1 Cent Questi ons	5 Cent Questi ons	10 Cent Questi ons	25 Cent Questi ons	50 Cent Questi ons	1 Dollar Questi ons	2 Dollar Questi ons	5 Dollar Questi ons	10 Dollar Questi ons	Crazy Questi ons
100	100	100	100	100	100	100	100	100	100
1.	Α	What	What	What	Which	What	What	What	An
What	networ	is the	term is	are	port	best	are	are	EIGRP
is the	k	functio	used	two	role is	describ	two	two	router
term	design	n of	to	require	assign	es the	reason	load-	loses
that is	er is	STP in	expres	ments	ed to	operati	s to	balanci	the
used	consid	а	s the	when	the	on of	install	ng	route
for the	ering	scalabl	thickne	using	switch	distanc	а	metho	to a
area of	whethe	е	ss or	out-of-	port	е	single	ds in	networ
a	r to	networ	height	band	that	vector	48-	the	k. Its
networ	imple	k?	of a	configu	has	routing	port	EtherC	topolo
k that	ment a		switch	ration	the	protoc	fixed	hannel	gy
is	switch	. It	?	of a	lowest	ols?	configu	technol	table
affecte	block	decrea		Cisco	cost to		ration	ogy?	contain
d when	on the	ses the	rack	IOS	reach	They	switch,	(Choos	s two
a	compa	size of	unit	networ	the	use	rather	e two.)	feasibl
device	ny	the	nort	k	root	hop	than		е
or	networ	failure	port	device	bridge	count	two	combin	succes
networ	k.	domai	density	?	?	as	24-	ation	sors to
k	What	n to	domai	(Choos		their	port	of	the
service	is the	contain	n size	e two.)	root	only	fixed	source	same
experi	primar	the	0.20		port	metric.	configu	port	networ
ences	У	impact	modul	HTTP	non	Thou	ration	and IP	k.
proble	advant	of	e size	access	non-	They	switch	to	What
ms?	age of	failures		to the	design	only	es, in	destina	action
	deployi		rack	device	ated	send	а	tion	will the
failure	ng a	T↓	unit	-	port	out	wiring	port	router
domai	switch	It		a	design	update	closet	and IP	take?
n	block?	protect		termin	ated	s when	that	0011800	
collisio	_	s the		al	port	a new	suppor	source	The
	Α	edge		emulat	porc	networ k is	ts two	IP to	DUAL
n domai	single	of the		ion	disable		classro	destina	algorit
domai	core	enterp		client	d port	added.	oms?	tion IP	hm is
n	router	rise		Telnet		They	(Choos	source	recom
broadc	provid	networ		or SSH	root	send	e two.)	port to	puted
ast	es all	k from		access	port	their	-	destina	to find
domai	the	malicio		to the	•	routing	more	tion	an
n	routing	US		device		tables	power	port	alterna
''	betwee	activity		GEVICE		to	provid	ροιτ	te
user	n	•		а		directl	ed to	combin	route.
domai	VLANs.			direct		a.i cca	each	ation	

n	The	It	connec	У	port	of	The
	failure	disable	tion to	connec		source	router
failure	of a	S	the	ted	more	MAC	uses
domai	switch	redund	consol	neighb	ports	and IP	the
n	block	ant	e or	ors.	availab	to	default
	will not	paths	AUX		le for	destina	route.
	impact	to	port	They	end	tion	
	all end	elimina		flood	device	MAC	The
	users.	te	а	the	S	and IP	best
	T I · ·	Layer	connec	entire	higher		alterna
	This is	2	tion to	networ	uplink	source	tive
	a .,	loops.	an	k with	speeds	MAC to	backup
	securit	74	operati	routing	эрссиз	destina	route
	у	It	onal	update	reduce	tion	is
	feature	combin	networ	S.	d	MAC	immed
	that is	es	k interfa	Thou	power	COLIFCO	iately inserte
	availab le on	multipl e		They send	and	source IP to	d into
	all new	switch	ce on the	their	space	destina	the
	Catalys	trunk	device	routing	require	tion IP	routing
	t	links to	ucvicc	tables	ments	CIOII II	table.
	switch	act as	a	to	,	source	tabic.
	es.	one	termin	directl	reduce	MAC to	The
	30.	logical	al	у	d	destina	router
	This is	link for	emulat	connec	numbe r of	tion	will
	networ	increas	ion	ted	VLANs/	MAC	query
	k	ed	client	neighb	broadc		neighb
	applica	bandwi		ors.	ast		ors for
	tion	dth.	a		domai		an
	softwa		direct		ns		alterna
	re that	It	connec		110		te
	preven	disable	tion to		more		route.
	ts the	S	the		ports		— 1
	failure	redund	consol		availab		The
	of a	ant	e or		le for		best
	single	paths	AUX		end		alterna
	networ	to	port		device		tive
	k	elimina			S		backup
	device.	te			_		route is
	The	Layer			reduce		immed
	failure	2			d		iately
	of a	loops.			power		inserte
	switch				and		d into
	block				space		the
	will not				require		routing
					ments		

	impact								table.
	all end								
	users.								
200	200	200	200	200	200	200	200	200	200
Which	What	Α	What	What	Which	Which	hat are	Which	Α
configu	are	networ	is the	elimina	spanni	statem	two	mode	networ
ration	three	k	purpos	tes	ng tree	ent	require	configu	k
change	charac	admini	e of	switchi	standa	defines	ments	ration	engine
s will	teristic	strator	the	ng	rd was	the	when	setting	er
increm	s of	is	vlan.da	loops?	develo	speed	using	would	examin
ent the	VTP?	plannin	t file		ped by	of	out-of-	allow	ing the
configu	(Choos	g to	on a	hold-	Cisco	conver	band	formati	operati
ration	е	add a	switch	down	to	gence	configu	on of	on of
revisio	three.)	new	?	timers	provid	of	ration	an	EIGRP
n	T 11	switch	T.	poison	е	routing	of a	EtherC	on a
numbe	In the	to the	It	revers	separa	protoc	Cisco	hannel	router
r on	default	networ	holds	e	te	ols?	IOS	link	notices
the	VTP	k.	the	-	instanc	 -1	networ	betwee	that
VTP	mode,	What	runnin	Spanni	es of	The	k	n	one
server	VLANs	should	g	ng	802.1	time it	device	switch	particu
?	can be	the	configu	Tree	w per	takes a	?	es	lar
c.	create	networ	ration.	Protoc	VLAN?	router	(Choos	SW1	route
configu	d and	k	It	ol	D. C.T.D.	to	e two.)	and	is in an
ring	modifi	admini	holds		RSTP	form a	LITTO	SW2	active
trunk	ed on	strator	the	Time	802.1D	neighb	HTTP	withou	state.
links	a	do to	saved	to Live	002.10	or	access	t	What
on the	switch. *	ensure	configu		MSTP	adjace	to the	sendin	can
VTP	~	the	ration.	VTP		ncy.	device	g	the
server	Switch	new	Tation.		Rapid	The	а	negoti	engine
configu	es in	switch	It	Spanni	PVST+	time it	termin	ation	er
ring or	VTP	exchan	holds	ng —		takes a	al	traffic?	determ
changi	server	ges	the	Tree	Rapid	router	emulat	C)A/1	ine
ng the	mode	VTP	VLAN	Protoc	PVST+	to	ion	SW1:	about
VTP	store	inform	databa	ol		learn	client	on	this
passwo	VLANs	ation	se.			about	Circiic	SW2:	route?
rd	in the	with				directl	Telnet	on	Data
10	vlan.da	the	It			у	or SSH	SW1:	Data
configu	t	other	holds			connec	access	desirab	packet
ring or	databa	switch	the			ted	to the	le	s to be
changi	se.*	es in	operati			links	device	SW2:	sent to
ng the		the	ng					desirab	the
VTP	VTP-	VTP .	system			The	a	le	specifi
domai	enable	domai				time it	direct		ed
n	d	n?				takes a	connec	SW1:	networ
name	switch	Config				router	tion to	auto	k will be
	es	Coming				to	the	SW2:	De

configu	exchan	ure the		
ring or	ge	correct	It	
changi	three	VTP	holds	
ng the	types	domai	the	
VTP	of	n	VLAN	
version	adverti		databa	
		name	se.	
numbe	semen	and		
r	ts:	passwo		
configu	summ	rd on		
configu	ary	the		
ring or	routes,	new		
deletin	subnet	switch.		
g a	adverti			
VLAN	semen	Associ		
or	ts, and	ate all		
creatin	adverti	ports		
g a	semen	of the		
VLAN	t	new		
name	reques	switch		
	ts from	to a		
configu	transp	VLAN		
ring or	arent	that is		
deletin		not		
g a	bridges	VLAN		
VLAN	•	1.		
or	The	Ι.		
creatin	switch	Config		
		ure the		
g a	configu	VLANs		
VLAN	ration	on the		
name	must	new		
	be			
	saved	switch.		
	and	Config		
	the	ure all		
	switch			
	reload	ports		
	ed to	on the		
	reset a	new		
	configu	switch		
	ration	to		
	revisio	access		
	n	mode.		
	numbe			
		Config		
	r.	ure the		
		uic tiic		
	VTP	correct		

