

1.

WAN端	LAN端
138.7.29.7, 5001	10.0.0.1, 3346
138.7.29.7, 5001	10.0.0.2, 3345
138.7.29.7, 5001	10.0.0.2, 3346
138.7.29.7, 5001	10.0.0.3, 3345
138.7.29.7, 5001	10.0.0.3, 3346

2.

匹配	动作
Ingress port =2 ; IP src=10.1 . * . * ; IP dst =10.3 . * . *	Forward (1)
Ingress port =1 ; IP src =10.3 . * . * IP dst =10.1 . * . *	Forward (2)
IP dst =10. 2 . 0 . 4	Forward (4)
IP dst =10. 2. 0. 3	Forward (3)
IP src = 10. 2. 0. 3 ; IP dst = 10. 2. 0. 4	Forward (4)
IP src =10. 2 . 0 . 4 ; IP dst = 10. 2. 0. 3	Forward (3)

3.

step	N'	D(z),p(z)	D(y),p(y)	D(v),p(v)	D(w),p(w)	D(u),p(u)	D(t),p(t)
0	x	8,x	6,x	3,x	6,x	-	-
1	xv	8,x	6,x	3,x	6,x	6,v	7,v
2	xvu	8,x	6,x	3,x	6,x	6,v	7,v
3	xvuy	8,x	6,x	3,x	6,x	6,v	7,v
4	xvuyw	8,x	6,x	3,x	6,x	6,v	7,v
5	xvuywt	8,x	6,x	3,x	6,x	6,v	7,v
6	xvuywtz	8,x	6,x	3,x	6,x	6,v	7,v

4.

Dz	x	y	u	v
	2	5	6	5

$$d_z(x) = 2$$

$$d_z(y) = \min\{c(z, x) + d_x(y), c(z, v) + d_v(y)\} = 5$$

$$d_z(v) = \min\{c(z, x) + d_x(v), d_z(v)\} = 5$$

$$d_z(u) = \min\{c(z, x) + d_x(u), c(z, v) + d_v(u)\}$$

$$\text{又} d_x(u) = \min\{c(x, y) + d_y(u), c(x, v) + d_v(u), c(x, z) + d_z(u)\} = 4$$

$$\text{故} d_z(u) = 6$$