1. 1-1 1
2. 1-2 6
3. 1-3 12
4. 1-4 18
5. 1-5 23
6. 1-6 29
7. 1-7 34
8. 1-8 40
9. 1-9 46
10. 1-10 51
11. 1-11 57
12. 1-12 62
13. 1-13 67
14. 1-14 72
15. 1-15 77
16. 1-16 82
17. 1-17 88
18. 1-18 93
19. 1-19 99
20. 1-20 104

21. 2-1 109
22. 2-2 115
23. 2-3 121
24. 2-4 127
25. 2-5 134
26. 2-6 140
27. 2-7 147
28. 2-8 153
29. 2-9 160
30. 2-10 167

31. 3-1 Windows Server 174
32. 3-2 Windows Server 177
33. 3-3 Windows Server 180

34. 3-4 Windows Server 184
35. 3-5 Windows Server 187
36. 3-6 Windows Server 191
37. 3-7 Windows Server 194
38. 3-8 Windows Server 198
39. 3-9 Windows Server 201
40. 3-10 Windows Server 204
41. 3-11 Linux 0.000008871 0 595.1

1. 1-1

1

A

I P

1 VLAN					
VLAN					
VLAN10		52	192.168.1.0	192.168.1.62	255.255.255.192
VLAN20		48	192.168.1.64	192.168.1.126	255.255.255.192
VLAN30		32	192.168.1.128	192.168.1.190	255.255.255.192
VLAN40		16	192.168.1.192	192.168.1.254	255.255.255.192

2 VLAN		
VLAN		
VLAN1	192.168.2.1	255.255.255.192

12

IP ssh version 2

S1

Authorized access only.Violators will be prosecuted to the full extent of the law. 3

Banner motd # Authorized access only.Violators will be prosecuted to the full extent of the law.#

3

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vlan 26

S1 vlan vlan10 vlan20 vlan30 vlan40 4

S2 vlan vlan10 vlan20 vlan30 vlan40 4

S3 vlan vlan10 vlan20 vlan30 vlan40 4

S2 F0/11-15 vlan10 F0/16-20 vlan20 4

S3 F0/11-15 vlan30 F0/16-20 vlan40 4

S1 F0/1 F0/2 S2 F0/1 F0/3 t runk 4

S3 F0/2 F0/3 t runk 2

9

S1 9

vlan 10

S1 SVI IP

VLAN 10

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e:\ \ \J1-4\

show running-config

TXT

S1 S2 S3 e:\ \ \J1-4*.txt S1

.docx TXT

U

2

1		4	CPU 4 2.0GHZ 4GB	
2		1	100Mbps	packet tracer
3		2	100Mbps	packet tracer

8	S3	VLAN	vlan	4

9

1	S1			9

vlan 10

1	S1			2
2	S1	SVI	SVI IP 1 3	8

5

1			3
2			2

10

1			4
2			3
3			3

2. 1-2

1

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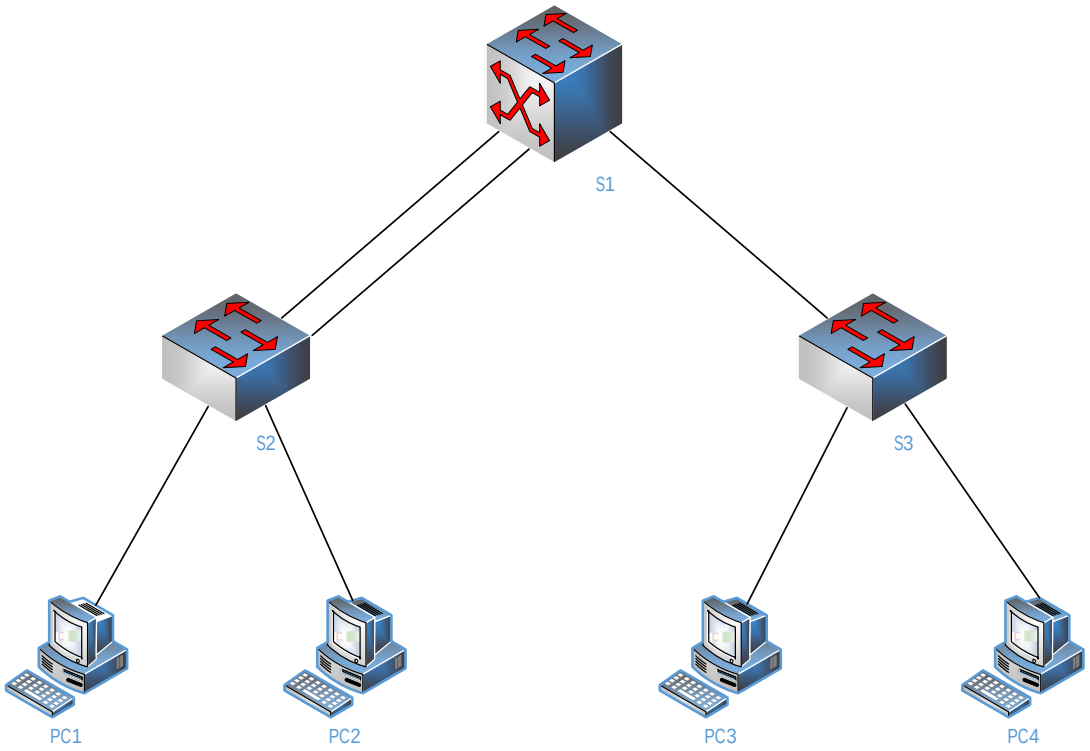
IP

DHCP IP A

172.16.10.0/26 vlan

IP

A



I P

1 VLAN				
VLAN				
VLAN10		172.16.10.0	172.16.10.62	255.255.255.192
VLAN20		172.16.10.64	172.16.10.126	255.255.255.192
VLAN30		172.16.10.128	172.16.10.190	255.255.255.192
VLAN40		172.16.10.192	172.16.10.254	255.255.255.192
2 VLAN				
VLAN				
VLAN1	172.16.11.1		255.255.255.192	
3 PC IP				
PC	IP			
PC1			255.255.255.192	
PC2			255.255.255.192	
PC3			255.255.255.192	
PC4			255.255.255.192	

10

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3

S1 1 S2 1 S1 2 S2 2

S1 3 S3 1 3

30

30

S1 S1 S2 S2

S3 S3 6

S1 CONSOLE XYZ

123456 6

S1 IP TELNET ,

XYZ 12

S1

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vlan 20

S1 vlan vlan10 vlan20 vlan30 vlan40 vlan10 caiwubu vlan20

show running - config

TXT

S1 S2 S3 e: \

\ \ J1- 4\ *.txt S1

.docx TXT

U

2

1		4	CPU 4 2.0 GHZ 4GB	
2		1	100Mbps	packet tracer
3		2	100Mbps	packet tracer

1	PC	Windows 7	
2	packet tracer	6.0	6.0
3		Microsoft Office 2010	
4		Visio2010	packet tracer ppt

3

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4

10

1			4
2			3
3		1 1	3

30

1	S1			2
2	S1	Console		3
3	S1			3
4	S1	TELNET	ip 4 VTY TELNET 6 VTY 2	12
5	S1			3
6	S1			3
7	S2			2
8	S3			2

vlan 20

1	S1	VLAN	4 vlan	6
2	S1	TRUNK	TRUNK	3
3	S2	VLAN	2 vlan	2
4	S2	TRUNK	TRUNK	2
5	S2	VLAN	vlan 1 1	2
6	S3	VLAN	2 vlan	2
7	S3	TRUNK	TRUNK	1
8	S3	VLAN	vlan 1 1	2

12

1	S1		F0/1-2 TRUNK F0/1 F0/2 channel-group2 1 2	6
2	S2		F0/1-2 TRUNK F0/1 F0/2 channel-group2 1 2	6

DHCP 13

1	S1	SVI	SVI 1 1	4
2	S1	DHCP	DHCP 2 vlan ip vlan 1 1	9

5

1			3
2			2

10

1			4
2			3
3			3

3. 1-3

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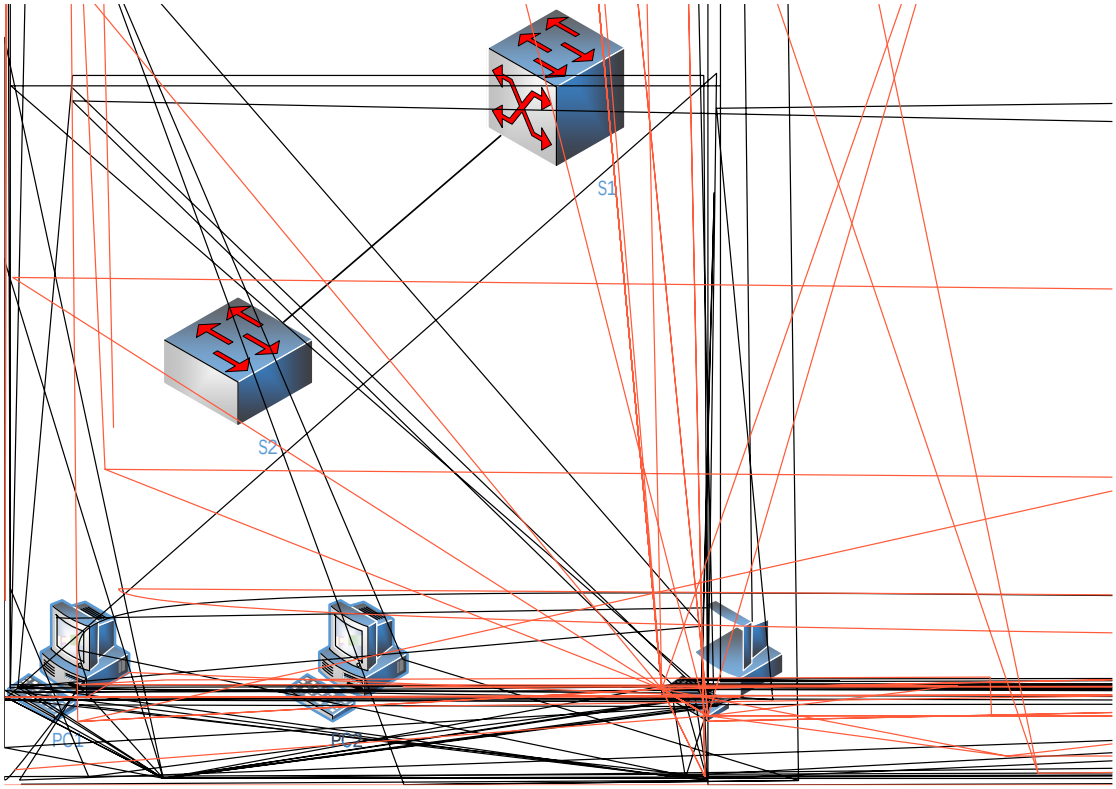
A 180



I P

1 VLAN			
VLAN		I P	
VLAN10		172.16.11.62	255.255.255.192
VLAN20		172.16.1 1.126	255.255.255.192
VLAN30		172.16.1 1.190	255.255.255.192
VLAN40		172.16.1 1.254	255.255.255.192
2 VLAN			
VLAN			
VLAN1		172.16.12.1	255.255.255.192
3 PC IP			
PC	IP		
PC1	172.16.11.2		255.255.255.192
PC2	172.16.11.66		255.255.255.192
PC3	172.16.11.130		255.255.255.192
PC4	172.16.11.194		255.255.255.192