calcula te the cost of a link. The time it takes a router within a networ d routing inform ation. The time it takes a router within a networ k to forwar d routing inform ation.	consol e or AUX port a connec tion to an operati onal networ k interfa ce on the device a termin al emulat ion client a direct connec tion to the consol e or AUX port	auto trunkin g enable d on both switch es SW1: auto PortFa st enable d on both switch es SW1: passiv e SW2: active SW2: active SW1: on SW2: on	forwar ded on this route. EIGRP query messa ges are being sent to other routers reques ting paths to this networ k. The Diffusi ng Update Algorit hm has determ ined a succes sor and a feasible succes
routing inform	the consol e or AUX	SW2:	ined a succes sor and a feasibl

	update s are exchan ged across trunk links only. In the default VTP mode, VLANs can be create d and modified on a switch. Switch es in VTP server mode vLANs in the vlan.da t databa se. VTP update s are exchan ged across trunk links only are exchanged across trunk links on	domai n name and passwo rd on the new switch.							the admini strativ e distanc e for this route. EIGRP query messa ges are being sent to other routers reques ting paths to this networ k.
300 A small	300 . What	300 Which	300 A	300 As the	300 Which	300 What	300 Which	300 Which	300 How
compa	is the	three	networ	networ	industr	wnat is	step	two	are
Compa	13 1116	un GE	TICCVVOI	TICCVVOI	เกนนอน	13	Jich	.,,,	ui C

ny	value	STP	k	k	y-wide	associa	can be	param	extern
networ	used	states	admini	admini	specific	ted	taken	eters	ally
k has	to	were	strator	strator	ation	with	to	must	learne
six	determ	replace	enters	you	was	link-	ensure	match	d
interco	ine	d with	the	have	develo	state	that a	on the	EIGRP
nnecte	which	the	spanni	been	ped to	routing	switch	ports	routes
d	port on	RSTP	ng-	asked	decrea	protoc	added	of two	identifi
Layer	a non-	discard	tree	to	se the	ols?	to the	switch	ed in
2	root	ing	portfas	imple	time		networ	es to	the
switch	bridge	state?	t	ment	that is	low	k does	create	routing
es.	will	(Choos	bpdug	EtherC	needed	proces	not	a PAgP	table?
Curren	becom	e	uard	hannel	to	sor	overwr	EtherC	
tly all	e a	three.)	default	on the	move	overhe	ite the	hannel	EX
switch	root		comma	corpor	to the	ad	VLAN	betwee	04.5
es are	port in	listenin	nd.	ate	forwar		databa	n the	O1 E
using	a STP	g	What	networ	ding	poison	ses on	switch	D
the	networ	l	is the	k.	state	revers	existin	es?	D
default	k?	learnin	result	What	by	е	g	(Choos	*
bridge		g	of this	does	switch	routing	switch	e two.)	
priority	the	blockin	comma	this	ports	loops	es in	,	EX
value.	highest		nd	configu	that	100ps	the	MAC	
Which	MAC	g	being	ration	are	split	same	addres	
value	addres	disable	issued	consist	operati	horizo	VTP	S	
can be	s of all	d	on a	of?	ng in a	n	domai		
used	the	-	Cisco		redund		n?	speed	
to	ports	forwar	switch	providi	antly	Shorte		VLAN	
configu	in the	ding	?	ng	switch	st Path	Chang	inform	
re the	switch			redund	ed	First	e the		
bridge		lictonin				• •		ation	
priority	the	listenin	Any	ant		calcula	VTP	ation	
		g	Any switch	ant Iinks	topolo				
of one	lowest	g	switch port		topolo gy?	calcula	VTP	PAgP	
of one of the	lowest MAC	g blockin	switch	links	topolo	calcula	VTP mode		
	lowest MAC addres	g	switch port will be error-	links that dynam ically	topolo gy? VLSM	calcula tions	VTP mode to client.	PAgP	
of the	lowest MAC addres s of all	g blockin g	switch port will be error- disable	links that dynam	topolo gy?	calcula tions Shorte	VTP mode to client. Reset	PAgP mode	
of the switch	lowest MAC addres s of all the	g blockin g disable	switch port will be error-	links that dynam ically	topolo gy? VLSM PVST	calcula tions Shorte st Path	VTP mode to client. Reset the	PAgP mode	
of the switch es to	lowest MAC addres s of all the ports	g blockin g	switch port will be error- disable	links that dynam ically block	topolo gy? VLSM PVST 802.1	calcula tions Shorte st Path First	VTP mode to client. Reset the switch	PAgP mode port ID speed	
of the switch es to ensure	lowest MAC addres s of all the ports in the	g blockin g disable	switch port will be error- disable d if it receive s a	links that dynam ically block or forwar d	topolo gy? VLSM PVST	calcula tions Shorte st Path First calcula	VTP mode to client. Reset the switch VTP	PAgP mode port ID speed VLAN	
of the switch es to ensure that it	lowest MAC addres s of all the ports	g blockin g disable	switch port will be error- disable d if it receive	links that dynam ically block or forwar	topolo gy? VLSM PVST 802.1 Q	calcula tions Shorte st Path First calcula	VTP mode to client. Reset the switch VTP revisio	PAgP mode port ID speed VLAN inform	
of the switch es to ensure that it becom	lowest MAC addres s of all the ports in the switch	g blockin g disable	switch port will be error- disable d if it receive s a BPDU.	links that dynam ically block or forwar d traffic	topolo gy? VLSM PVST 802.1	calcula tions Shorte st Path First calcula	VTP mode to client. Reset the switch VTP revisio n	PAgP mode port ID speed VLAN	
of the switch es to ensure that it becom es the	lowest MAC addres s of all the ports in the switch	g blockin g disable	switch port will be error- disable d if it receive s a BPDU. Any	links that dynam ically block or forwar d traffic	topolo gy? VLSM PVST 802.1 Q	calcula tions Shorte st Path First calcula	VTP mode to client. Reset the switch VTP revisio n numbe	PAgP mode port ID speed VLAN inform	
of the switch es to ensure that it becom es the root	lowest MAC addres s of all the ports in the switch the VTP	g blockin g disable	switch port will be error- disable d if it receive s a BPDU. Any trunk	links that dynam ically block or forwar d traffic groupi ng	topolo gy? VLSM PVST 802.1 Q RSTP	calcula tions Shorte st Path First calcula	VTP mode to client. Reset the switch VTP revisio n	PAgP mode port ID speed VLAN inform	
of the switch es to ensure that it becom es the root bridge	lowest MAC addres s of all the ports in the switch the VTP revisio	g blockin g disable	switch port will be error- disable d if it receive s a BPDU. Any trunk ports	links that dynam ically block or forwar d traffic groupi ng multipl	topolo gy? VLSM PVST 802.1 Q RSTP	calcula tions Shorte st Path First calcula	VTP mode to client. Reset the switch VTP revisio n numbe r to 0.	PAgP mode port ID speed VLAN inform	
of the switch es to ensure that it becom es the root bridge in this	lowest MAC addres s of all the ports in the switch the VTP revisio n	g blockin g disable	switch port will be error- disable d if it receive s a BPDU. Any trunk ports will be	links that dynam ically block or forwar d traffic groupi ng multipl e	topolo gy? VLSM PVST 802.1 Q RSTP VTP	calcula tions Shorte st Path First calcula	VTP mode to client. Reset the switch VTP revisio n numbe r to 0. Delete	PAgP mode port ID speed VLAN inform	
of the switch es to ensure that it becomes the root bridge in this design?	lowest MAC addres s of all the ports in the switch the VTP revisio n numbe	g blockin g disable	switch port will be error- disable d if it receive s a BPDU. Any trunk ports will be allowe	links that dynam ically block or forwar d traffic groupi ng multipl e physic	topolo gy? VLSM PVST 802.1 Q RSTP VTP	calcula tions Shorte st Path First calcula	VTP mode to client. Reset the switch VTP revisio n numbe r to 0. Delete any	PAgP mode port ID speed VLAN inform	
of the switch es to ensure that it becom es the root bridge in this design	lowest MAC addres s of all the ports in the switch the VTP revisio n	g blockin g disable	switch port will be error- disable d if it receive s a BPDU. Any trunk ports will be allowe d to	links that dynam ically block or forwar d traffic groupi ng multipl e physic al	topolo gy? VLSM PVST 802.1 Q RSTP VTP	calcula tions Shorte st Path First calcula	VTP mode to client. Reset the switch VTP revisio n numbe r to 0. Delete any configu	PAgP mode port ID speed VLAN inform	
of the switch es to ensure that it becomes the root bridge in this design?	lowest MAC addres s of all the ports in the switch the VTP revisio n numbe	g blockin g disable	switch port will be error- disable d if it receive s a BPDU. Any trunk ports will be allowe	links that dynam ically block or forwar d traffic groupi ng multipl e physic	topolo gy? VLSM PVST 802.1 Q RSTP VTP	calcula tions Shorte st Path First calcula	VTP mode to client. Reset the switch VTP revisio n numbe r to 0. Delete any	PAgP mode port ID speed VLAN inform	

