

Assignment-04

In partial fulfillment of the requirements for the course of

FA2024-CS3001

Computer Networks

By:

Maryam Masood 22i-1169 BSCS-C

Match Source IP 10.1.0.1, Dest 19=102.0.3 Forward Sxc1P 10-1.0.1, 1P Dust = 10.2.0.4 Forward SEC 18 10.3.0.6, 19 Dest=10.2.0.3 Forward SEC 1P 10.3.0.6, 1P Dest= 10.2.0.4 Forward Src 1P 10.1.6:2, 1P Dest=10.2.0.* DROD S&C 1P 10 3.0.5, 1P Dust = 10.2.0.* Dub (2) Action protocol=TCP, Dustination 17.10,2.0.3 Forward protol=TCP, Dest 1P: W. 2.0.4,58c:x.x.x.x Forward protowl=UDP, solip: x.x.xx, destip:x.x.xx 1000-(3) Match Action iP sic= x. x. x. x , dustip: 10.2.0.3 Forward ip sxc=*, *, *, dust 1p: 10.2.0.4 Drob (4) Action Match 1P sxc = 10.1.0.1, Dust 1P.10.2.0.3, 1P protocol, UDP Forward Any other traftic Dosob Question:02 (=10 Message sent to A, & and C. According to

Dijikstrasmessage sent to Donlys t=110

I sends message to both A and B.

t=210

B sends mussage to C

53 105 2011 5 A

B31101

C:2105

(6)

sifi do aci common for every source's path to destination.

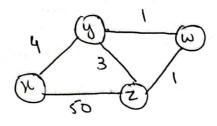
Question: 03

Routex Z > Connect w , D2(2) = 0 comecty soz(x)=b

Routes W-> connect y, Dw(x)=0

connect Z, DWLW=5

Routes y > comectus Dy(x)=4 comect Z, Dy(x) 24



(b)

Consider that the link wist between or and y increases to 60. Then there be a count-to-infinity problem even if poisoned reverse is used as routing converging process.

Routing converging process table,

Time Connect W, 2

Dz(x)=0 connect y,

D2 (x)=6

cormet w, Dz(x)=0 amout y, D2(x)=11

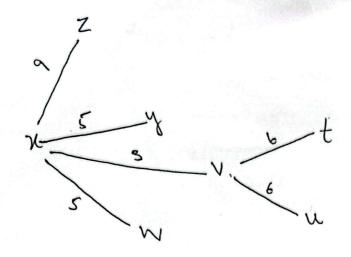
+4

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and the state of the state of the state of	in the probability of the control of the standard part of the control of the cont			The second secon	CONTRACTOR
Time	Connect y, Dw(x) = 00 Connect Z, Dw(x) = 5	Consol (t2 next y, x)=00 next Z,	t 3	ty No change
48	Connect ws Dylx)=4 Connect Z> Dy(x)=4	Dw(Connect ws Dy(x)=9 Zs Dy(x)=0 (c)	O)=(x)	Co	rmect ws y(n)=14 rmect Z, y(n)=0

i'f link between souter if cly, n's changes i's semoved then there i's no count to infinity problem even if the cost of link changes from 4 to 60.

(Question:04)



Question: 05

ca) All except Second Minlost will wook fine.

consider a tolongle topology with 3 moders, A,B,O,

and equal cost on all links. The second route at

A to D is via B, and the second best route at B

to D is via A, resulting in a routing loop.

(b) Add the square of the linked with

to any route with advertised over that link.

Question:06

One way for c to force B to hand over all of B's traffic to D on the east wast is for c to only admitise its soute to D wa its east wast peering point with C.