10

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4

3

S1 1 S2 1 S1 2 S3 1

S2 2 S3 2 3

30

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S1 S1 S2 S2

S3 S3 6

S1 CONSOLE ABCD

123456 6

S1 IP SSH :

cisco.com Admin xyz 1024 SSH 2

12

S1

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prosecuted to the full extent of the law. 3

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vlan 35

S1 vlan vlan10 vlan20

vlan30 vlan40 vlan10 caiwubu vlan20

shichangbu vlan30 yanfabu vlan40 xingzhengbu 8

S2 vlan10 vlan20 F0/5-10 vlan10

F0/11-14 vlan 20 6

S3 vlan30 vlan40 F0/ 5-10 vlan30

F0/11-14 vlan40 6

S1 F0/1 F0/2 S2 F0/1 F0/2

t runk 6

S3 F0/1 F0/2 t runk 3

S1 SVI I P 6

10

S1 5

S1 5

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e: \ \ \ J1-4\

show running-config

TXT S1

S2 S3 e: \ \ \ J1-4\ *.txt

S1

.docx TXT

U

2

1		4	CPU 4 2.0GHZ 4GB	
2		1	100Mbps	packet tracer
3		2	100Mbps	packet tracer

1	PC	Windows 7	
2	packet tracer	6.0	6.0
3		Microsoft Office 2010	
4		Visio2010	packet tracer ppt

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4

10

1			4
2			3
3		1 1	3

30

1	S1			2
2	S1	Console		3
3	S1			3

4	S1	SSH	I P 3 1 2 3 SSH 1 VTY SSH 2	12
5	S1			3
6	S1			3
7	S2			2
8	S3			2

vlan 35

1	S1	VLAN	4 vlan	8
2	S1	TRUNK	TRUNK	3
3	S1	SVI	I P	6
4	S2	VLAN	2 vlan	3
5	S2	TRUNK	TRUNK	3
6	S2	VLAN	vlan 1 1.5	3
7	S3	VLAN	2 vlan	3
8	S3	TRUNK	TRUNK	3
8	S3	VLAN	vlan 1 5	3

1	S1			5
2	S1			5

5

1			3
2			2

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1			4
2			3
3			3

4. 1

xyz123 12

S1

Authorized access only.Violators will be prosecuted to the full extent of the law. 3

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vlan 20

S1 vlan vlan10 vlan20 vlan30 vlan40 4

S2 vlan10 vlan20 F0/10-15 vlan10 F0/16-20 vlan 20 4

S3 vlan30 vlan40 F0/ 10-15 vlan30 F0/16-20 vlan40 4

S1 F0/1 F0/2 S2 F0/1 F0/3 F0/4 t runk 5

S3 Port-channel3 t r unk

S3 F0/3-4 TRUNK channel-

group3 8

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show running-config

TXT S1

S2 S3 e:\ \ \J1-4*.txt

S1

.docx TXT

U

2

1		4	CPU 4 2.0GHZ 4GB	
2		1	100Mbps	packet tracer
3		2	100Mbps	packet tracer

1	PC	Windows 7	
2	packet tracer	6.0	6.0
3		Microsoft Office 2010	
4		Visio2010	packet tracer ppt

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10

1			4
2			3
3		1 1	3

30

1	S1			2
2	S1	Console		3
3	S1			3
4	S1	TELNET	ip 4 VTY TELNET 6 VTY 2	12
5	S1			3
6	S1			3
7	S2			2
8	S3			2

vlan 20

1	S1	VLAN	4 vlan	4
2	S1	TRUNK	TRUNK	2
3	S2	VLAN	2 vlan	2
4	S2	TRUNK	TRUNK	3
5	S2	VLAN	vlan 1 1	2
6	S3	VLAN	2 vlan	2
7	S3	TRUNK	TRUNK	3
8	S3	VLAN	vlan 1 1	2

9

1	S1			9

16

1	S2		TRUNK F0/3 F0/4 TRUNK channel-group3 1 2	8
2	S3		TRUNK F0/3 F0/4 TRUNK channel-group3 1 2	8

5

1			3
2			2

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1			4
2			3
3			3

5. 1-5

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I P

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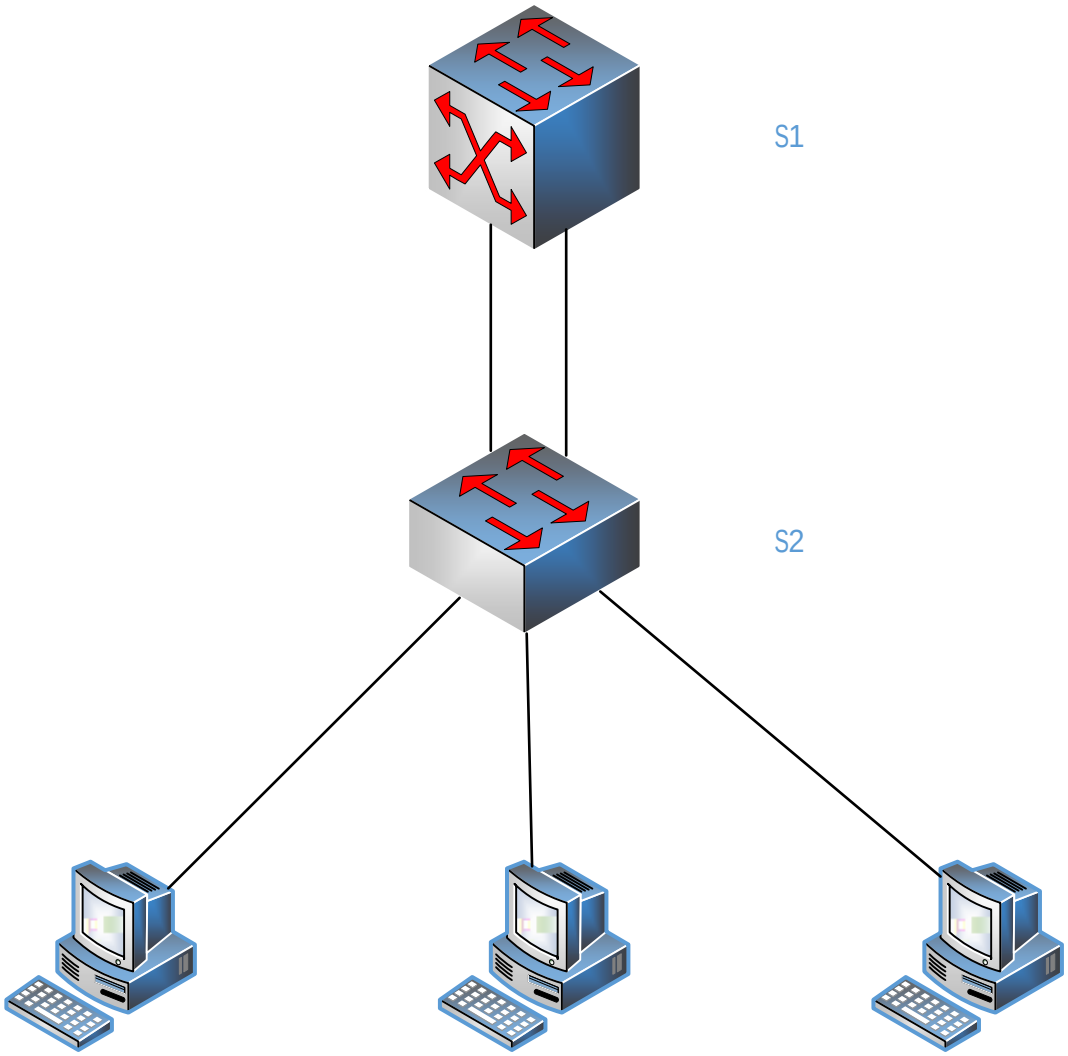

I P

1 VLAN			
VLAN			
VLAN10		172.16.10.254	255.255.255. 0
VLAN20		172.16.11.254	255.255.255. 0
VLAN30		172.16.12.254	255.255.255. 0
2 VLAN			
VLAN			
VLAN1	172.16.13.1		255.255.255.0
3 PC			
PC	IP		

	172.16.10.10	255.255.255. 0
	172.16.11.10	255.255.255. 0
	172.16.12.10	255.255.255. 0

10

4

3

S1 1 S2 1 S1 2 S2 2

3

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S1 S1 S2 S2 6

S1 CONSOLE abcdef

123456 6

S1 IP SSH :

cisco.com Admin xyz 1024 SSH 2

12

S1

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prosecuted to the full extent of the law. 3

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vlan 29

S1 vlan vlan10 vlan20

vlan30 vlan10 shichangbu vlan20 kaifabu vla n30

xingzhengbu 9

S2 vlan vlan10 vlan20

vlan30 vlan10 shichangbu vlan20 kaifabu vla n30

xingzhengbu 8

S2 F0/5- 9 vlan10 F0/10- 14 vlan 20

F0/15- 19 vlan30 6

S1 SVI I P 6

16

S1 port - channel2

t runk F0/1 F0/2 trunk 8

S2 port - channel2

t runk F0/1 F0/2 trunk 8

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e: \ \ \ J1- 4\

show running- config

6. 1-6

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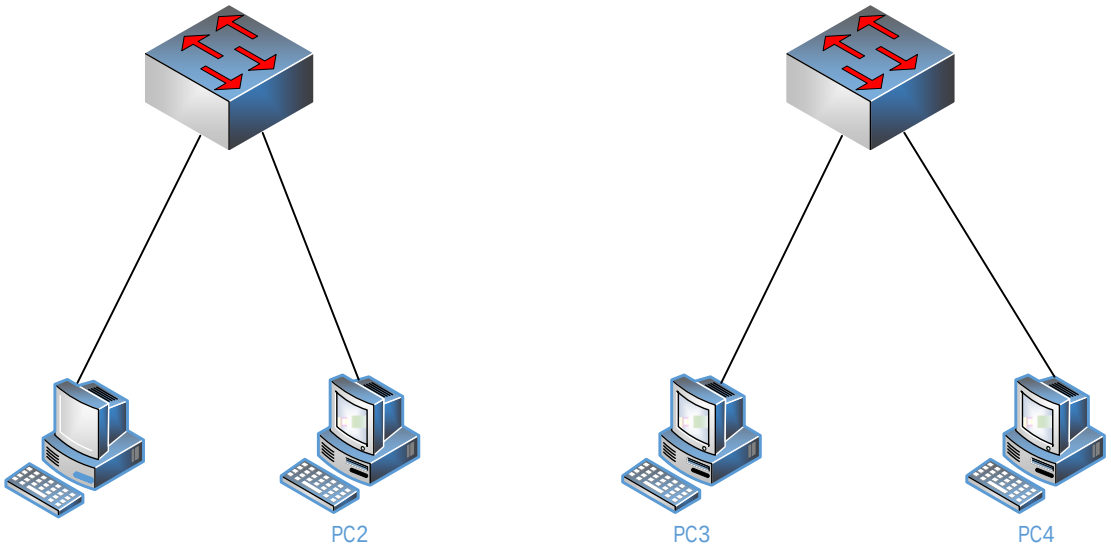