32768	path	t to	to	and	
	cost	the	increas	reboot	
34816		networ	е	the	
61440	the	k	bandwi	switch.	
01440	path	immed	dth		
20672	cost	iately,	betwee	Erase	
28672		rather	n two	the	
		than	switch	startup	
		waiting	es	configu	
		to		ration	
		conver	groupi	and	
		ge.	ng two	reboot	
			device	the	
		Any	s to	switch.	
		switch	share		
		port	a	Reset	
		that	virtual	the	
		has	IP	switch	
		been	addres	VTP	
		configu	S	revisio	
		red	providi	n	
		with	ng	numbe	
		PortFa	redund	r to 0.	
		st will	ant		
		be	device		
		error-	s to		
		disable	allow		
		d if it	traffic		
		receive	to flow		
		s a	in the		
		BPDU.	event		
		Any	of		
		switch	device		
		port	failure		
		that			
		receive	groupi		
		s a	ng		
		BPDU	multipl		
		will	е		
		ignore	physic		
		the	al		
		BPDU	ports		
		messa	to		
		ge.	increas		
			е		

			Any switch port that has been configu red with PortFa st will be errordisable d if it receive	bandwi dth betwee n two switch es					
400	400	400	400	400	400	400	400	400	400
Which	Α	hen	BP Ð U.	What	An STP	What	Α	Α	Α
comma	networ	EtherC	networ	is the	instanc	does	networ	networ	networ
nd will	k	hannel	k	term	e has	the	k	k	k
start	admini	is	admini	used	failed	SPF	admini	admini	admini
the	strator	configu	strator	to	and	algorit	strator	strator	strator
proces	configu	red,	is	describ	frames	hm	is	is	is
s to	red an	which	analyzi	e a	are	consid	plannin	analyzi	configu
bundle	EtherC	mode	ng the	networ	floodin	er to	g to	ng	ring
two	hannel	will	feature	k .	g the	be the	add a	first-	EIGRP
physic	link	force	s that	topolo	networ	best	new	hop	load
al	with	an	are	gy	k.	path to	switch	router	balanci
interfa	three	interfa · ·	suppor	where	What	a	to the	redund	ng
ces to	interfa	ce into	ted by	the	action	networ	networ	ancy	with
create	ces	a port	differe	subnet	should	k?	k.	protoc	the
an EtherC	betwee	channe	nt first-	s from	be	The	What should	ols. What	comma
hannel	n two switch	withou	hop	a major	taken by the	path	the	is a	nds:
group	es.	t	router	classfu	networ	with	networ	charac	Router
via	What	exchan	redund	l	k	the	k	teristic	(config
LACP?	is the	ging	ancy	networ	admini	least	admini	of)#
	result	aggreg	protoc	k	strator	numbe	strator	VRRPv	router
channe	if one	ation	ols.	addres	?	r of	do to	3?	eigrp 1
I-group	of the	protoc	Which	S		hops.	ensure	<u>.</u>	Router
2	three	ol	statem	space	Α	_ .	the	VRRPv	(config
mode	interfa	packet	ent	are	respon	The	new	3 is	-
auto	ces is	s?	describ	separa	se	path	switch	Cisco	router)
:	down?		es a	ted	from	with	exchan	proprie	#
interfa ce	The	active	feature that is	from each	the networ	the smalle	ges VTP	tary.	varianc e 3

port-	EtherC	auto	associa	other	k	st	inform	It	Router
channe	hannel		ted	by	admini	delays.	ation	suppor	(config
12	fails.	on	with	addres	strator		with	ts IPv6	-
		docirah	HSRP?	ses	is not	The	the	and	router)
channe	The	desirab		from a	require	path	other	IPv4	# end
l-group	remain	le	HSRP	differe	d	that	switch	addres	
1	ing	00	uses	nt	becaus	include	es in	sing.	What
mode	two	on	active	major	e the	s the	the		is a
desirab	interfa		and	classfu	TTL	fastest	VTP	It	direct
le	ces		standb		field	cumula	domai	works	result
intorfo	contin		У	networ	will	tive	n?	togeth	of
interfa	ue to		routers	k	eventu	bandwi		er with	enterin
ce	load		•	addres	ally	dth	Config	HSRP.	g
range Gigabit	balanc		It uses	s?	stop	links.	ure the	It	these
Ethern	e		ICMP	1	the	The	correct	allows	comma
et 0/4	traffic.			multih	frames		VTP	load	nds?
- 5	The		messa	omed	from	path that	domai	balanci	lln to
	remain		ges in order	networ	floodin	include	n		Up to three
interfa			to	k	g the	s the	name	ng betwee	
ce	ing two		assign	conver	networ	fastest	and	n	equal cost
	interfa		the	ged	k.	single	passwo	routers	routes
range Gigabit	ces		default	networ		bandwi	rd on	Touters	to the
Ethern	becom		gatewa	k	Spanni	dth	the	•	same
et 0/4	e		y to	K	ng tree	link.	new	It	destina
- 5	separa		hosts.	discont	should	1111K.	switch.	suppor	tion
	te links		110363.	iguous	be	The	Associ	ts IPv6	can be
	betwee		It	networ	disable	path	ate all	and	installe
	n the		allows	k	d for	that	ports	IPv4	d in
	two		load		that	include	of the	addres	the
	switch		balanci	data	STP	s the	new	sing.	routing
	es.		ng	networ	instanc	fastest	switch	Sirig.	table.
	00.		betwee	k	e until	cumula	to a		casic:
	One		n a		the proble	tive	VLAN		Up to
	interfa		group	discont	m is	bandwi	that is		three
	ce		of	iguous	located	dth	not		unequ
	becom		redund	networ	located	links.	VLAN		al cost
	es an		ant	k	•		1.		routes
	active		routers		Broadc				to the
	link for				ast		Config		same
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	traffic		HSRP		should		VLANs		tion
	and		is		be		on the		can be
	the		nonpro		investi		new		installe
	other		prietar		gated		switch.		d in
	becom		у.		and		C		the
	es a						Config		routing

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backup	HSRP	elimina	ure all	table.
link.	uses	ted	ports	
	active	from	on the	No
The	active	the	new	matter
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ing	standb	k.	to	r the
two	У		access	metric
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ces	•	dant		equal
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ue to		should	ure the	unequ
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balanc		physic	VTP	to
е		ally	domai	three
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		ed	name	to the
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				times
				that of
1 1	I I	I I	ı l	1 1

									the succes sor, will be installe d in the routing table. Any feasible e succes sor routes to the same destina tion network with a metric, equal to or less than 3 times that of the succes sor, will be installe d in the routing
500	500	500	500	500	500	500	500	500	t sble .
What type of	What does	hich three	What indicat	What are	What are	Which two	An admini	What is a	By default
packet	the	pieces	es to a	three	two	pieces	strator	key	, how
s are	SPF	of	link-	feature	advant	of	was	distinct	many
sent	algorit	inform	state	s of	ages of	inform	trouble	ion	equal
when	hm	ation	router	EIGRP?	EtherC	ation	shootin	betwee	cost
there	consid	does a	that a	(Choos	hannel	are	g a	n	routes
	1 555.4		J. 14 C G	\ 5555		۵. ۵	. 🤊 ∽	• • •	. 5 4 5 5 5

is a	a	er to	link-	neighb	е	?	contain	router-	classfu	to the	
chan	ige	be the	state	or is	three.)	(Choos	ed	on-	I and	same	
in th	_	best	routing	unreac	,	e two.)	within	a-stick	classle	destina	
EIGI		path to	protoc	hable?	uses	,	a link-	topolo	SS	tion	
topo		а	ol use		the	Config	state	gy and	routing	can be	
gy		networ	initially	if the	Shorte	uring	packet	conclu	protoc	installe	
97	•	k?	as	router	st Path	the	(LSP)?	ded	ols?	d in	
hell	lo	Ιζ.	link-	no	First	EtherC	(Choos	that	015.	the	
		The	state	longer	algorit	hannel	e two.)	the	Classfu	routing	
trigg	jer	path	inform	receive	hm	interfa	e two.)	proble	I	table	
ed	1	with	ation	S		ce	hop	m was	routing	of a	
boui	nd	the		routing	establi	provid	count		protoc		
ed	ı	least	for	update	shes	es	Courte	related	ols are	Cisco	
upda	ate	numbe	locally	S	neighb	consist	bandwi	to the	better	router?	
•		r of	connec	5	or	ency in	dth	configu	suited	2	
ackr	no	hops.	ted	if the	adjace	the		ration	for	_	
wled	lge	nops.	links?	router	ncies	configu	link	of	imple	4	
		The	(Choos	no		_	type	VLANs	•		
rep	ly	path	e	longer	uses	ration		on the	mentat	16	
		with	three.)	receive	the	of the	delay	router	ion in		
trigg	jer	the		s hello	Reliabl	physic		subinte	discont	32	
ed	1	smalle	the	packet	е	al	load	rfaces.	iguous		
boui	nd	st	link	packet S	Transp	links.		Which	networ	4	
ed	1		router	5	ort	Load	bandwi	two	ks.		
upda	ate	delays.	interfa	if the	Protoc		dth	comma	Classfu		
'		The	ce IP	router	ol	balanci		nds	Classfu		
		path	addres	receive	Oi	ng	link	can	l 		
		that	s and	s an	sends	occurs	type	the	routing		
			subnet		full	betwee		admini	protoc		
		include s the	mask	update with a	routing	n links		strator	ols do		
		fastest		hop	table	configu		use in	not .		
			the	•	update	red as		the	send		
		cumula	type of	count	S	differe		router	subnet		
		tive	networ	of 16	periodi	nt		to	mask		
		bandwi	k link	if the	cally	EtherC		identif	inform		
		dth		router	carry	hannel		y the	ation		
		links.	the	receive	broadc	s.		proble	in their		
		The	link	s an	asts	F.1 6		m?	routing		
			next-	LSP	update	EtherC		(Choos	update		
		path	hop IP		s to all	hannel		e two.)	s.		
		that	addres	with	EIGRP	uses		e two.)			
		include	S	previo	routers	upgrad		show	Classle		
		s the	عالم	usly	Touters	ed		control	SS		
		fastest	the	learne	suppor	physic		lers	routing		
		single	link	d	ts	al links		1015	protoc		
		bandwi	bandwi	inform	equal	to		show	ols are		
		dth	dth	ation	and	provid		ip	not		
		link.				е		'	scalabl		

