 router ospf (process number)					
			1.	redistribute rip (name)				
			2.	redistribute connected				
		ii.	ipv6 rc	ipv6 router rip (name)				
			1.	redistribute ospf (process number)				
			2.	redistribute connected				
4.	DHCP	v6						
	a. On DHCPv6 server							
		i. global conf						
			1.	ipv6 unicast-routing				
			2.	ipv6 dhcp pool (name)				
	a. prefix-delegation pool (name)							
				a. prefix-delegation pool (name)				
			3.	a. prefix-delegation pool (name) ipv6 local pool (created pool name) (ip subnet)				
			3.	· · · · · · · · · · · · · · · · · · ·				
		ii.		ipv6 local pool (created pool name) (ip subnet)				
		ii.	interfa	ipv6 local pool (created pool name) (ip subnet) (prefix to be assigned to interfaces)				
		ii.	interfa 1.	ipv6 local pool (created pool name) (ip subnet) (prefix to be assigned to interfaces) ce conf				
	b.		interfa 1.	ipv6 local pool (created pool name) (ip subnet) (prefix to be assigned to interfaces) ce conf ipv6 address ipv6 dhcp server (pool name)				
	b.		interfa 1. 2. HCPv6 o	ipv6 local pool (created pool name) (ip subnet) (prefix to be assigned to interfaces) ce conf ipv6 address ipv6 dhcp server (pool name)				
	b.	On Dł	interfa 1. 2. HCPv6 d interfa	ipv6 local pool (created pool name) (ip subnet) (prefix to be assigned to interfaces) ce conf ipv6 address ipv6 dhcp server (pool name)				
	b.	On Dł	interfa 1. 2. HCPv6 o interfa 1.	ipv6 local pool (created pool name) (ip subnet) (prefix to be assigned to interfaces) ce conf ipv6 address ipv6 dhcp server (pool name) client ce conf on interface facing server				

interface conf on interface where ip address should be assigned

a. global conf

ii.

		1.	ipv6 a	ddress	_ (client pd name) _	(host address)					
	iii. troubleshoot										
	1. sh ipv6 interface										
2. sh ipv6 dhcp binding (on server)											
		3.	sh ipv	6 general-p	refix (on dhcp client)					
ISATAP tunneling											
a. assign ipv4 address to interfaces on r1, r2, r3, r4											
b.	b. configure ripv2										
	i. global conf										
1. router rip											
			a.	version 2							
			b.	network _							
c. configure isatap tunnel											
	i.	global	conf								
		1.	interfa	ice tunnel _	(number)						
a. tunnel mode ipv6ip isatap											
			b.	ipv6 addre	ess (/64 netwo	rk) eui-64					
			C.	tunnel sou	ırce (interface)						
			d.	ipv6 ospf_	(process)	(area)					
			e.	ipv6 ospf ı	network non-broadca	ast					
			f.	ipv6 ospf ı	neighbor (link l	ocal address)					
			g.	no ipv6 no	l ra suppress						

5.