I P

1 VLAN		
VLAN	I P	
Vlan 2	192.168.2.1	255.255.255. 0
Vlan 3	192.168.3.1	255.255.255. 0
Vlan 4	192.168.4.1	255.255.255. 0

Vlan 5	192.168.5.1	255.255.255. 0
2 VLAN		
VLAN		
VLAN1	192.168.1.1	255.255.255.0
3 PC IP		
PC	IP	
PC1	192.168.2.10	255.255.255. 0
PC2	192.168.3.10	255.255.255. 0
PC3	192.168.4.10	255.255.255. 0
PC4	192.168.5.10	255.255.255. 0

10

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4

3

S1 1 S2 1 S1 2 S2 2

S1 3 S3 1 , S1 4

S3 2 3

30

30

S1 S1 S2 S2

S3 S3 6

S1 CONSOLE abcdef

123456 3

S1 IP TELNET ,

abc123 12

S1

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prosecuted to the full extent of the law. 3

3

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vlan 21

S1 vlan vlan2 vlan3 vlan4

vlan5 4

S2 vlan vlan2 vlan3 vlan4

vlan5 4

S3 vlan vlan2 vlan3 vlan4

vlan5 4

S2 F0/5-9 vlan2 F0/10-14 vlan3

S3 F0/5-9 vlan4 F0/10-14 vlan5 5)

S1 SVI IP 4

24

S1 port-channel 2 port-

channel 3 Trunk F0/1 F0/2 trunk

port-channel 2 F0/3 F0/4 Trunk port-channel 3

8

S2 port - channel 2

t runk F0/1 F0/2 trunk 8

S3 port - channel 3

t runk F0/1 F0/2 trunk 8

.docx

e: \ \ \ J1- 4\

show running- config

TXT S1

S2 S3 e: \ \ \ J1- 4\ *.txt

S1

.docx TXT

U

2

1		4	CPU 4 2.0 GHZ 4GB	
2		1	100Mbps	packet tracer
3		2	100Mbps	packet tracer

1	PC	Windows 7	
2	packet tracer	6.0	6.0
3		Microsoft Office 2010	
4		Visio2010	packet tracer ppt

3

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4

10

1			4
2			3
3		1 1	3

30

1 S1 2

1	S1		TRUNK F0/1 F0/2 TRUNK	8
2	S2		TRUNK F0/1 F0/2 TRUNK	8
3	S2		TRUNK F0/1 F0/2 TRUNK	8

5

1			3
2			2

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1			4
2			3
3			3

7. 1-7

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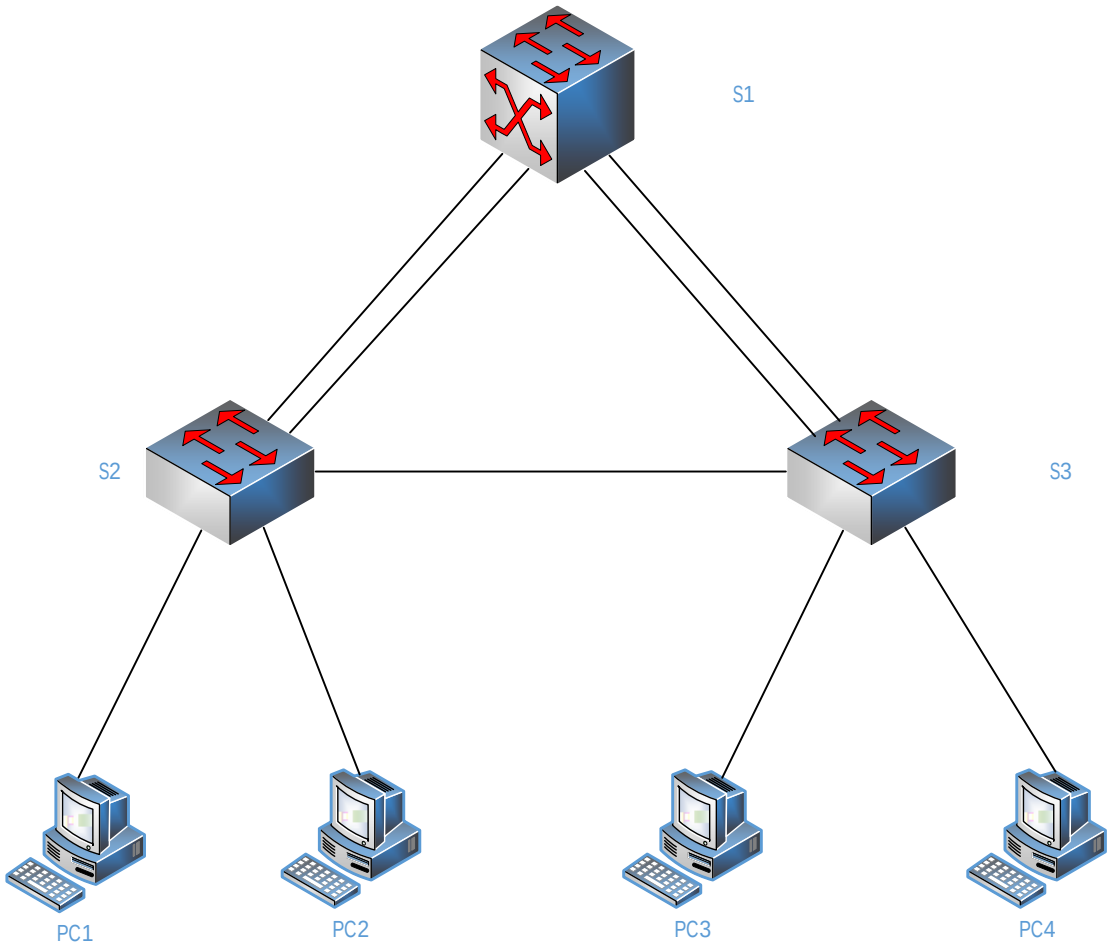

I P

1 VLAN		
VLAN		
Vlan 10	192.168.20.1	255.255.255. 0
Vlan 20	192.168.30.1	255.255.255. 0
Vlan 30	192.168.40.1	255.255.255. 0
Vlan 40	192.168.50.1	255.255.255. 0
2 VLAN		
VLAN		
VLAN1	192.168.10.1	255.255.255.0
3 PC IP		
PC	IP	
PC1	192.168.20.10	255.255.255. 0

PC2	192.168.30.10	255.255.255. 0
PC3	192.168.40.10	255.255.255. 0
PC4	192.168.50.10	255.255.255. 0

10

10

4

3

S1 1 S2 1 S1 2 S2 2

S1 3 S3 1 , S1 4

S3 2 S2 3 S3 3 3

30

30

S1 S1 S2 S2

S3 S3 6

S1 CONSOLE XYZ

123456 6

S1 IP SSH :

cisco.com Admin xyz 1024 SSH 2

12

S1

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prosecuted to the full extent of the law. 3

3

45

vlan 14

S1 vlan vlan10 vlan20 vlan30 vlan40 4

S2 vlan vlan10 vlan20 2

S3 vlan vlan30 vlan40 2

S2 F0/5-9 vlan10 F0/11-15 vlan20

S3 F0/5-10 vlan30 F0/11-15 vlan40 6)

20

S1 port-channel1 port-channel2 trunk F0/1 F0/2 F0/3 F0/4 trunk F0/1 F0/2 channel-group1 F0/3 F0/4 channel-group2 10

S2 port-channel1 trunk F0/1 F0/2 5

S3 port-channel2 trunk F0/1 F0/2 5

6

S1 vlan10 vlan20 vlan30 vlan40 6

vlan 5

S1 VLAN VLAN 4

1

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show running-config

TXT S1

S2 S3 e:\ \ \J1-4*.txt

S1

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U

2

1		4	CPU 4 2.0GHZ 4GB	
2		1	100Mbps	packet tracer
3		2	100Mbps	

			TRUNK F0/1 F0/2 F0/3 F0/4 TRUNK	
2	S2		TRUNK F0/1 F0/2 TRUNK	5
3	S2		TRUNK F0/1 F0/2 TRUNK	5

6

1	S1			6

vlan 5

1	S1	SVI	SVI IP	4
2	S1			1

5

1			3
2			2

10

1			4
2			5
3			3

8. 1-8

1

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PC3	192.168.30.100	255.255.255.0
PC4	192.168.10.110	255.255.255.0
PC5	192.168.20.110	255.255.255.0
PC6	192.168.30.110	255.255.255.0

10

10

4

3

S1 1 S2 1 S1 2 S3 1

S2 2 S3 2 3

30

30

S1 S1 S2 S2

S3 S3 3

S1 CONSOLE ABCDE

123456 3

S1 IP TELNET ,

ABC 12

S1

Authorized access only.Violators will be

prosecuted to the full extent of the law. 3

3

45

VTP vlan 21

S1 3 vlan vla n100 vlan200

vlan300 3

vtp found admin 6

S1 server S2 S3

client 3

Trunk 3

S2 F0/3- 6 vlan100 F0/7- 9

vlan200 F0/10- 12 vlan 300 3

S3 F0/3- 6 vlan100 F0/7- 9

vlan200 F0/10- 12 vlan 300 3

show running - config

TXT S1

S2 S3 e: \ \ \ J1- 4\ *.txt

S1

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U

2

1		4	CPU 4 2.0GHZ 4GB	
2		1	100Mbps	packet tracer
3		2	100Mbps	packet tracer

1	PC	Windows 7	
2	packet tracer	6.0	6.0
3		Microsoft Office 2010	
4		Visio2010	packet tracer ppt

3

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4

30

1	S1			2
2	S1	Console		3
3	S1			3
4	S1	TELNET	ip 4 VTY TELNET 6 VTY 2	12
5	S1			3
6	S1			3
7	S2			2
8	S3			2

VTP vlan 21

1	S1	VLAN	3 vlan	3
2	S1	VTP		1
3	S1	VTP		1
4	S1	VTP		1
5	S1	Trunk		1
6	S2	VTP		1
7	S2	VTP		1
8	S2	VTP		1
9	S2	Trunk		1
10	S2	VLAN	vlan 1 1	3
11	S3	VTP		1
12	S3	VTP		1
13	S3	VTP		1
14	S3	VLAN	vlan 1 1	3
15	S3	Trunk		1

6

1	S1			6

vlan 18

1	S1	SVI	SVI IP	12
2	S1			6

5

Vlan 11		172.16.11.1	255.255.255. 0
Vlan 12		172.16.12.1	255.255.255. 0
Vlan 13		172.16.13.1	255.255.255. 0
2 VLAN			
VLAN			
VLAN 1	172.16.14.1		255.255.255.0
3 PC IP			
PC	IP		
PC1	172.16.10.10		255.255.255. 0
PC2	172.16.11.10		255.255.255. 0