The path that include s the fastest cumula tive bandwi dth links.	the cost of that link the link router interfa ce IP address sand subnet mask the type of network link the cost of that link	if the router no longer receive s hello packet s	unequal cost load balanci ng establi shes neighb or adjace ncies uses the Reliabl e Transp ort suppor ts equal unequal cost load balanci ng	increas ed bandwi dth. Spanni Tree Protoc ol views the physic al links in an EtherC hannel as one logical connec tion. Spanni Tree Protoc ol ensure s redund ancy by transiti oning failed interfa ces in EtherC hannel to a forwar ding state.		show ip protoc ols show runnin g-config show vlan show ip interfa ce show runnin g-config	e. Classle ss routing protoc ols do not allow for route summ arizati on. Classfu routing protoc ols do not send subnet mask inform ation in their routing update s.
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					Configuring the EtherC hannel interface provides consistency in the configuration of the physical links. Spanning Tree Protocol views the physical links in an Chapter Configuration of the physica				
					in an EtherC hannel as one logical				
					connec tion.				
600	600	600	600	600	600	600	600	600	600
What capabil	When are	Which statem	Which two	An EIGRP	When EtherC	What is a	Refer to the	What does	When should
ity do	EIGRP	ent	param	router	hannel	differe	exhibit	the	EIGRP
protoc	update	describ	eters	loses	is	nce		SPF	autom
ol-	packet	es the	does	the	imple	betwee	Switch	algorit	atic
depen dent	s sent?	autono	EIGRP	route	mente	n the	SW-A is to	hm	summ
modul	only	mous system	use by default	to a networ	d, multipl	routing protoc	be	consid er to	arizati on be
es	when	numbe	to	k. Its	e	ols	used	be the	turned
provid	necess	r used	calcula	topolo	physic	EIGRP	as a	best	off?
]						

e to	ary	in	te the	gy	al	and	tempor	path to	when a
the	ω. γ	EIGRP	best	table	interfa	OSPF?	ary	a	router
EIGRP	when	configu	path?	contain	ces are	0011.	replace	networ	has
routing	learne	ration	(Choos	s two	bundle	EIGRP	ment	k?	not
protoc	d	on a	e two.)	feasibl	d into	uses	for	K:	discov
ol?	routes	Cisco	e two.)		which	hop	anothe	The	ered a
Olf	age		delay	е		count		path	
route	out	router?	aciay	succes	type of	as the	r	with	neighb
differe	out	It	MTU	sors to	logical	metric	switch	the	or
nt	every	carries		the	connec	and	in the	least	within
Layer	5	the	reliabili	same	tion?	OSPF	VTP	numbe	three
3	second		ty	networ	interfa	uses	Studen	r of	minute
_	s via	geogra		k.		cost as	. t		S
protoc ols	multica	phical inform	transm	What	ce	the	domai	hops.	when a
OIS	st		it and	action	range		n.	The	
exchan	50	ation	receive	will the	loopba	metric.	What	path	router
ge	every	of the	load	router	ck	EIGRP	two	with	has
summ	30	organiz		take?	CK	is an	pieces	the	more
ary	second	ation.	bandwi	T I	VLAN	imple	of	smalle	than
routes	s via	It	dth	The	interfa	mentat	inform	st	three
betwee	broadc	functio		DUAL	ce	ion of	ation	delays.	active
	ast	ns as a	delay	algorit		EGP	are	uciays.	interfa
n		proces	المناه ما ما	hm is	port	wherea	indicat	The	ces
areas	only	s ID in	bandwi	recom	channe	s OSPF	ed	path	when a
combin	when	the	dth	puted	- 1	is an	from	that	networ
е	necess			to find		imple	the	include	k
routes	ary	operati on of		an	port	mentat	exhibit	s the	contain
learne	ω. γ	the		alterna	channe		ed	fastest	
d from				te	I	ion of IGP.	output	cumula	s discont
differe		router.		route.		IGP.	?	tive	
nt		It is a		The		EIGRP	(Choos	bandwi	iguous
protoc		globall				suppor	e two.)	dth	networ
ols into		у		router		ts		links.	k
a		unique		uses		routing	The	mino.	addres
single		autono		the		differe	other	The	ses
routing		mous		default		nt	switch	path	when a
table		system		route.		networ	es in	that	router
tabic		numbe		The		k layer	the	include	has
load		r that		best		protoc	domai	s the	less
balanc		is		alterna		ols	n can	fastest	than
е							be	single	five
betwee		assign		tive		wherea s OSPF	runnin	bandwi	active
n		ed by IANA.		backup			g	dth	interfa
routing		IANA.		route		suppor	either	link.	
protoc		It		is immed		ts	VTP		ces
ols		identifi		immed		routing	version	The	when a
		es the		iately		only	1 or 2.	path	networ
				inserte		IP-		Patri	1100001

	ISP	d into	based	There	that	k
route	that	the	protoc	is a	include	addres
differe	provid	routing	ols.	risk	s the	sing
nt	es the	table.	0.5.	that	fastest	schem
Layer	connec		EIGRP	the	cumula	e uses
3	tion to	The	only	switch	tive	VLSM
protoc	networ	router	suppor	may	bandwi	V 2011
ols	k of	will	ts	cause	dth	when a
	the	query	equal-	incorre	links.	networ
	organiz	neighb	cost	ct		k
	ation.	ors for	load	VLAN		contain
		an	balanci	inform		S
	It	alterna	ng	ation		discont
	functio	te	wherea	to be		iguous
	ns as a	route.	s OSPF	sent		networ
	proces		suppor	throug		k
	s ID in	The	ts both	h the		addres
	the	best	equal-	domai		ses
	operati	alterna	cost	n.		
	on of	tive	and			
	the	backup	unequ	VTP		
	router.	route	al-cost	will		
		is	load	block		
		immed	balanci	frame		
		iately	ng.	forwar		
		inserte		ding		
		d into	EIGRP	on at		
		the	suppor	least		
		routing	ts	one		
		table.	routing	redund		
			differe	ant		
			nt	trunk		
			networ	port		
			k layer	that is		
			protoc	configu		
			ols	red on		
			wherea	this		
			s OSPF	switch.		
			suppor	VLAN		
			ts	configu		
			routing	ration		
			only IP-	change		
			based	s made		
			protoc	on this		
			ols.	switch		
			013.			

