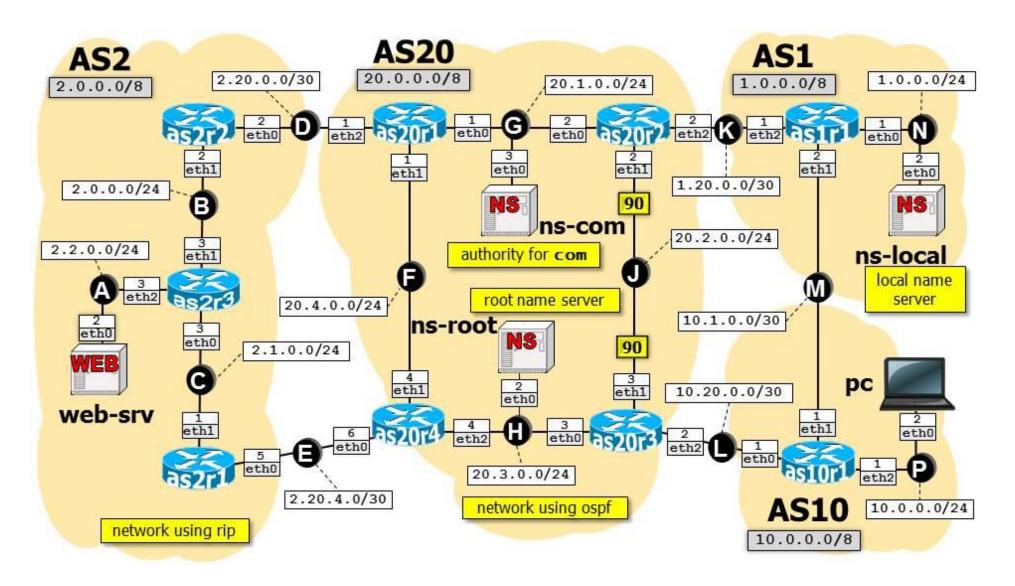


## Available time: 120 minutes.



Using Netkit, implement the network depicted in the figure and described below.			
	Remember to set up a default route on all the end systems.		
	Routing within AS2 is implemented by using RIP.		
	0	as2r2 injects in RIP all the routes learned via BGP.	
	Routing within AS20 is implemented by using OSPF.		
		All the interfaces belong to area 0.0.0.0.	
	0	Border routers inject BGP-learned routes into OSPF (do not worry about redistributing eBGP only: OSPF will automatically take care of this).	
	0	Some interfaces are assigned the OSPF costs specified in the picture. All the other interfaces have the default cost.	
	Inter-d	omain routing is implemented by using BGP, which is set up as follows:	
		AS1, AS2, AS10 and AS20 also announce their own internal subnets, in gray.	
	0	All peering LANs are announced in BGP. No routers announce the default route 0.0.0.0/0.	
	0	Border routers in AS20 establish iBGP peerings with each other. Pick the IP addresses of network	
		interfaces consistently with OSPF routing in order to establish such peerings.	
		AS2 <u>prefers</u> announcements received from link D, instead of those received from link E.	
	0	AS2 announces to AS20 its own routes in such a way that AS20 prefers announcements received from	
		link E, instead of those received from link D.	
_		as 10r1 prefers announcements received from AS1 instead of those sent by AS20.	
		S is available on the network, set up as follows:	
		ns-local is the local name server for pc.	
	_	ns-root is the root name server.	
		ns-com is the authority for zone com.	
_		The only relevant DNS name is web.com, which is associated with IP address 2.2.0.2.	
		Srv is a Web server running apache, which serves a private web page for the "guest" user, accessible by	
1	using t	he URL http://web.com/~guest/.	
Goals:	ID r	outing must comply with the above requirements. In particular:	
Guais.		ckets from pc to 2.2.0.2 must traverse links P, M, K, G, F, E, C, A;	
		ckets from 2.2.0.2 to pc must traverse link A, B, D, F, H, L, P.	
		nust be possible to access the Web page http://web.com/~guest/ from pc.	
	10 11	table of possible to access the free page freeping free reduing guester from per	