S1 CONSOLE ABCED

123456 6

S1 IP

vlan 17

A SVI I P

vlan 12

S1 5

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show running-config

TXT S1

S2 S3 e:\ \ \J1-4*.txt

S1

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U

2

1		4	CPU 4 2.0GHZ 4GB	
2		1	100Mbps	packet tracer
3		2	100Mbps	packet tracer

1	PC	Windows 7	
2	packet tracer	6.0	6.0

3		Microsoft Office 2010	
4		Visio2010	packet tracer ppt

3

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4

10

1			4
2			3
3		1 1	3

30

1	S1			2
2	S1	Console		3
3	S1			3
4	S1	SSH	IP 3 1 2 3 SSH 1 VTY SSH 2	12
5	S1			3
6	S1			3
7	S2			2
8	S3			2

vlan 28

1	S1	VLAN	4 vlan	

			1 1	

VLAN 17

1	S1	SVI	1 3	12
2	S1			5

5

1			3
2			2

10

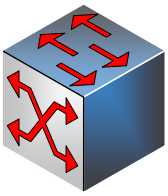
1			4
2			3
3			3

10. 1-10

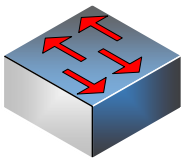
1

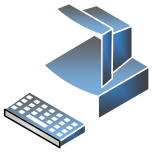
A

A



S1





PC C

I P

1 VLAN				
VLAN				
Vlan 10		192.168.10.0	192.168.10.1	255.255.255.192
Vlan 20		192.168.10.64	192.168.10. 65	255.255.255.192
Vlan 30		192.168.10.128	192.168.10.1 29	255.255.255.192
2 VLAN				
VLAN				
Vlan 1	192.168.10.193		255.255.255.192	
3 PC IP				
PC	IP			
PC A			255.255.255.192	
PC B			255.255.255.192	

PC C		255.255.255.192

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4

3

S1 1 S2 1 , S1 2 S3 1

S1 3 S4 1 3

30

30

S1 S1 S2 S2

S3 S3 S4 S4 8

S1 CONSOLE clas s

cisco 6

S1 IP SSH :

cisco.com Admin xyz 1024 SSH 2

12

4

45

vlan 24

S1 vlan vlan10 vlan20

vlan30 vlan10 shichangbu vlan20 yanfabu vlan30

xingzhengbu 6

S2 vlan vlan10 S3 vlan

vlan20 S4 vlan vlan30 S2

F0/5-10 vlan10 S3 F0/5-10 vlan20

S4 F0/5-10 vlan30 12

Trunk 6

DHCP 21

S1 SVI IP SVI vlan

6

S1 DHCP vlan 10

shichangbu DNS 202.103.96.68 vlan 20

yanfabu DNS 202.103.96.68 vlan 30

xingzhengbu DNS 202.103.96.68

12

DHCP 192.168.10.2-192.168.10.12 IP

3

.docx

e:\ \ \J1-4\

show running-config

TXT S1

S2 S3 e:\ \ \J1-4*.txt

S1

.docx TXT

U

2

1		3	CPU 4 2.0GHZ 4GB	
2		1	100Mbps	packet tracer
3		3	100Mbps	packet tracer

1	PC	Windows 7	
2	packet tracer	6.0	6.0
3		Microsoft Office 2010	
4		Visio2010	packet tracer ppt

3

90

4

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1			4
2			3
3		1 1	3

30

1	S1			2
2	S1	Console		3
3	S1			3
4	S1	SSH	IP 3 1 2 3 SSH 1 VTY SSH 2	12
5	S1			4
6	S2			2
7	S3			2
8	S4			2

vlan 24

1	S1	VLAN	3 vlan	6
2	S1	Trunk	Trunk	3
3	S2	VLAN	1 vlan	2
4	S2	Trunk	Trunk	1
5	S2	VLAN	vlan	2
6	S3	VLAN	1 vlan	2
7	S3	Trunk	Trunk	1
8	S3	VLAN	vlan	2
9	S4	VLAN	1 vlan	2
10	S4	Trunk	Trunk	1
11	S4	VLAN	vlan	2

DHCP 21

1	S1	SVI	1 2	6
2	S1	DHCP	DHCP DNS 1 2	12
3	S1			3

5

1			3
2			2

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1			4
2			3
3			3

11. 1-11

1

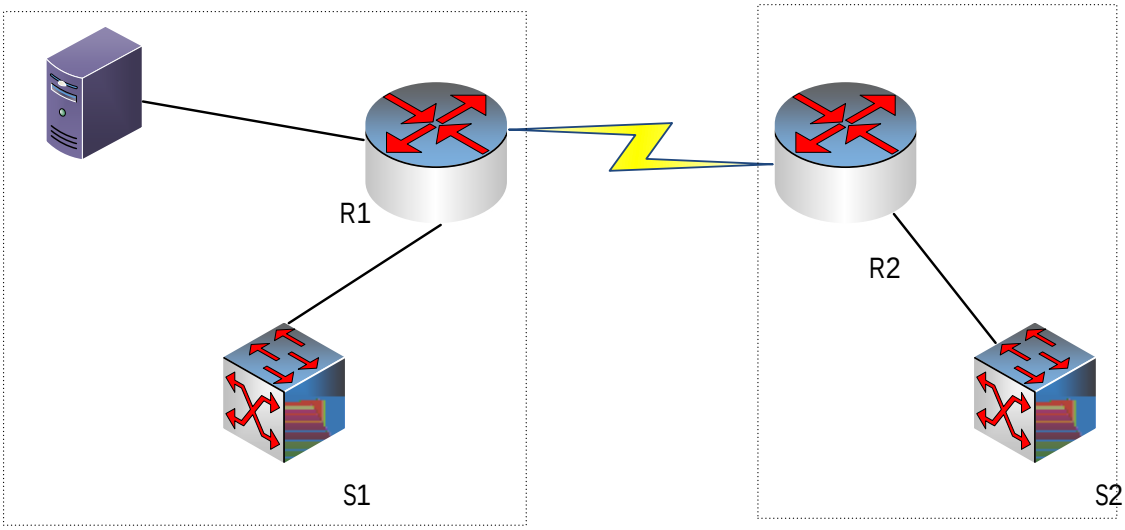
ABC

VLAN

IP IP IP

202.0.0.0/255.255.255.252

172.16.0.0/16 192.168.1.0/24



IP

1 VLAN

Vlan			IP	
Vlan10		52	192.168.1.126	255.255.255.128
Vlan20		48	192.168.1.254	255.255.255.128
2				
		IP		
		202.0.0.1		255.255.255.252
		202.0.0.2		255.255.255.252
3				
		IP		
		172.16.10.1		255.255.255.0
S1		172.16.10.2		255.255.255.0
4				
		IP		
Vlan10		192.168.1.254		255.255.255.0
Vlan20		192.168.2.254		255.255.255.0
5		IP		
		IP		
		172.16.11.254		255.255.255.0
		172.16.11.1		255.255.255.0

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R1 R2 - 3

3

R1 serial R2 serial R1

G0/1 S1 1 R1 G0/0

R2 G0/1 S2 1 4

30

14

S1 S1 S2 S2 2

S1 IP 2

S2 vlan vlan10 vlan20 2-6

vlan10 7-11 vlan20 8

S2 Trunk 2

16

R1 R1 R2 R2 4

R1 R2 IP DCE

128000 6

R1 Telnet admin@123

test@123 R1 6

45

16

R2 G0/1 G0/1.1 G0/1.2

vlan10 vlan20 10

G0/1.1 G0/1.2 IP vlan10 vlan20

6

OSPF 24

R1 OSPF

0 Router ID 1.1.1.1

R2 OSPF

0 Router ID 2.2.2.2

S1 OSPF

0 Router ID 3.3.3.3

5

R2 192.168.1.254

S1 R2 192.168.2.254

.docx

e: \ \ \ 1- 11\

show running- config

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4

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1			3
2			3
3			4

14

1	S1			1
2	S2			1
3	S1		IP	2
4	S2	VLAN	2 vlan	4
5	S2	VLAN	vlan	4
5	S2	Trunk	Trunk	2

16

¿ '				
1	R1			2
2	R2			2
3	R1		IP	4
4	R2		IP	2
3	R1	Telnet	Telnet 2 2	4
4	R1		2	2

1	R1	OSPF	OSPF 1 Router ID 1 6 2	10
2	R2	OSPF	OSPF 1 Router ID 1 6 2	10
3	S1	OSPF	OSPF 1 Router ID 1 2	4

5

1	1	PC1	OA		172.16.1.254	2.5
2	2	PC2		R1	172.16.2.1	2.5

5

1			3
2			2

10

1			4
2			3
3			3

12. 1-12

1

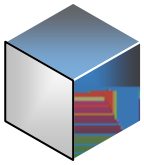
ABC vlan

OA vlan OA

172.16.0.0/16 OSPF

loopback 0 internet

PC1



IP

1 VLAN			
		IP	
PC1	Vlan10	172.16.4.3	255.255.255.0
PC2	Vlan20	172.16.3.3	255.255.255.0
OA	Man30	172.16.1.3	255.255.255.0
2			
		IP	
R1		172.16.2.1	255.255.255.252
S1		172.16.2.2	255.255.255.252
3			
		IP	
SVI	vlan10	172.16.4.254	255.255.255.0
SVI	Vlan20	172.16.3.254	255.255.255.0
SVI	vlan30	172.16.1.254	255.255.255.0

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3

R1 G0/1 S1 G0/1 S1
G0/2 S2 G0/2 S1 F0/24 OA
S2 F0/1 F0/10 PC1 PC2 4
30
16
S1 S2 S1 S1
S2 S2 2
S1 3 vlan vlan10 vlan20 vlan30
F0/24 vlan30 OA

S1 OSPF 10

0 Router ID 2.2.2.2

R1 l oopback 0 20.0.0.2

i nternet Internet OSPF

10

PC1 OA 172.16.1.254 3

PC2 R1 172.16.2.1 3

OA ssh R1 172.16.2.1 4

.docx

e:\ \ \1-12\

show running-config

TXT S1

S2 R1 e:\ \ \1-12*.txt

R1

.docx TXT

U

2

1		3	CPU4 2.0GHZ 4GB	

2		1		Packet Tracer Cisco 2911
3		2	100Mbps	Packet Tracer Cisco 3560

1		Windows 7	
2	Packet Tracer	6.0	6.0
3		Microsoft Office 2013	

3

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1			3
2			3
3			4

14

1	S1			1
2	S2			1
3	S1	VLAN	vlan vlan 1 1	4
4	S2	VLAN	vlan vlan 1 1	4
5	S1	Trunk	Trunk	1
6	S2	Trunk	Trunk	1
7	S1	SVI IP	IP 1 1	4