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							will be		
							sent to		
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							throug h the domai n. This switch will update its VLAN configu ration when VLAN change s are made on a VTP server in the same		
700	700	700	700	700	700	700	d 900 ai		
	, , ,	/ / / / /	700	700	700	700	~ 300 .	700	700
When	Which	Which	Which	Which	When	700 What	What	700 Which	700 What
When will a						What protoc			
will a router	Which addres s is	Which route or	Which comma nd will	Which statem ent	When a range	What protoc ol is	What is a charac	Which protoc ol does	What is a functio
will a router that is	Which addres s is used	Which route or routes	Which comma nd will configu	Which statem ent describ	When a range of	What protoc ol is used	What is a charac teristic	Which protoc ol does EIGRP	What is a functio n of
will a router that is runnin	Which addres s is used by an	Which route or routes will be	Which comma nd will configu re an	Which statem ent describ es the	When a range of ports	What protoc ol is used by	What is a charac teristic of	Which protoc ol does EIGRP use for	What is a functio n of OSPF
will a router that is runnin g	Which addres s is used by an IPv6	Which route or routes will be adverti	Which comma nd will configu re an IPv6	Which statem ent describ es the load	When a range of ports is	What protoc ol is used by EIGRP	What is a charac teristic of spanni	Which protoc ol does EIGRP use for the	What is a functio n of OSPF hello
will a router that is runnin g EIGRP	Which addres s is used by an IPv6 EIGRP	Which route or routes will be adverti sed to	Which comma nd will configu re an IPv6 default	Which statem ent describ es the load balanci	When a range of ports is being	What protoc ol is used by EIGRP for the	What is a charac teristic of spanning	Which protoc ol does EIGRP use for the transp	What is a functio n of OSPF hello packet
will a router that is runnin g EIGRP put a	Which addres s is used by an IPv6 EIGRP router	Which route or routes will be adverti sed to the	Which comma nd will configu re an IPv6 default static	Which statem ent describ es the load balanci ng	When a range of ports is being configu	What protoc ol is used by EIGRP for the deliver	What is a charac teristic of spanni	Which protoc ol does EIGRP use for the transp ortatio	What is a functio n of OSPF hello
will a router that is runnin g EIGRP	Which addres s is used by an IPv6 EIGRP	Which route or routes will be adverti sed to	Which comma nd will configu re an IPv6 default static route?	Which statem ent describ es the load balanci	When a range of ports is being	What protoc ol is used by EIGRP for the	What is a charac teristic of spanning tree?	Which protoc ol does EIGRP use for the transp	What is a functio n of OSPF hello packet s? to
will a router that is runnin g EIGRP put a destina	Which addres s is used by an IPv6 EIGRP router as the	Which route or routes will be adverti sed to the router	Which comma nd will configu re an IPv6 default static route?	Which statem ent describ es the load balanci ng behavi	When a range of ports is being configu red for	What protoc ol is used by EIGRP for the deliver y and receipt of	What is a charac teristic of spanning tree? It is enable	Which protoc ol does EIGRP use for the transp ortatio n of	What is a functio n of OSPF hello packet s? to send
will a router that is runnin g EIGRP put a destina tion networ k in	Which addres s is used by an IPv6 EIGRP router as the source for hello	Which route or routes will be adverti sed to the router ISP if autosu mmari	Which comma nd will configu re an IPv6 default static route? router(config)	Which statem ent describ es the load balanci ng behavi or of EIGRP?	When a range of ports is being configu red for EtherC hannel , which	What protoc ol is used by EIGRP for the deliver y and receipt of EIGRP	What is a charac teristic of spanning tree? It is enable d by	Which protoc ol does EIGRP use for the transp ortatio n of EIGRP	What is a functio n of OSPF hello packet s? to send specific
will a router that is runnin g EIGRP put a destina tion networ k in the	Which addres s is used by an IPv6 EIGRP router as the source for hello messa	Which route or routes will be adverti sed to the router ISP if autosu mmari zation	Which comma nd will configu re an IPv6 default static route? router(config) # ipv6	Which statem ent describ es the load balanci ng behavi or of EIGRP?	When a range of ports is being configu red for EtherC hannel, which mode	What protoc ol is used by EIGRP for the deliver y and receipt of EIGRP packet	What is a charac teristic of spanning tree? It is enable d by default	Which protoc of does EIGRP use for the transp ortation of EIGRP packet s?	What is a functio n of OSPF hello packet s? to send specific ally
will a router that is runnin g EIGRP put a destina tion networ k in the active	Which addres s is used by an IPv6 EIGRP router as the source for hello	Which route or routes will be adverti sed to the router ISP if autosu mmari zation is	Which comma nd will configu re an IPv6 default static route? router(config) # ipv6 ::/64	Which statem ent describ es the load balanci ng behavi or of EIGRP?	When a range of ports is being configu red for EtherC hannel , which mode will	What protoc ol is used by EIGRP for the deliver y and receipt of EIGRP	What is a charac teristic of spanning tree? It is enable d by default on	Which protoc ol does EIGRP use for the transp ortatio n of EIGRP packet s?	What is a functio n of OSPF hello packet s? to send specific ally reques
will a router that is runnin g EIGRP put a destina tion networ k in the	Which addres s is used by an IPv6 EIGRP router as the source for hello messa	Which route or routes will be adverti sed to the router ISP if autosu mmari zation is enable	Which comma nd will configure an IPv6 default static route? router(config) # ipv6 ::/64 s0/0/0	Which statem ent describ es the load balanci ng behavi or of EIGRP?	When a range of ports is being configu red for EtherC hannel , which mode will configu	What protoc ol is used by EIGRP for the deliver y and receipt of EIGRP packet	What is a charac teristic of spanning tree? It is enable d by default	Which protoc of does EIGRP use for the transp ortation of EIGRP packet s?	What is a functio n of OSPF hello packet s? to send specific ally
will a router that is runnin g EIGRP put a destina tion networ k in the active	Which addres s is used by an IPv6 EIGRP router as the source for hello messa ges?	Which route or routes will be adverti sed to the router ISP if autosu mmari zation is	Which comma nd will configu re an IPv6 default static route? router(config) # ipv6 ::/64 s0/0/0 router(Which statem ent describ es the load balanci ng behavi or of EIGRP?	When a range of ports is being configu red for EtherC hannel , which mode will configu re	What protoc ol is used by EIGRP for the deliver y and receipt of EIGRP packet s?	What is a charac teristic of spanning tree? It is enable d by default on Cisco	Which protoc of does EIGRP use for the transp ortation of EIGRP packet s? User Datagr	What is a functio n of OSPF hello packet s? to send specific ally reques ted
will a router that is runnin g EIGRP put a destina tion networ k in the active state?	Which addres s is used by an IPv6 EIGRP router as the source for hello messa ges? the 32-bit router	Which route or routes will be adverti sed to the router ISP if autosu mmari zation is enable d?	Which comma nd will configure an IPv6 default static route? router(config) # ipv6 ::/64 s0/0/0 router(config-	Which statem ent describ es the load balanci ng behavi or of EIGRP? EIGRP for IPv4 suppor ts unequ	When a range of ports is being configu red for EtherC hannel , which mode will configu	What protoc ol is used by EIGRP for the deliver y and receipt of EIGRP packet s?	What is a charac teristic of spanning tree? It is enable d by default on Cisco switch es.	Which protoc of does EIGRP use for the transp ortation of EIGRP packet s? User Datagram	What is a functio n of OSPF hello packet s? to send specific ally reques ted link-
will a router that is runnin g EIGRP put a destina tion networ k in the active state? when the EIGRP	Which addres s is used by an IPv6 EIGRP router as the source for hello messa ges? the 32-bit	Which route or routes will be adverti sed to the router ISP if autosu mmari zation is enable d?	Which comma nd will configure an IPv6 default static route? router(config) # ipv6 ::/64 s0/0/0 router(config-rtr)#	Which statem ent describ es the load balanci ng behavi or of EIGRP? EIGRP for IPv4 suppor ts unequal cost	When a range of ports is being configu red for EtherC hannel , which mode will configu re LACP	What protoc ol is used by EIGRP for the deliver y and receipt of EIGRP packet s?	What is a charac teristic of spanning tree? It is enable d by default on Cisco switch es. It has	Which protoc ol does EIGRP use for the transp ortatio n of EIGRP packet s? User Datagr am Protoc ol	What is a functio n of OSPF hello packet s? to send specific ally reques ted link- state
will a router that is runnin g EIGRP put a destina tion networ k in the active state? when the EIGRP domai	Which addres s is used by an IPv6 EIGRP router as the source for hello messa ges? the 32-bit router ID	Which route or routes will be adverti sed to the router ISP if autosu mmari zation is enable d? 10.0.0. 0/8	Which comma nd will configure an IPv6 default static route? router(config) # ipv6 ::/64 s0/0/0 router(configrtr)# redistri	Which statem ent describ es the load balanci ng behavi or of EIGRP? EIGRP for IPv4 suppor ts unequal cost load	When a range of ports is being configu red for EtherC hannel, which mode will configu re LACP on a port only if	What protoc ol is used by EIGRP for the deliver y and receipt of EIGRP packet s? RTP TCP UDP	What is a charac teristic of spanning tree? It is enable d by default on Cisco switch es. It has a TTL	Which protoc ol does EIGRP use for the transp ortatio n of EIGRP packet s? User Datagr am Protoc ol Reliabl	What is a functio n of OSPF hello packet s? to send specific ally reques ted link- state record s
will a router that is runnin g EIGRP put a destina tion networ k in the active state? when the EIGRP	Which addres s is used by an IPv6 EIGRP router as the source for hello messa ges? the 32-bit router	Which route or routes will be adverti sed to the router ISP if autosu mmari zation is enable d?	Which comma nd will configure an IPv6 default static route? router(config) # ipv6 ::/64 s0/0/0 router(config-rtr)#	Which statem ent describ es the load balanci ng behavi or of EIGRP? EIGRP for IPv4 suppor ts unequal cost	When a range of ports is being configu red for EtherC hannel , which mode will configu re LACP on a port	What protoc ol is used by EIGRP for the deliver y and receipt of EIGRP packet s?	What is a charac teristic of spanning tree? It is enable d by default on Cisco switch es. It has	Which protoc ol does EIGRP use for the transp ortatio n of EIGRP packet s? User Datagr am Protoc ol	What is a functio n of OSPF hello packet s? to send specific ally reques ted link- state record

ged	global	10.1.0.	router(EIGRP	receive	RTP	that	ort	er
	unicast	0/28	config)	for	s LACP	KIP	works	Protoc	neighb
when	addres		# ipv6	IPv6	packet		at	ol	ors
there	s that	10.1.1.	route	does	s from		Layer	Б	and
is	is	0/24	::/0	not.	anothe		2.	Real-	build
outgoi	configu	10.1.2.	s0/0/0	FICDD	r		T.L	Time	adjace
ng	red on	0/24		EIGRP	device		It	Transp	ncies
traffic	the	10.1.3.	router(for	?		preven	ort	betwee
toward	interfa	0/24	config)	IPv6	a ativo		ts	Protoc	n them
the	ce	10.1.4.	# ipv6	suppor	active		propag	ol	+0
destina	the all	0/28	unicast	ts	auto		ation of	Trans	to
tion	the all- EIGRP-	10.0.0.	routing	unequ	aaco			missio	ensure
networ k	routers	0/8	routing	al cost load	desirab		Layer 2	n	databa
K	multica	0/6	routor(balanci	le		broadc	Control	se
when	st		router(config)				ast	Protoc	synchr onizati
there	addres		# ipv6	ng, but EIGRP	passiv		frames	ol	on
is an	S		route	for	е		ii aiiies		betwee
EIGRP	3		::/0	IPv4			•	Reliabl	n
messa	the		s0/0/0	does	passiv		It is	е	routers
ge	interfa		30/0/0	not.	е		used	Transp	Touters
from	ce			1100.			to	ort	to
the	IPv6			Neither			discov	Protoc	reques
succes	link-			EIGRP			er	ol	t
sor of	local			for			inform		specific
the	addres			IPv4			ation		link-
destina	S			nor			about		state
tion				EIGRP			an		record
networ	the			for			adjace		s from
k	interfa			IPv6			nt		neighb
	ce			suppor			Cisco		or
when	IPv6			t			device.		routers
the	link-			unequ					
connec	local			al cost			It is		to
tion to	addres			load			enable		discov
the	S			balanci			d by		er
succes				ng.			default		neighb
sor of				Dakk			on		ors
the				Both			Cisco		and
destina				EIGRP			switch		build
tion				for IPv4			es.		adjace
networ k fails									ncies
and				and EIGRP					betwee
there				for					n them
is no				IPv6					
feasibl				suppor					

