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TCP UDP

Packet Tracer

VMWare

Window Server

Web

FTP

DNS

E-mail

DHCP

Windows Linux

3 C

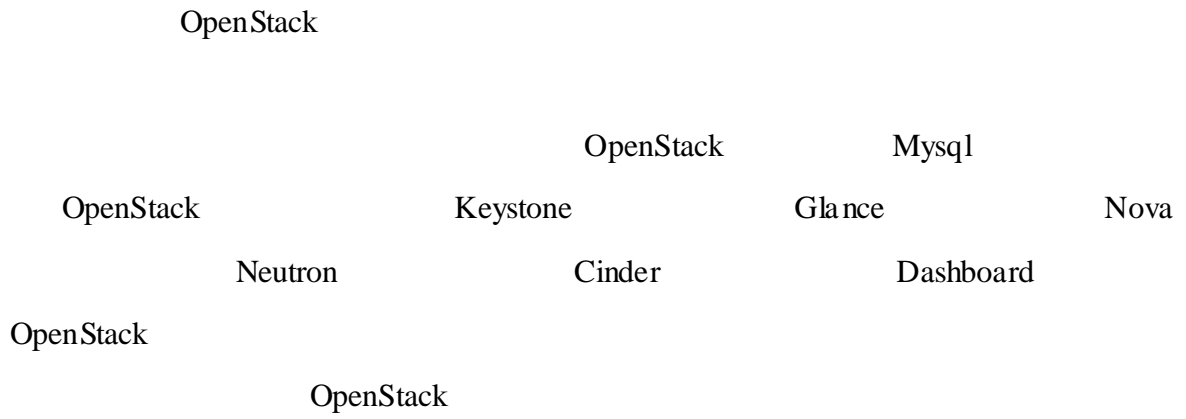
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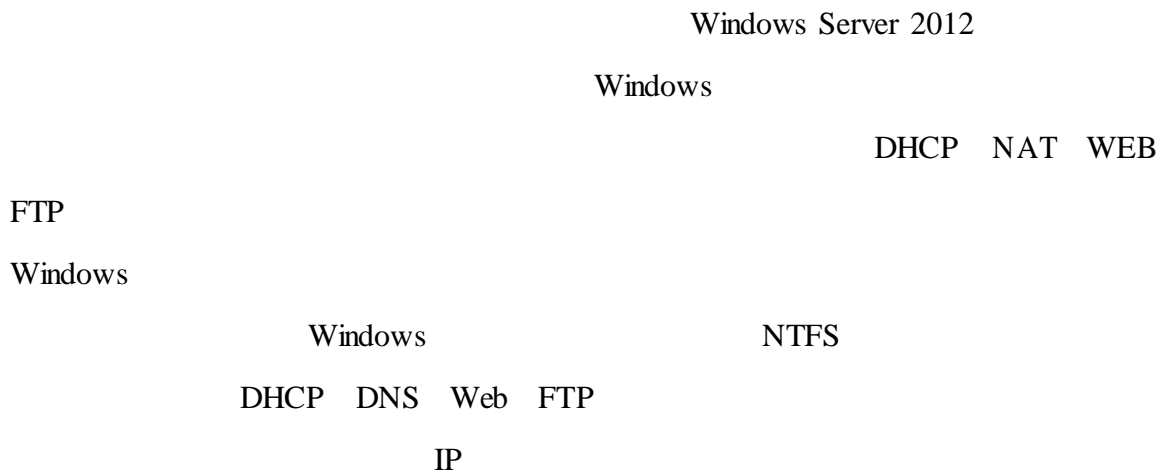
Java PHP

IP

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6 Windows



7 Linux



Linux

Linux

Shell

Linux

Linux

Shell

Linux

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KVM

KVM

KVM

QEMU

Intel

KVM

KVM

QEMU

KVM

CPU

KVM

KVM

KVM

KVM

libvirt

10

				Hadoop			Hive
	Hbase		Mahout		Pig		Flume
		Spark					
					Hadoop	Hive	Hbase
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Pig	Flume	Spark					
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Mahout	Pig	Flume	Spark				Hbase

11 Linux

Linux

Linux

Samba

Samba

Samba

12 Java

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Java

Java

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Java GUI

Java

Java

Java

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VMWare OpenStack

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1	010		4	72	64	8		4/72						
2	020		3	54	46	8	4/54							
3	030	A(1)	1	8	8	0	(8)							
4	032	A(2)		8	0	8		(8)						
5	033	A(3)		8	8	0			(8)					
6	034	A(4)		8	8	0				(8)				
7	035	A(5)		8	8	0					(8)			
8	090	(1)	1	1	1	0	(1)							
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10	040	(1)	3	56	30	26	4/56							
11	041	(2)	4	72	46	26		4/72						
12	060	(1)	2	36	4	32	2/36							
13	061	(2)	2	36	4	32		2/36						
14	062	(3)	2	36	4	32			2/36					
15	170		4	72	50	22		4/72						
16	050	A	3	54	27	27	4/54							
17	080		2	36	30	6				2/36				
18	100	(1)	2	12	8	4	(12)							
19	102	(2)		12	8	4			(12)					
20	103	(3)		12	8	4				(12)				
21	140	(1)	1	6	6	0	(6)							
22	141	(2)		6	6	0		(6)						
23	110		1	12	12	0	(12)							
			35	626	387	239	14/239	14/267	2/56	2/56	/8			
24	0501460B		5	84	42	42	6/84							
25	0500470B		5	84	42	42	6/84							
26	0500120B	C	6	108	54	54		6/108						
27	0501600B		6	108	54	54		6/108						
28	0501610B		6	108	54	54			6/108					

29	0501490B	Windows	4	72	36	36			4/72			
30	0501500B	Linux	6	108	54	54			6/108			
31	0501620B		6	108	54	54			6/108			
32	0501630B		6	108	54	54				6/108		
33	0501640B		6	108	54	54					6/108	
			56	996	498	498	12/168	12/216	22/396	6/108	6/108	
34	0501301B	Linux	4	72	36	36				4/72		
	0500771B											
35	0500221B	Java A	6	108	54	54				6/108		
	0501551B	PHP										
36	0500891B		4	72	36	36				4/72		
	0500761B											
			14	252	126	126				14/252		
37	0501721B	Python	6	108	54	54					6/108	
38	0599992B		2	36	18	18	1 5 , 20 1					
			8	144	72	72					8/144	
			113	2018	1083	935	26/407	26/483	24/452	22/416	14/260	
			140	2600	1083	1517	26/463	26/483	24/452	26/488	21/378	28/336

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4 56 56 0 28/56

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