14

1	R1			2
2	R1			3
3	R1	Console	Console	3
	R1	SSH	SSH	4
4	R1	IP	IP	2

35

1	R1	OSPF	OSPF OSPF router ID	6
2	R1	OSPF	OSPF	3
3	S1	OSPF	OSPF router ID	18
4	S1	OSPF	OSPF	3
5	R1		OSPF	5

10

1	1	PC1 OA 172.16.1.254	3
2	2	PC2 R1 172.16.2.1	3
3	3	OA ssh R1 172.16.2.1	4

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1			3
2			2

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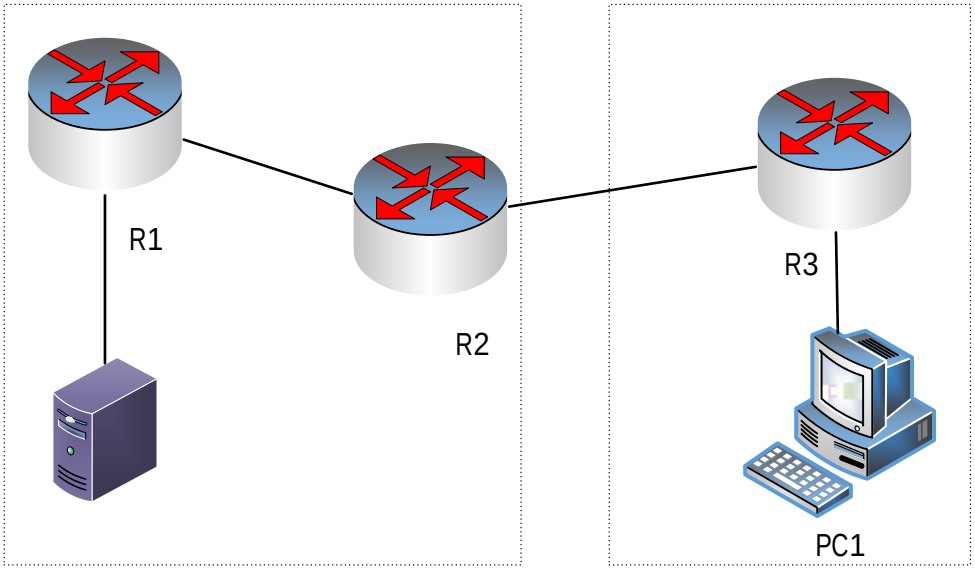
1			4
2			3
3			3

13. 1-13

FTP

192.168.0.0/16

202.0.0.1/30 OSPF



IP

1	R1 Server		
		IP	
	R1	192.168.2.1	255.255.255.0
		192.168.2.10	255.255.255.0
2	R1	R2	
		IP	
	R1	192.168.1.1	255.255.255.252
	R2	192.168.1.2	255.255.255.252
3	R2	R3	
		IP	
	R2	202.0.0.1	255.255.255.248
	R3	202.0.0.2	255.255.255.248
4	R3 PC1		
		IP	
	R3	201.0.0.1	255.255.255.0
PC1		201.0.0.2	255.255.255.0

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3

R1 G0/1 R2 G0/1 R2
G0/2 R3 G0/2 R1 G0/0
PC1 R3 G0/0 4

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R1 R2 R3
R1 R2 R3 6

R2 console abcd@123
test@123 Telnet admin@123 10

R1 R2 R3 IP
9

FTP packet tracer FTP
FTP cisco R1 R2 running-
config FTP R1.txt
R2.txt 5

45

OSPF 20

OSPF R1 OSPF
0 Router ID 1.1.1.1 R2

OSPF 0 Router ID 2.2.2.2

R2 OSPF

NAT 15

R2 PAT

1 acl NAT

192.168.0.0/22 10

R2

202.0. 0.3 5

10

R3 202.0.0.2 3

PC1 NAT 202.0.0.3

3

R1 R2 running - config

R1.txt R2.txt 4

.docx

e: \ \ \ 1- 13\

show running- config

TXT R1

R2 R3 e: \ \ \ 1- 13\ * .txt

R1

.docx TXT

U

2

1		2	CPU4 2.0GHZ 4GB	
2		3		Packet Tracer Cisco 2911

1		Windows 7	
2	Packet Tracer	6.0	6.0
3		Microsoft Office 2013	

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1			3
2			3
3			4

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1	R1			2
2	R2			2
3	R3			2
4	R2	Console	Console	3
5	R2			3
6	R2	Tel net	Tel net	4
7	R1		IP	3
8	R2		IP	3
9	R3		IP	3
10	R2	ftp	f tp	5

OSPF 20

1	R1	OSPF	OSPF router ID	10
2	R2	OSPF	OSPF router ID	8
3	R2			2

NAT 15

1	R2	PAT	PAT ACL NAT /	10
2	R2	NAT	NAT	5

10

1	1	R3 202.0.0.2	3
2	2	PC1 NAT 202.0.0.3	3
3	3	R1 R2 running-config	4

5

1			3
2			2

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1			4
2			3
3			3

14. 1-14

1

ABC

IP Web

TFTP NAT Web TFTP

172.16.0.0/16

202.0.0.1/30 OSPF

IP

1	R1 Server		
		IP	
	R1	172.16.0.1	255.255.255.0
		172.16.0.2	255.255.255.0
2	R1	R2	
		IP	
	R1	172.16.1.1	255.255.255.252
	R2	172.16.1.2	255.255.255.252
3	R2	R3	
		IP	
	R2	200.0.0.1	255.255.255.248
	R3	200.0.0.2	255.255.255.248
4	R3 PC1		
		IP	
	R3	201.0.0.1	255.255.255.0
PC1		201.0.0.2	255.255.255.0

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R1 G0/1 R2 G0/1 R2

G0/2 R3 G0/2 R1 G0/0

PC1 R3 G0/0 4

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30

R1 R2 R3 R1

R2 R3 R1 R2 R3 6

R2 console abcd@123

test@123 SSH admin hnswxy@123

10

R1 R2 R3 IP

9

TFTP packet tracer TFTP

R2 running-config TFTP

R2.txt 5

45

OSPF 20

OSPF R1 OSPF

0 Router ID 1.1.1.1 R2

OSPF 0€Router ID@2.2.2.2Ñ ÖR7ü

R2 OSPF

NAT 15

+ Ñ Ö

R1

.docx TXT

U

2

1		2	CPU4 2.0GHZ 4GB	
2		3		Packet Tracer Cisco 2911

1		Windows 7	
2	Packet Tracer	6.0241.01 463.03 Tm 0 g 0	

10	R2	TFTP	Tf tp	5

OSPF 20

1	R1	OSPF	OSPF router ID	10
2	R2	OSPF	OSPF router ID	8
3	R2			2

NAT 15

1	R2	PAT	PAT ACL NAT /	10
2	R2	NAT	NAT	5

10

1	1	R3 201.0.0.1	3
2	2	PC1 Web 200.0.0.1	4
3	3	TFTP R2 running - config	3

5

1			3
2			2

10

1			4
2			3
3			3

15. 1-15

1

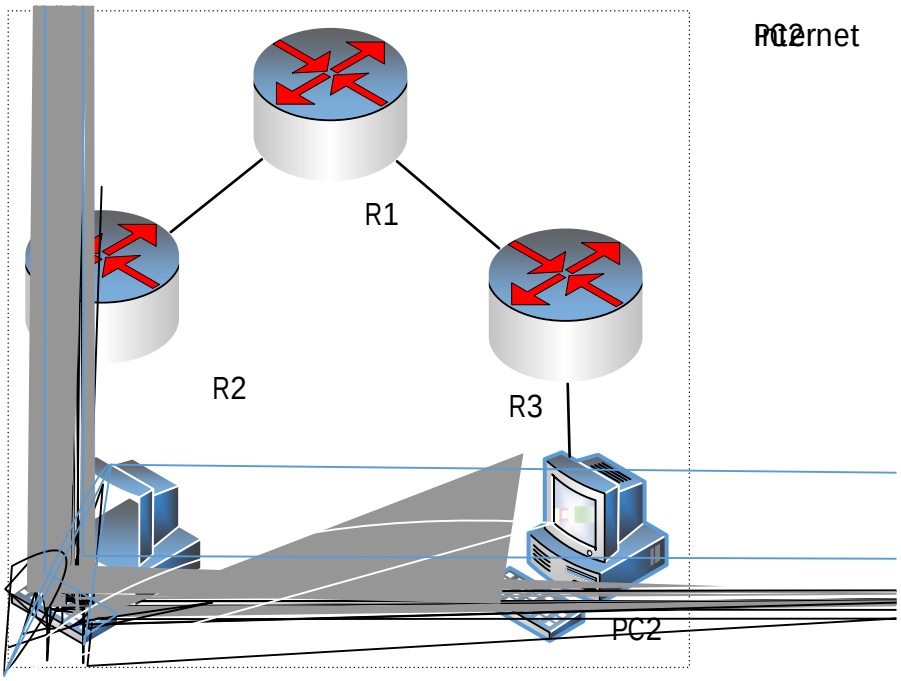
RIP

NAT

I nternet

192.168.0.0/16

202.0.0.1/30



IP

1	R1	R2	
		IP	
	R1	192.168.1.1	255.255.255.252
	R2	192.168.1.2	255.255.255.252
2	R1	R4	
		IP	
	R1	200.0.0.1	255.255.255.252
	R4	200.0.0.2	255.255.255.252
3	R1	R3	
		IP	
	R1	192.168.1.5	255.255.255.252
	R3	192.168.1.6	255.255.255.252

4 R2

R2	192.168.2.1	255.255.255.0
PC1	192.168.2.10	255.255.255.0
5 R3 PC2		
	IP	
R3	192.168.3.1	255.255.255.0
PC2	192.168.3.10	255.255.255.0

R1 RIPv2

NAT 10

R1 PAT

1 acl NAT

192.168.0.0/22

10

PC1 Internet R4 200.0.0.2 3

PC2 Internet R4 200.0.0.2 3

PC1 Telnet R1 4

.docx

e:\ \ \1-15\

show running-config

TXT R1

R2 R3 R4 e:\ \ \1-15*.txt

R1

.docx TXT

U

2

1		2	CPU4 2.0GHZ 4GB	
2		3		Packet Tracer Cisco 2911

1		Windows 7	
2	Packet Tracer	6.0	6.0
3		Microsoft Office 2013	

3

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4

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1			3
2			3
3		4	4

30

1	R1			2
2	R1			3
3	R1	Console	Console	4
4	R1	Tel net	Telnet	4
5	R1	IP		3
6	R2			2
7	R2	IP		2
8	R3			2
9	R3	IP		2
10	R4			2
11	R4	IP		1
12	R1	IOS		3

RIPv2 25

1	R1	RIP	2 network	7

2	R2	RIP	2 network	8
3	R3	RIP	2 network	8
4	R1			2

NAT 10

1	R1	NAT	PAT ACL NAT /	10

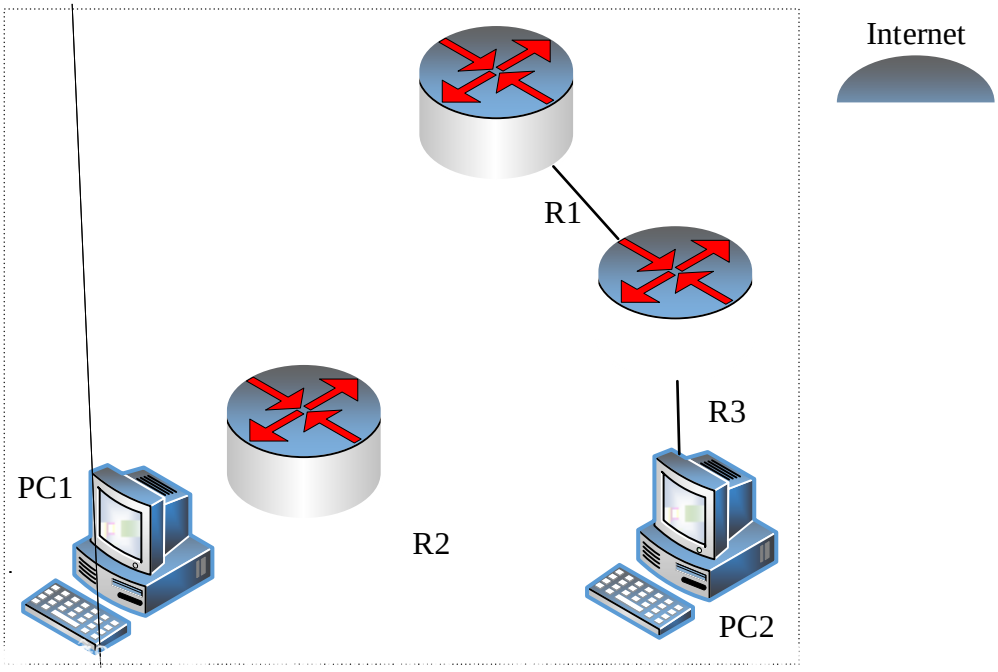
10

1

1 2

TFTP PAT

10.0.0.0/16 202.0.0.1/30



IP

1 R1 R2		
	IP	
R1	10.0.0.1	255.255.255.252
R1	10.0.0.5	255.255.255.252
R2	10.0.0.2	255.255.255.252
R2	10.0.0.6	255.255.255.252
2 R1 R4		
	IP	
R1	200.0.0.1	255.255.255.252
R4	200.0.0.2	255.255.255.252
3 R1 R3		
	IP	