e succes sor availab le when the connec tion to the succes sor of the				t unequ al cost load balanci ng. Both EIGRP for IPv4 and EIGRP for					
destina tion				IPv6 suppor					
networ				t					
k fails and				unequ al cost					
there				load					
is no				balanci					
feasibl				ng.					
e succes									
succes									
availab									
le									
800	800 What	800	800	800	800	800	800	800 Which	800
What routing	are	A router	In an OSPFv	What does	hich two	Which statem	A set of	two	What is the
protoc	two	is	2	the	channe	ent	switch	statem	final
ol can	feature	partici	configu	cost of	l group	describ	es is	ents	operati
be	s of a	pating	ration,	an	modes	es the	being	are	onal
configu	link-	in an	what is	OSPF	would	autono	connec	correct	state
red to	state	OSPFv	the	link	place	mous	ted in	about	that
load	routing	2	effect	indicat	an	system	a LAN	EIGRP	will
balanc	protoc	domai	of 	e?	interfa	numbe	topolo	ackno	form
e	ol?	n. What	enterin	Α	ce in a	r used	gy.	wledg	betwee
across	(Choos e two.)	What will	g the comma	higher	negoti ating	in EIGRP	Which STP	ment packet	n an OSPF
with	[= (WO.)	always	nd	cost	state	configu	bridge	s?	DR and
unequ	Router	happe	networ	for an	using	ration	priority	(Choos	a
al	s send	n if the	k	OSPF	PAgP?	on a	value	e two.)	DROTH
metric	periodi	dead	192.16	link	(Choos	Cisco	will	,	ER
S	C	interva	8.1.1	indicat	e two.)	router?	make	The	once
throug	update	l	0.0.0.0	es a			it least	packet	the

h the	s only	expires	area	faster	on	It	likely	s are	routers
use of	to	before	0?	path to		carries	for the	sent in	reach
the	neighb	the		the	desirab	the	switch	respon	conver
varianc	oring	router	It	destina	le	geogra	to be	se to	gence?
е	routers	receive	change	tion.		phical	selecte	hello	3
comma		s a	s the	0.0	active	inform	d as	packet	full
nd?	•	hello	router	Link		ation	the	S.	
110.	Router	packet	ID of	cost	auto	of the	root?	5.	two-
EIGRP	s send	from	the	indicat	nacciv	organiz	1000:	The	way
	trigger	an	router	es a	passiv	ation.	4096	packet	
OSPF	ed		to	propor	е	acion.		s are	loading
	update	adjace	192.16	tion of	_1 ! ! _	It	32768	used	4- 1-1:
OSPFv	s in	nt	8.1.1.	the	desirab	functio		to	establi
3	respon	DROTH	0.1.1.	accum	le	ns as a	61440	discov	shed
	se to a	ER	It	ulated	outo.	proces		er	
RIPng	change	OSPF	enable	value	auto	s ID in	65535	neighb	full
	change	router?	s OSPF	of the		the		ors	
EIGRP	•	OSPF	on all	route			61440	that	
	Router	will run	interfa			operati			
	S		ces on	to the		on of		are	
	create	a new	the	destina		the		connec	
	a	DR/BD	router.	tion.		router.		ted on	
	topolo	R	Touter.	Cost		It is a		an	
	gy of	electio	It tells	equals		globall		interfa	
	the	n.	the	bandwi				ce.	
	networ	SPF	router	dth.		у		The	
		will run	which	utii.		unique autono			
	k by		interfa	Α				packet	
	using	and	ce to	lower		mous		s are	
	inform	determ	turn on	cost		system		sent as	
	ation	ine	for the	indicat		numbe		unicast	
	from	which	OSPF	es a		r that		•	
	other	neighb	routing	better		is		The	
	routers	or		path to		assign			
	•	router	proces	the		ed by		packet	
	The	is	S.			IANA.		S	
	The	"down"	It	destina		TL		require	
	databa		allows	tion		It		confir	
	se	Δ	all	than a		identifi		mation	
	inform	A new	192.16	higher		es the		•	
	ation	dead	8.1.0	cost		ISP		The	
	for	interva	networ	does.		that		packet	
	each	I timer				provid		-	
	router	of 4	ks to	. A		es the		s are	
	is	times	be	lower		connec		unrelia	
	obtain	the	adverti	cost		tion to		ble.	
	ed	hello	sed.	indicat		networ		TL -	
	from	interva		es a		k of		The	

Ros tri up sech Ro cr to g ne k u in a f o	imbe rof router link-state databa se. OSPF will remove e that neighbors ange in spon ato a neighbors ange opolo y of the etwor of by sing form tion rom ther uters	routing proces s.			the operati on of the router.		unrelia ble.	
	900 900 What What	900 In the	900 A	900 A	900 How is	900 Which	900 What	900 A

two	inform	is the	Cisco	networ	networ	bandwi	statem	EIGRP	router
addres	ation is	functio	hierarc	k	k	dth to	ent is	packet	needs
ses	contain	n of	hical	engine	admini	а	true	type is	to be
repres	ed in	STP in	design	er is	strator	destina	about	used	configu
ent	OSPF	a	model,	interes	is	tion	the	by	red to
valid	type 3	scalabl	which	ted in	analyzi	networ	states	EIGRP	route
destina	LSAs?	е	layer is	obtaini	ng the	k	of the	routers	within
tion		networ	more	ng	feature	calcula	IEEE	to	OSPF
addres	networ	k?	likely	specific	s that	ted by	802.1D	discov	Area 0.
ses for	ks		to	inform	are	EIGRP?	Spanni	er	Which
an	reacha	It	have a	ation	suppor		ng	neighb	two
OSPFv	ble in	decrea	fixed	releva	ted by	the	Tree	ors on	comma
3	other	ses the	configu	nt to	differe	lowest	Protoc	directl	nds
messa	areas	size of	ration	the	nt	configu	ol?	У	are
ge?	n a h a	the	switch	operati	first-	red		connec	require
(Choos	networ	failure	than	on of	hop	bandwi	Ports	ted	d to
e two.)	ks	domai	the	both	router	dth of	are	links?	accom
	learne	n to	other	distrib	redund	any	manua		plish
FF02::	d from	contain	layers?	ution	ancy	interfa	lly	hello	this?
5	other	the		and	protoc	ce	configu	auorv	(Choos
224.0.	routing protoc	impact	distrib	access	ols.	along	red to	query	e two.)
0.5	ols	of	ution	layer	Which	the	be in	update	
0.5	UIS	failures	transp	Cisco	statem	route	the		Router
FF02::	the	•	ort	device	ent is	the	forwar	ackno	A(confi
Α	router	It	Oit	s.	а	sum of	ding	wledg	g)#
	ID of	protect	interne	Which	feature	the	state.	ment	router
FE80::	the DR	s the	t	comma	that is	configu	Ports		ospf 0
42	to all	edge		nd	associa	red	listen	hello	Router
2004	routers	of the	access	provid	ted	bandwi	and		A(confi
2001:d	in the	enterp		es	with	dths of	learn		g)#
b8:aca	area	rise	core	commo	GLBP?	all	before		router
d:1::1		networ		n	GLBP	interfa	going		ospf 1
FF02	the	k from	access	inform	allows	ces	into		33p. =
FF02::	router	malicio		ation	load	along	the		Router
5	ID of	us		releva	balanci	the	forwar		A(confi
FE80::	an	activity		nt to	ng	path	ding		g-
42	ASBR			both	betwee		state.		router)
	and			types	n	the			#
	the	It		of	routers	highest	Ports		networ
	route	disable		device	Touters	configu	must		k
	to .	S		s?	•	red	be		192.16
	reach	redund		show	It is	bandwi	blocke		8.2.0
	it	ant		ip	nonpro	dth of	d		0.0.0.2
		paths		protoc	prietar	any	before		55 0
	networ	to		ols	у.	interfa	they		Dautan
	ks	elimina				ce	can be		Router

	reacha ble in other areas	te Layer 2 loops. It combin es multipl e switch trunk links to act as logical link for increas ed bandwi dth. It disable s redund ant paths to elimina te Layer 2 loops.		show ip interfa ce show cdp neighb ors show macaddres s-table show cdp neighb ors	It uses a virtual router master . It works togeth er with VRRP. GLBP allows load balanci ng betwee n routers .	the path the bandwi dth of the ingress interfa ce of the last hop router the lowest	placed in the disable d state. It takes 15 second s for a port to go from blockin g to forwar ding. Ports listen and learn before going into the forwar ding state.		A(confi grouter) # networ k 192.16 8.2.0 0.0.0.2 55 area 0 Router A(confi grouter) # networ k 192.16 8.2.0 255.25 5.255. 0 0 Router A(confi g)# router ospf 1 Router A(confi grouter) # networ k 192.16 8.2.0 0.0.0.2 55
1000 A switch	1000 What are	1000 A networ	1000 A networ	1000 What are	1000 A new chief	1000 An EIGRP	1000 When the	1000 Which statem	area 0 1000 How is the

ed	three	k	k	two	inform	router	show	ent	router
networ	charac	admini	admini	drawb	ation	loses	spanni	describ	ID for
k has	teristic	strator	strator	acks to	officer	the	ng-	es the	an
conver	s of	is	is	turning	(CIO)	route	tree	autono	OSPFv
ged	VTP?	plannin	adding	spanni	has	to a	vlan	mous	3
comple	(Choos	g to	a new	ng tree	reques	networ	33	system	router
tely.	е	add a	VLAN	off and	ted	k. Its	comma	numbe	determ
All	three.)	new	for	having	imple	topolo	nd is	r used	ined?
switch		switch	testing	multipl	mentat	gy	issued	in	
es	In the	to the	. The	е	ion of	table	on a	EIGRP	the
current	default	networ	compa	paths	a link-	contain	switch,	configu	highest
ly have	VTP	k.	ny	throug	state	s two	three	ration	IPv6
a VTP	mode,	What	uses	h the	dynam	feasibl	ports	on a	addres
revisio	VLANs	should	VTP	Layer	ic	е	are	Cisco	s on
n	can be	the	and	2	routing	succes	shown	router?	an
numbe	create	networ	the	switch	protoc	sors to	in the	_	active
r of 5.	d,	k	VLAN	networ	ol.	the	forwar	It	interfa
A new	modifi	admini	is not	k?	Which	same	ding	carries	ce
switch	ed,	strator	directl	(Choos	two	networ	state.	the	tho
that	and	do to	У	e two.)	routing	k.	In	geogra	the lowest
has	delete	ensure	attach		protoc	What	which	phical	MAC
been	d on	the	ed to	The	ols	action	two	inform	addres
configu	the	new	either	switch	fulfill	will the	port	ation	s on
red as	switch.	switch	of the	acts	this	router	roles	of the	an
a VTP	Switch	exchan	switch	like a	require	take?	could	organiz	active
server	es in	ges	es	hub.	ment?	 1	these	ation.	interfa
is	VTP	VTP	configu	Port	(Choos	The	interfa	It	ce
added	server	inform	red as	securit	e two.)	DUAL	ces	functio	CC
to the	mode	ation	VTP	У	DID. 3	algorit	functio	ns as a	the
networ	store	with	servers	becom	RIPv2	hm is	n while	proces	highest
k. The	VLANs	the	. What	es	BGP	recom	in the	s ID in	IPv4
new	in the	other	is the	unstabl	ВО	puted	forwar	the	addres
switch	vlan.da	switch	best	e.	OSPF	to find	ding	operati	s on
has a	t	es in	metho	<u>.</u>		an alterna	state?	on of	an
VTP	databa	the	d to	The	IS-IS		(Choos	the	active
revisio	se.	VTP .	add	MAC	CI CDD	te route.	e two.)	router.	interfa
n .	56.	domai	this	addres	EIGRP	Toute.	disable		ce
numbe	Α	n?	VLAN	s table	OCDE	The	d	It is a	_
r of 4.	switch	Config	to the	becom	OSPF	router	u	globall	the
What	in	ure the	networ	es	IS-IS	uses	design	У	highest
will	transp	correct	k?	unstabl	10 10	the	ated	unique	EUI-64
occur	arent	VTP	Chang	e.		default		autono	ID on
within	mode	domai	e the			route.	root	mous	an
the	with a	n	switch	Broadc		- 3		system	active
networ	higher	name	that	ast		The	alterna	numbe	interfa
k?	configu	Harric	Citat	frames		best	te	r that	ce

The	ration	224	hac	aro I	 	altorna	blocks	l ic	
The	ration	and	has	are		alterna	blocke	is	the
networ	revisio	passwo	connec	transm		tive	d	assign	highest
k will	n	rd on	ted	itted		backup	do 51 5 5	ed by	IPv4
no	numbe	the	hosts	indefini		route	design	IANA.	addres
longer	r than	new	in the	tely.		is	ated	It	s on
share	the	switch.	new	Port		immed	root	identifi	an
VLAN	existin	Associ	VLAN	securit		iately	1000	es the	active
databa	g VTP		to be			inserte		ISP	interfa
se	server	ate all	in VTP	y shuts		d into			ce
update	update	ports	server	down		the		that	
S.	s all	of the	mode.	all of		routing		provid	
The	VLAN	new	Confin	the		table.		es the	
The	inform	switch	Config	ports		The		connec	
newly	ation	to a	ure a	that		The		tion to	
added	throug	VLAN	port on	have		router		networ	
switch	hout	that is	the	attach		will		k of	
will	the	not	VTP	ed		query		the	
autom	VTP	VLAN	servers	device		neighb		organiz	
atically	domai	1.	for the	s.		ors for		ation.	
switch	n.	Config	same			an			
to VTP	_	ure the	VLAN	Broadc		alterna		It	
client	То	VLANs	as the	ast		te		functio	
mode.	reset a		new	frames		route.		ns as a	
The	configu	on the	VLAN.	are				proces	
The	ration	new	Manual	transm		The		s ID in	
VTP	revisio	switch.	Manual	itted		best		the	
databa	n .	Config	ly add	indefini		alterna		operati	
ses will	numbe	ure all	the	tely		tive		on of	
remain	r, the	ports	VLAN	The		backup		the	
unchan	switch	on the	to the	The		route		router.	
ged in	configu	new	VLAN	MAC		is			
all	ration	switch	databa	addres		immed			
switch	must	to	se of	s table		iately			
es with	be .	access	the	becom		inserte			
the	saved	mode.	VTP	es		d into			
excepti	and	11100001	servers	unstabl		the			
on of	the	Config	•	e.		routing			
the	switch	ure the	Config			table.			
newly	reload	correct	ure						
added	ed.	VTP	interfa						
switch.	\	domai	ces on						
All	VTP		the						
switch	update	n							
	s are	name	switch						
es in	exchan	and	that						
the	ged	passwo	has						
networ		rd on	connec						

k will update their VTP databa se to reflect the VTP databa se of the new switch. The VTP databa ses will remain unchan ged in all switch excepti on of the newly added switch.	across trunk links only. In the default VTP mode, VLANs can be create d, modifi ed, and delete d on the switch. VTP update s are exchan ged across trunks only. Switch es in VTP server mode vLANs in the vlan. da t	the new switch.	ted hosts in the new VLAN and reboot the switch. Manual ly add the VLAN databa se of the VTP servers .							
1100 Which comma	databa 1100 Se. Which criterio	1100 What is the	1100 Which three	1100 When does	1100 Which type of	1100 Which functio	1100 Which is a	1100 What two	1100 What does	
nd would	n is preferr	effect of	require ments	an OSPF	OSPF router	n is perfor	charac teristic	values must	an OSPF	

limit	ed by	enterin	are	router	connec	med	of	match	area
the	the	g the	necess	becom	ts an	by an	EtherC	betwee	contain
amoun	router	networ	ary for	e an	OSPF	OSPF	hannel	n two	?
t of	to	k	two	ABR?	area to	ABR?	?	EIGRP	-
bandwi	choose	192.16	OSPFv	ADIC.	non-	ADIC.	•	directl	routers
dth	а	8.10.1	2	when	OSPF	floodin	EtherC	У	that
that is	router	0.0.0.0	routers	the	routing	g type	hannel	connec	share
used	ID?	area 0	to	router	domai	2 LSAs	uses	ted	the
by	ID:	comma	form	has	ns?	within	physic	neighb	same
EIGRP	the IP	nd in	an	interfa	115:	an	al	ors to	router
for	addres	router	adjace	ces in	ABR	area	ports	establi	ID
	s of		-	differe			that	sh and	
protoc ol	the	configu ration	ncy?	nt	ASBR	origina	have	mainta	routers
	highest		(Choos	areas		ting	been		whose
control traffic	configu	mode?	e +broo \	a. cas	DR	type 5	upgrad	in an	SPF
	red	The	three.)	when	la a al da a	LSAs	ed to	adjace	trees
to	loopba	interfa	The	the	backbo	into an	provid	ncy?	are
approx imatel	ck	ce with	two	router	ne	area	e a	(Choos	identic
	interfa	the	routers	is	router		faster	e two.)	al
y 128	ce on	IPv4	must	configu	A C D D	injectin	connec	metric	
Kb/s	the	addres	include	red as	ASBR	g type	tion.	param	routers
on a	router	S	the	an ABR		3 LSAs	CIOIII	eters	that
1.544	Touter	192.16	inter-	by the		into an	STP	CCCIS	have
Mb/s	the IP	8.10.1	router	networ		area	will not	autono	the
link?	addres	will be	link	k			block	mous	same
ip	s of	a	networ	admini		adverti	redund	system	link-
bandwi	the	passiv	k in an	strator		sing	ant	numbe	state
dth-	highest	e	OSPFv			the	EtherC	r	inform
percen	active	interfa	2	when		router	hannel		ation
t eigrp	interfa	ce.	networ	the		ID of	bundle	router	in their
100 8	ce on	cc.	k	router		any	S	ID	LSDBs
1000	the	OSPF	comma	has		design	betwee	_	_
maxim	router	adverti	nd.	the		ated	n two	Area	routers
um-		semen	iid.	highest		routers	switch	ID	that
paths	the	ts will	The	router		within	es.	hello	share
8	router-	include	OSPFv	ID		an		timers	the
	id rid	the	2			area	STP	uniers	same
varianc	comma	networ	proces	when			treats	motric	proces
e 8	nd	k on	s is	the		injectin	all	metric	s ID
		the	enable	router		g type	interfa	param	
traffic-	the IP	interfa	d on	has an		3 LSAs	ces in	eters	routers
share	addres	ce with	the	OSPF		into an	а	autono	that
balanc	s of	the	interfa	priority		area	bundle	mous	have
ed	the	IPv4	ce by	of 0			as a	system	the
	highest	addres	enterin				single	numbe	same
ip	active	S	g the	when			logical	r	link-
bandwi	OSPF-	-		the			link.	•	state