R1	10.0.0.9	255.255.255.252
R3	10.0.0.10	255.255.255.252
4 R1		
	IP	
R1	10.0.1.1	255.255.255.0
	10.0.1.10	255.255.255.0
5 R2 PC1		
	IP	
R2	10.1.0.1	255.255.255.0

PC1

8

R1 R2 R3 R4 IP 11

TFTP packet tracer TFTP

R1 running - config TFTP

R1.txt 3

45

22

R1 R2 R3 R4 (4

)

R1 1

metric 100

1 i nternet 1

1 2

metric 100 4

8

NAT 10

R1 PAT

1 acl NAT

10.0.0.0/14

13

PC1 In ternet R4 200.0.0.2 2

PC1

PC1 PC2

R1 running-config

\1-16\

show running-config

TXT R1

e:\ \ \1-16*.txt

R1

.docx TXT

2	CPU4 2.0GHZ 4GB	
3		

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4

10

1			3
2			3
3			4

30

1	R1			2
2	R1			2
3	R1	Console	Console	2
4	R1	SSH	SSH	4
5	R1	IP		5
6	R2			2
7	R2	IP		3
8	R3			2
9	R3	IP		2
10	R4			2
11	R4	IP		1
12	R1		TFTP	3

22

1	R1			8
2	R2			12
3	R3			2

NAT 10

1	R1	NAT	PAT ACL NAT /	10

13

1	1	PC1 Internet R4 200.0.0.2	2
2	2	PC1	4
3	3	PC1 PC2	4

4	4	TFTP R1 running - config R1.txt	3

5

1			3
2			2

10

1			4
2			3
3			3

17. 1-17

1

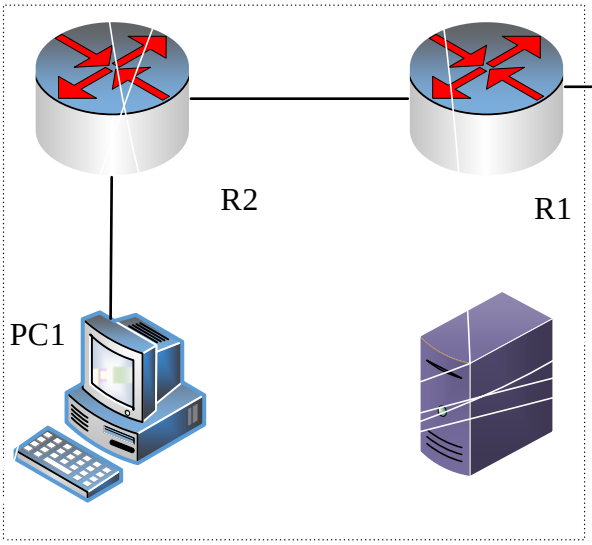
ABC IOS

TFTP

NAT I nternet

192.168.0.0/16

202.0.0.1/30 RIP



IP

1	R1	R2	
		IP	
	R1	192.168.0.1	255.255.255.0
	R2	192.168.0.2	255.255.255.0
2	R1		
		IP	
	R1	192.168.1.1	255.255.255.0
		192.168.1.10	255.255.255.0
2	R2	PC1	
		IP	
	R2	192.168.2.1	255.255.255.0
PC1		192.168.2.10	255.255.255.0
3	R1	R3	
		IP	
	R1	200.0.0.1	255.255.255.252
	R3	200.0.0.2	255.255.255.252
3	R3	PC2	
		IP	
	R3	202.0.0.1	255.255.255.0
PC2		202.0.0.10	255.255.255.0

10

10

R1 R3 - 3

3

R1 G0/1 R2 G0/1 R1

0 R3 0 R1 1

R3 1 R1 G0/0 R2 G0/0 PC1

R3 G0/0 PC2 4

30

30

R1 R2 R3

R1 R2 R3 3

R1 console abcd@123

te st@123 Telnet admin@123 8

R1 R3 1

4

R1 R2 R3

IP 9

TFTP R1 IOS

TFTP R1.bin 6

45

RIP 25

R1 R2 RIP

R1 RIPv2

NAT 10

R1 NAT

1 acl NAT

192.168.0.0/22

10

PC1 PC3 202.0.0.10 3

PC3 202.0.0.10 3

TFTP R1 IOS

R1.bin 4

.docx

e:\ \ \1-17\

show running-config

TXT R1

R2 R3 e:\ \ \1-17*.txt

R1

.docx TXT

U

2

1		2	CPU4 2.0GHZ 4GB	
2		4		Packet Tracer Cisco 2911

1		Windows 7	
2	Packet Tracer	6.0	6.0
3		Microsoft Office 2013	

3

90

4

10

1			3
2			3
3			4

30

1	R1			1
2	R1			2
3	R1	Console	Console	2
4	R1	Telent	Vty	4
5	R1			2
6	R1	IP		4
7	R1	IOS	IOS	6
8	R2			1
9	R2	IP		2
10	R3			1
12	R3			2
13	R3	IP		3

RIP 20

1	R1	RIP	2 network	13
2	R2	RIP	2 network	10
3	R1			2

NAT 10

1	R2	NAT	NAT pool ACL /	10

10

1	1	PC1 PC3 202.0.0.10	3
2	2	PC3 202.0.0.10	3
3	3	TFTP R1 IOS R1.bin	4

5

1			3
2			2

10

1			4
2			3
3			3

18. 1-18

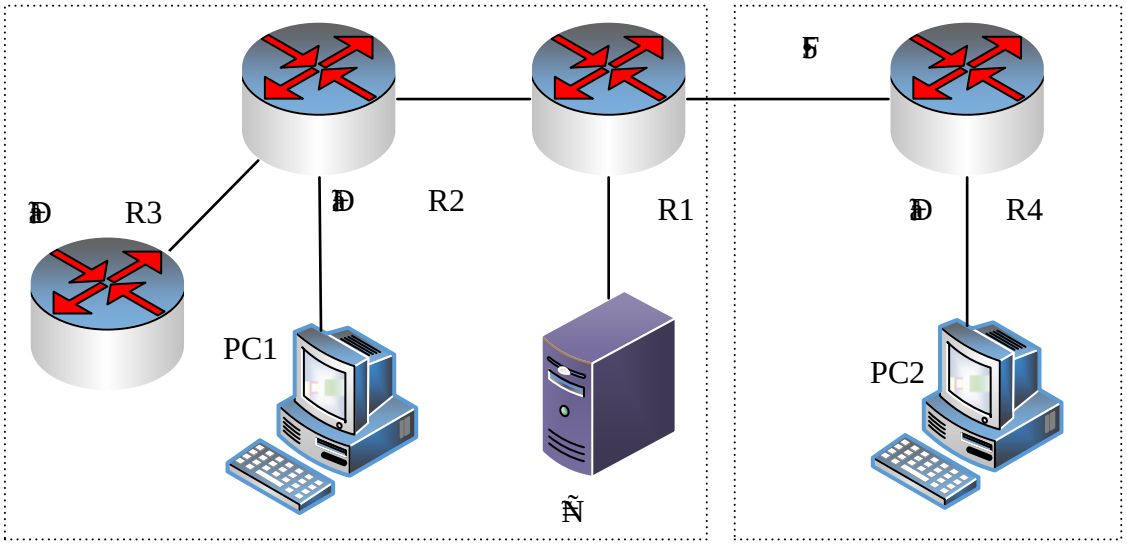
1

ABC NAT

TFTP

192.168.0.0/16

202.0.0.1/30 OSPF



IP

1	R1	R2	
		IP	
	R1	192.168.0.1	255.255.255.252
	R2	192.168.0.2	255.255.255.252
2	R2	R3	
		IP	
	R2	192.168.0.5	255.255.255.252
	R3	192.168.0.6	255.255.255.252
3	R1	R4	
		IP	
	R1	200.0.0.1	255.255.255.248
	R4	200.0.0.2	255.255.255.248
4	R1		
		IP	
	R1	192.168.1.1	255.255.255.0
		192.168.1.10	255.255.255.0
5	R2	PC1	
		IP	
	R2	192.168.2.1	255.255.255.0
PC1		192.168.2.10	255.255.255.0
6	R4	PC2	
		IP	
	R4	200.0.1.1	255.255.255.0
PC2		200.0.1.10	255.255.255.0

10

3

3

R1 G0/0 R4 G0/0 R1
G0/1 R2 G0/1 R2 G0/0 R3
G0/0 R1 G0/2 R2 G0/2 PC1
R4 G0/2 PC2 4

30

30

R1 R2 R3
R4 R1 R2 R3 ISP 4
R2 console abcd@123
test@123 SSH admin hnswxy@123
8

R1 R2 R3 R4 IP 14

TFTP packet tracer TFTP
R1 running - config TFTP
R1.txt 4

45

OSPF 20
R1 OSPF OSPF 100
0 Router ID 1.1.1.1

R2 OSPF OSPF 100

0 Router ID 2.2.2.2

R3 OSPF OSPF 100

0 Router ID 3.3.3.3

OSPF

NAT 15

R1 NAT NAT

NAT 200.0.0.3 -

200.0.0.5 1 NAT

10

PC2 PC2 200.0.1.10 3

PC1 SSH R2 3

FTP R1 running - config

R1.txt 4

.docx

e: \ \ \ 1- 18\

show running-config

TXT R1

R2 R3 R4 e:\ \ \1-18*.txt

R1

.docx TXT

U

2

1		2	CPU4 2.0GHZ 4GB	
2		4		Packet Tracer Cisco 2911

1		Windows 7	
2	packet tracer	6.0	6.0
3		Microsoft Office 2013	

3

90

4

10

1			3
2			3
3			4

30

1	R1			1
2	R1			2
3	R1	Console	Console	2
4	R1	IP		4
5	R1	SSH	SSH	4

6	R2			1
7	R2	IP		4
8	R3			1
9	R3	IP		2
10	R4			1
11	R4	IP		4
12	R2	TFTP	Tftp	4

0SPF 25

1	R1	OSPF	OSPF router ID	10
2	R2	OSPF	OSPF router ID	8
3	R3	OSPF	OSPF router ID	5
4	R2			2

NAT 10

1	R2	NAT	NAT pool ACL /	10

10

1	1	PC2 PC2 200.0.1.10	3
2	2	PC1 SSH R1	3
3	3	TFTP R1 running-config	4

5

1			3
2			2

10

1			4
2			3
3			3

19. 1-19

1

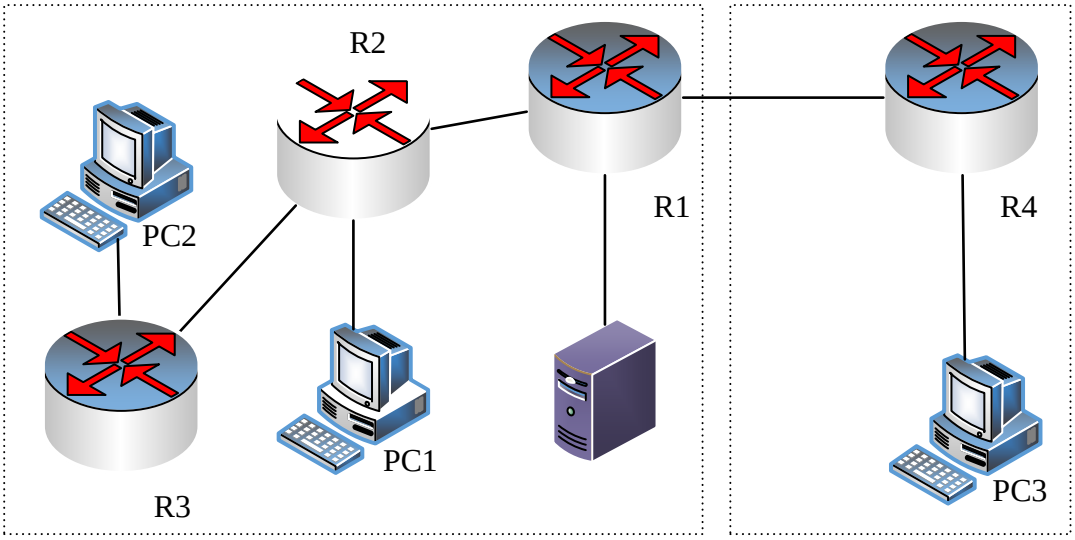
ABC PAT

IOS

TFTP

192.168.0.0/16

202.0.0.1/30 RIP



IP

1	R1	R2	
		IP	
	R1	192.168.0.1	255.255.255.252
	R2	192.168.0.2	255.255.255.252
2	R2	R3	
		IP	
	R2	192.168.0.5	255.255.255.252
	R3	192.168.0.6	255.255.255.252
3	R1	R4	
		IP	
	R1	200.0.0.1	255.255.255.248
	R4	200.0.0.2	255.255.255.248
4	R1		
		IP	

R1	192.168.1.1	255.255.255.0
	192.168.1.10	255.255.255.0
5 R2 PC1		
	IP	
R2	192.168.2.1	

PC1 10 10

R1 R2 R3 R4

IP 8

TFTP R1 IOS

TFTP R1.bin 3

45

RIP 25

R1 R2 R3 RIP

R1 RIPv2

R3

.docx

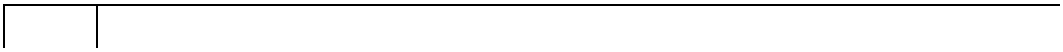
NAT 10

R1 PAT

1 acl NAT

192.168.0.0/22

ÐÏàeX5Fu5i. .µVh ò ñ 4•C l. ˆqÏ7- Ä



10

1			4
2			3
3			3

20. 1-20

1

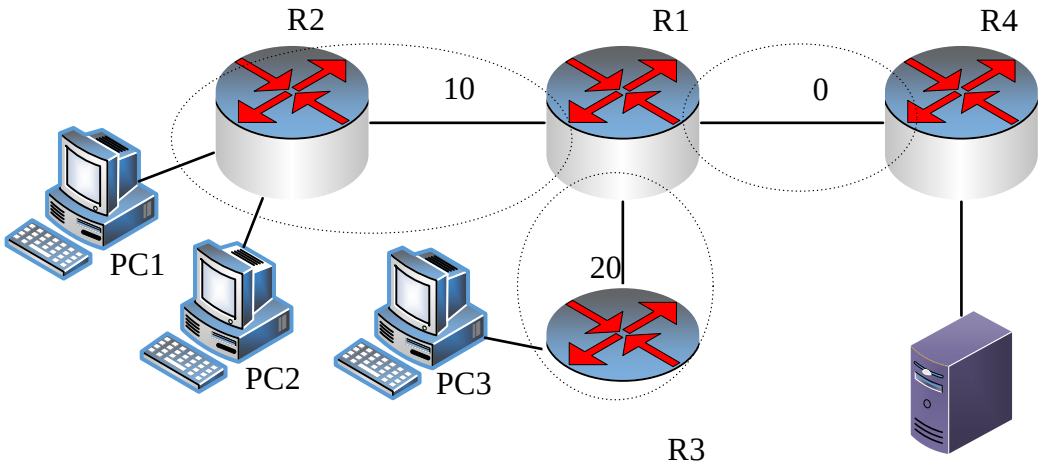
ABC

TFTP

10.0.0.0/16 OSPF

OSPF

stu b OSPF



IP

1 R1 R2		
	IP	
R1	10.0.0.1	255.255.255.252
R2	10.0.0.2	255.255.255.252

2	R1	R3	
		IP	
	R1	10.0.0.5	255.255.255.252
	R3	10.0.0.6	255.255.255.252
3	R1	R4	
		IP	
	R1	10.0.0.9	255.255.255.252
	R4	10.0.0.10	255.255.255.252
4	R2		
		IP	
	R2	10.0.1.1	255.255.255.0
	PC1	10.0.1.10	255.255.255.0
5	R2		
		IP	
	R2	10.0.2.1	255.255.255.0
	PC2	10.0.2.10	255.255.255.0
6	R3		
		IP	
	R3	10.0.3.1	255.255.255.0
	PC3	10.0.3.10	255.255.255.0
7	R4		
		IP	
	R4	10.0.255.1	255.255.255.0
		10.0.255.10	255.255.255.0

10

10

3

2

R1 G0/0 R4 G0/0 R1

G0/1 R2 G0/1 R1 G0/2 R3 G0/2

R2 G0/0 PC1 R2 G0/2 PC2 R3 G0/0

PC3 R4 G0/2 4

30

30

R1 R2 R3

R4 R1 R2 R3 R4 4

R1 console abcd@123

test@123 SSH admin hnswxy@123

10 10

R1 R2 R3 R4

IP 10

TFTP packet tracer TFTP

R1 running - config TFTP

R1.txt 4

45

OSPF 32

R1 OSPF OSPF 10

OSPF Router ID 1.1.1.1

R2 OSPF OSPF 10

OSPF Router ID 2.2.2.2

R3 OSPF OSPF 10

OSPF Router ID 3.3.3.3

R4 OSPF OSPF 10

OSPF Router ID 4.4.4.4

OSPF OSPF

10 20 stu b

13

PC1 10.0.255.10 3

PC2 PC3 10.0.3.10 3

SSH R1 3

FTP R1 running - config

R1.t xt 4

.docx

e: \ \ \ 1- 20\

show running - config

TXT R1

R2 R3 R4 e: \ \ \ 1- 20\ * .txt

R1

.docx TXT

U

2

1		4	CPU4 2.0GHZ 4GB	
2		4		Packet Tracer Cisco 2911

1		Windows 7	
2	Packet Tracer	6.0	6.0
3		Microsoft Office 2013	

3

90

4

10

1			3
2			3
3		1 1	4

30

1	R1			2
2	R1			2
3	R1	Console	Console	2
4	R1	SSH	SSH	4
5	R1	IP		3
6	R2			2
7	R2	IP		3
8	R3			2
9	R3	IP		2
10	R3			2
11	R4	IP		2
12	R1	TFTP	Tf tp	4

OSPF 32

1	R1	OSPF	OSPF stub router ID	8
2	R2	OSPF	OSPF router ID stub	8
3	R3	OSPF	OSPF router ID stub	7
4	R4	OSPF	OSPF router ID	5

5	R1	OSPF	OSPF	3

13

1	1	PC1 10.0.255.10	3
2	2	PC2 PC3 10.0.3.10	3
	3	SSH R1	3
3	4	FTP R1 running-config	4

5

1			3
2			2

10

1			4
2			3
3			3

21. 2-1

1

ABC

IT

WWW 2

IT

3 2 2

IP

172.16.10.0/24 4 VLAN VLAN IP

IP I P PC I P PC1 VLAN10 PC2

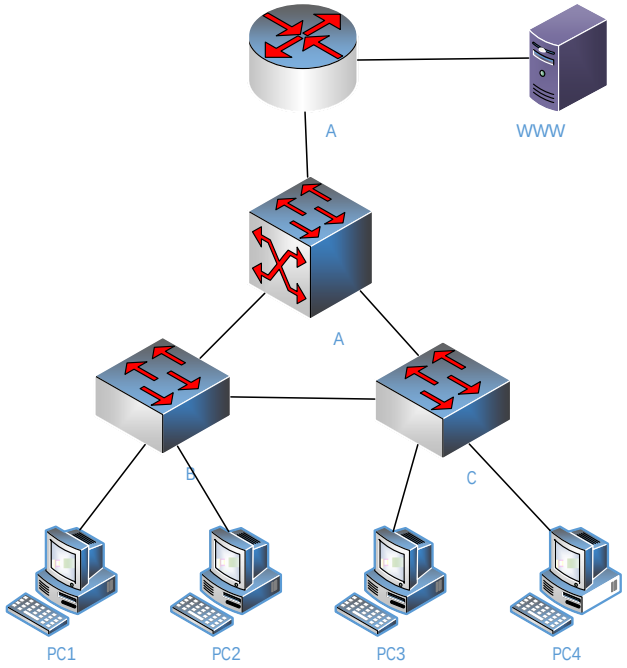
VLAN20 PC3 VLAN30 PC4 VALN40

VLAN NAT

WWW 80

8080

VLAN20 VLAN40 WWW WEB



10

IP

1		
VLAN10	172.16.10.0	255.255.255.192
VLAN20		
VLAN30	172.16.10.128	255.255.255.192

VLAN40		
2		
	IP	
	53.31.29.2 - 4	255.255.255.248
	53.31.29.1	255.255.255.248
3	IP	
VLAN10		
VLAN20		
VLAN30		
VLAN40		
4 IP		
	IP	
WWW	53.31.29.10	255.255.255.0
5		
	IP	
A A	172.16.11.1	255.255.255.252
A A	172.16.11.2	255.255.255.252
6 I P		
	IP	
PC1		