dth-	enable	192.16	ospf	router	I I	EtherC	I	inform
	d	8.10.1.		has		hannel		ation
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t eigrp	interfa	This	s area- id	interfa		configu		in their
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	id rid	effect	OSPF			each		
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	nd	e it	or			al port.		
		uses a	dead			STP		
		quad	timers			treats		
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		wildcar	each			interfa		
		d	router			ces in		
		mask.	must			а		
		OSPF	match.			bundle		
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		include	proces			link.		
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		0.10.1.	Touter.					
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		k on	match.					
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1200	1200	1200	must 1200	1200	1200	1200	1200	1200

What	In	After	n w hich	Which	What	Which	Α	Which	What
type of	which	imple	e omma	technol	is the	charac	networ	comma	are the
OSPF	mode	mentin	thd can	ogical	functio	teristic	k	nd is	only
IPv4	is the	g an	¢ be	factor	n of	would	admini	used	two
route	area	IPv6	hused	determ	STP in	most	strator	to	roles
is	area-id	networ	to view	ines	а	influen	has	display	that
indicat	range	k, the	OSPF	the	scalabl	ce a	configu	the	permit
ed by	addres	admini	adjace	impact	е	networ	red an	bandwi	an
a route	s mask	strator	ncies	of a	networ	k	EtherC	dth of	OSPF
table	comma	notices	with	failure	k?	design	hannel	an	router
entry	nd	that	neighb	domai		engine	betwee	interfa	to be
descrip	issued	the	oring	n?	It	er to	n two	ce on	configu
tor of	when	OSPFv	routers		decrea	select	switch	an	red for
O E1?	multiar	3	along	the	ses the	а	es that	EIGRP-	summ
	ea	proces	with	numbe	size of	multila	are	enable	arizati
a	OSPF	s is not	the	r of	the	yer	connec	d	on?
summ	summ	startin	transiti	layers	failure	switch	ted via	router?	(Choos
ary	arizati	g on	on	of the	domai	over a	four		e two.)
route	on is	the	state?	hierarc	n to	Layer	trunk	show	,
that is	being	routers		hical	contain	2	links.	ip	backbo
adverti	configu	. What	show	networ	the	switch	If the	route	ne
sed by	red?	could	ip	k	impact	?	physic		router
an ABR		be the	protoc		of		al	show	
	global	proble	ols	the	failures	ability	interfa	interfa	interna
an	configu	' m?		numbe	•	to	ce for	ces	l l
intra-	ration		show	r of		build a	one of	show	router
area	mode	The	ip ospf	users	It	routing	the		design
route		routers	neighb	on the	protect	table	trunk	ip protoc	
that is	router	are	or	access	s the		links	ols	ated
adverti	configu	configu	show	layer	edge	ability	change	UIS	router
sed by	ration	red		the	of the	to	s to a	show	area
the DR	mode	with	ip ospf interfa	role of	enterp	aggreg	down	ip	border
an	interfa	the	ce	the	rise	ate	state,	interfa	router
extern	ce	default	CE	malfun	networ	multipl	what	ce	
al	configu	priority	show	ctionin	k from	e ports	happe	brief	autono
route	ration		runnin		malicio	for	ns to		mous
that is	mode		g-	g device	us 	maxim	the	show	system
adverti	of area	Authen	config	uevice	activity	um	EtherC	interfa	bound
sed by	0	ticatio		the	•	data	hannel	ces	ary
an	interfa	n was	show	forwar	It	throug	?		router
ASBR	ces	not	ip ospf	ding	disable	hput			
ASDR	Ces	imple	neighb	rate of	S	ability	The		area
а	interfa	mente	or	the	redund	to	EtherC		border
directl	ce	d		switch	ant	provid	hannel		router
у	configu	betwee		es	paths	e	will		
connec	ration	n the		used	•		transiti		autono
					to	power			

route that is adverti sed by an ASBR ASBR The router that is adverti sed by an Configu an ASBR The router that is adverti sed by an ASBR The switch to label the the remain that the to thannel will that the paths to elimina the to the failed physic all interface into forwar ding mode. The there and the combin the switch to low will trunk to low will trunk to low with the switch the day the the remain than the to have abbility trunk to will trunk to will trunk to low and the the switch than the to will the the protocol of will trunk to be about the the said the the the ability trunk to will trunk to will trunk to will trunk to be about the trunk to will trunk to be ability trunk to will trunk to be ability trunk to will trunk to be ability trun	1 -	l .	i '	İ	İ .	l !	Ī]	Ī	<u> </u>
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ted with an interfa an interfa an Ethern et configurinterfa ration ce mode an extern al router that is advertised by an ASBR SSR SSR The routers were not rolled that is accomfigured on the routers sed by an ASBR SSR SSR SSR SSR SSR SSR SSR	that is	partici			layer	Layer	у-	state.		bound
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et configuinterfa ce mode an extern al route that is advertised by an ASBR ASBR ASBR et configuinterfa ce mode The routers were not configuing red with sed by an ASBR ASBR ASBR et configuinterfa ce mode The routers were not configuing red with sed by an not configuing and companie the networ k command. No router IDs are configuing red on the routers The routers were act as witch trunk links to nave act as multiplication in the switch through the paths through the will remain function nal. No router IDs are configuing red on the routers The routers were act as witch trunk links to nave ability trunk links. It will remain forward ding multiplication in forward ding multiplication in figure act as witch the trunk links. The EtherC hannel will remain switch to build a physic all interface into forward ding mode. The EtherC hannel will recalcu ability trunk links. The etherC hannel will recalcu ability trunk links to nave act as will the the trunk links to nave act as will trunk links. The EtherC hannel will recalcu ability trunk links to nave act as will the the trunk links to nave act as will trunk links. The EtherC hannel will recalcu ability trunk links to nave act as will trunk links. The EtherC hannel will recalcu ability trunk links to nave act as will trunk links. The EtherC hannel will recalcu ability trunk links to nave act as will trunk links. The EtherC hannel will recalcu ability trunk links to nave act as will trunk links. The EtherC hannel will recalcu ability trunk links to nave act as will trunk links. The EtherC hannel will recalcu ability trunk links to nave act as will recalcu. The EtherC hannel will recalcu ability trunk links to act as will recalcu ability trunk links. The EtherC hannel will recalcu ability trunk links to act as will recalcu ability trunk links. The EtherC hannel will recalcu ability trunk links. The EtherC hannel will recalcu ability trunk links. The EtherC hannel will recalcu ability trunk links. The EtherC hannel ability trunk links. The EtherC	an		_		the		s and			
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nd. No router IDs are configu red on the routers . It disable k s based redund on ant vLAN paths to elimina te Layer 2 loops. loops. Spanni ng Tree Protoc ol will transiti on the failed physic al interfa ce into forwar ding mode. The EtherC hannel will remain						dth.	switch			
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table table ce into forwar ding mode. The EtherC hannel will remain						loops.				
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used	OSPF	ospf	charac	by an
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y the	route	nd	OSPF	to
OSPF	summ	when	extern	
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ks	on?	OSPF	routes	of
adverti	(Choos	routing	?	interfa
sed by	e two.)	protoc	The	ces
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O E1	OSPF	activat	n type	OSPFv
O LI	summ	e the	1 and	3?
O IA	arizati	OSPF	type 2	_
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0		oring	the	ipv6
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0	within	S	the	
	an		cost of	show
	area	to	the	ipv6
	are	influen	route	neighb
	summ	ce the	is	or
	arized	DR/BD	being	
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	ABR.	electio	ted.	ipv6
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	se the		type 2	show
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	arized	provid	al	protoc
	routes	e a	routes	ols
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	the	or for	networ	show
	backbo	connec	ks are	ipv6
	ne.	tivity		protoc
		during	repres	ols
	Type 3	the	ented	
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and	conver	routing			
type 5	gence	table			
ĹSAs	proces	by EX1			
are	S	and			
used		EX2,			
to	to	respect			
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ate	line				
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arizati	influen	for the			
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