PC2

F0/13 PC3 C F0/1 PC4 C F0/13

5

30

A B C A

SWITCHA B SWITCHB C SWITCHC

3

A B C A

root 4

A B C 4 VLAN VLAN10 VLAN20

VLAN30 VLAN40 B F0/1-12 VLAN10 F0/13-

23 VLAN20 C F0/1-12 VLAN30 F0/13-

23 VLAN40 TRUNK

dot1q 14

A IP IP

VLAN 5

A I P 4

35

A ROUTERA CONSOLE

123 456 TELNET 789 8

IP A IP

4

A

Internet 8

A PAT

ACL

1 mypool 8

A , MYACL

VLAN20 VLAN40 WWW WEB 8

e:\

\ \2-1\

show running-config

TXT e:\

\ \2-1*.txt A

A.txt

U

2

1		1	CPU4 2.0GHZ 2GB	
2		1		packet tracer 2811
3		2	100Mbps	packet tracer 2960
4		1	100Mbps	packet tracer 3560
5		1	CPU4 2.0GHZ 2GB	packet tracer

1		Windows 7	7
2	packet tracer	7.3.3	7.3.3
3		Microsoft Office 2010	2010
4		Visio 2010	packet tracer ppt

3

120

4

10

1			1
2	IP	IP	4
3			5

8.5

1			3
2			2
3			5

30

1	A			1
		VLAN	VLAN	2
		TRUNK	TRUNK	2
		STP	STP	2
				5
				4
2	B			1
		VLAN	VLAN	3
		TRUNK	TRUNK	2
		STP	STP	1
3	C			1
		VLAN	VLAN	3

		TRUNK	TRUNK	2
		STP	STP	1

35

1	A			2
			Telnet	9
		IP	IP	4
			OSPF	10
				5
				5

5

1 3

50

50

WEB

192.168.1.0/24 4

IP IP

I P PC I P WWW

IP 2-4 VLAN VLAN

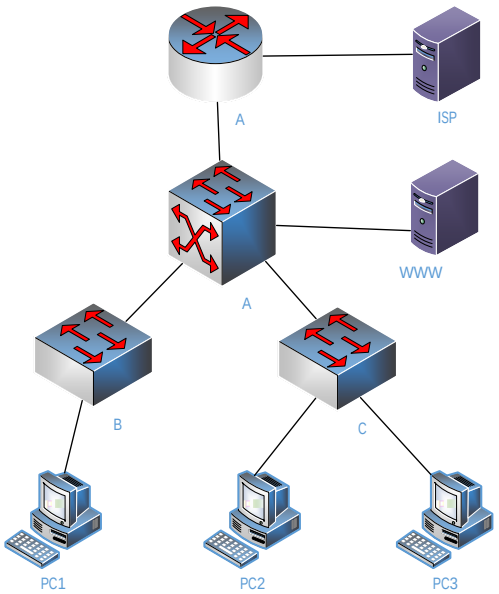
VLAN PC1 VLAN10 PC2 VLAN20 PC3 VLAN30

VLAN OSPF PAT

I SP

NAT WWW

WWW WEB



10

IP

1			
	VLAN		
	2	192.168.1.0	255.255.255.192
	10		
	20	192.168.1.128	255.255.255.192

10

2

A F0/0

ISP A F0/1 A F0/1 ,

,WWW A F0/13 PC1

B F0/13 PC2 C F0/1 PC3 C F0/13 5

30

A B C A SA B SB C SC 3

A 4 VLAN F0/13-23 VLAN2 3

B 2 VLAN F0/1-12 VLAN1 F0/13-23 VLAN10 3

C 2 VLAN F01-12 VLAN20 F0/13-23 VLAN30 3

TRUNK dot1q 3

A WWW MAC A F0/13 MAC 1 MAC A MAC

6

A IP IP 6

A OSPF OSPF 1

3

35

A A ROUTERA CONSOLE 123456 ABCDE 7

Telnet

abcde 4

I P IP 4

A OSPF OSPF 1

6 yC% XD

A OSPF

4

A PAT

NAT WWW

3		2	100Mbps	packet tracer 2960
4		1	100Mbps	packet tracer 3560
5		2	CPU4 2.0GHZ 2GB	packet tracer

1		Windows 7	7
2	packet tracer	7.3.3	7.3.3
3		Microsoft Office 2010	2010
4		Visio 2010	packet tracer ppt

3

120

4

10

1			1
2	IP	IP	4
3			5

10

1			3
2			2
3			5

30

1	A			1
		VLAN	4 VLAN 1 VLAN	3
		TRUNK	TRUNK	1
			IP	3
			OSPF	3

			WWW MAC A	9
2	B			1
		VLAN	2 VLAN	3
		TRUNK	2 TRUNK	1
3	C			1
		VLAN	2 VLAN	3
		TRUNK	2 TRUNK	1

35

1	A		CONSOLE	5
			Telnet	4
		IP	IP	4
		OSPF	OSPF	9
				3
				5
				5

5

1			3
2			2

10

1			4
2			3
3			3

23. 2-3

1

ABC 100 200

200

50 50 50

50 FTP

IT

1 VLAN				
VLAN				
VLAN10		50	192.168.0.0	255.255.255.192
VLAN20		50		
VLAN30		50	192.168.0.128	255.255.255.192
VLAN40		50		
2				
			200.1.8.1	255.255.255.252
			200.1.8.2	255.255.255.252
3				
			IP	
VLAN10				
VLAN20				
VLAN30				
VLAN40				
4 IP				
FTP			192.168.1.1	255.255.255.252
A			192.168.1.2	255.255.255.252
5 I P				
			IP	
PC				

10

-

3

2

A F0/0

FTP A F0/1 B F0/1

F0/21-24 s0/0/0 PC

A F0/2 PC A F0/9

PC B F0/2 PC B

F0/9 5

30

A B A SWITCHA

B SWITCHB 2

VLAN A VLAN 10 20 30

40 F0/2-8 VLAN10 F0/9-15 VLAN20

F0/1 trunk B VLAN10 20 30 40

F0/2-8 VLAN30 F0/9-15 VLAN40 12

A B F0/21-22 trunk A

F0/21-22 B F0/21-22

1 on trunk

6

A B F0/23-24 trunk A

F0/23-24 B F0/23-24

2 LACP

active trunk VLAN 6

A B

4

35

A B A ROUTERA

B ROUTERB 2

B F0/1

VLAN

VLAN 9

I P A B IP 3

A B PPP PAP

password 8

OSPF 1

ping

8

B 1

abcde 5

e: \

\ \ 2- 3\

show running - config

TXT e: \

\ \ 2- 3\ *.txt A

U

2

1		4	CPU4 2.0GHZ 2GB	
2		2		packet tracer 2811
3		2	100Mbps	packet tracer 2960
4		0	100Mbps	packet tracer 3560
5		1	CPU4 2.0GHZ 2GB	packet tracer

1		Windows 7	7
2	packet tracer	7.3.3	7.3.3
3		Microsoft Office 2010	2010
4		Visio 2010	packet tracer ppt

3

120

4

10

1			1
2	IP	IP	4
3			5

10

1			3
2			2
3			5

30

1				2
2	A	VLAN	VLAN VLAN	6

3	B	VLAN	VLAN VLAN	6
4				12
5				4

35

1				2
2	B		4 IP	9
3			PAP	8
4		OSPF	OSPF	8
5		IP	IP	3
6	B			5

5

1			3
2			2

10

1			4
2			3
3			3

24. 2-4

1

ABC A

1

IT

120 FTP

IT

10.10.10.0/24 2 VLAN VLAN10 VLAN20

VLAN

2

VLAN VLAN

IP VLAN VLAN

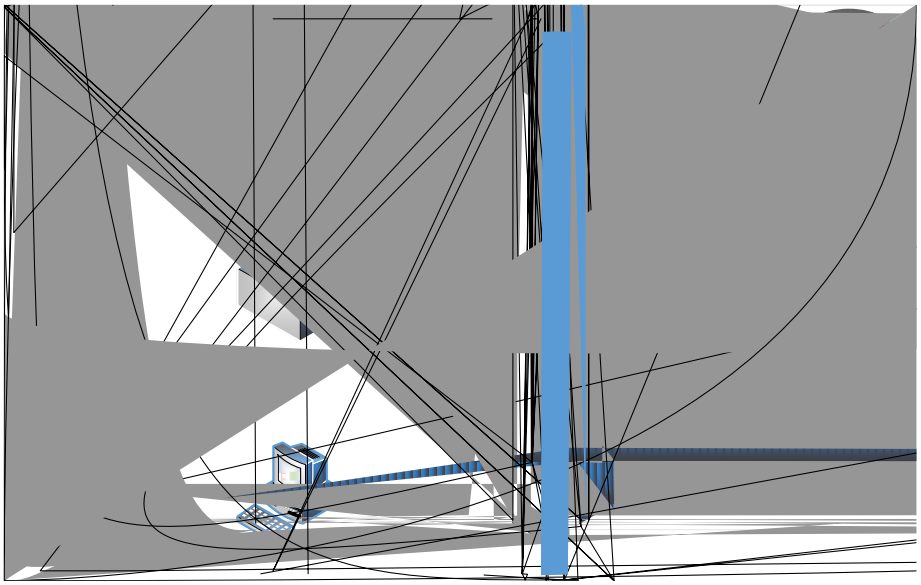
I P PC

IP 172.16.1.0/30

PAP FTP

192.168.1.0/24 IP

I P PC IT



10

IP

1 VLAN		
VLAN		
VLAN10		
VLAN20	10.10.10.128	255.255.255.128
2		
	IP	
A	172.16.1.1	255.255.255.252
B	172.16.1.2	255.255.255.252
3		
	IP	
VLAN10		
VLAN20		
4 IP		
	IP	
FTP	10.10.10.10	255.255.255.128
5 PC IP		
	IP	
	IP	
B	192.168.1.254	255.255.255.0
PC	192.168.1.1	255.255.255.0

10

-

3

2

A F0/1

A F0/1 A S0/0/1

B S0/0/1 A F0/2

C F0/1 B F0/1 A B F0/23-24

PC A F0/10 PC

B F0/22 PC C F0/24 5

30

A B A old

B new 2

A VLAN 10 20 F0/2-10 VLAN10

F0/11-22 VLAN20 F0/1 TRUNK 7

B VLAN 10 20 F0/1-10 VLAN10

F0/12-22 VLAN20 5

A

VLAN

VLAN 5

A OSPF OSPF 1 Router ID 1.1.1.1 ,

6

B OSPF OSPF 1 Router ID 2.2.2.2 ,

5

A B PPP PAP

123456 6

B 100,

4

A Telnet

1 PC

123456 4

e:\

\ \2-4\

show running-config

TXT e:\

\ \2-4*.txt A

U

2

1		3	CPU4 2.0GHZ 2GB	
2		2		packet tracer 2811
3		3	100Mbps	packet tracer 2960
4		0	100Mbps	packet tracer 3560
5		1	CPU4 2.0GHZ 2GB	packet tracer

1			3
2			2
3			5

30

1	A			1
2	A	VLAN	2 VLAN VLAN	5
3	A			3
4	A	TRUNK	TRUNK	2
5	B			1
6	B	VLAN	2 VLAN VLAN	5
7	B			3
8	B	TRUNK	TRUNK	1
9	A			3
10	B			1
11	A		FTP MAC A	6

35

1	A			1
2	A	IP	IP	1
3	A		2 IP	5
4	A	OSPF	OSPF	6
5	A	PPP	PPP	1
6	A	PAP	PAP	2
7	A		Telnet Telnet	4
8	B			1
9	B	IP	IP	2
10	B	OSPF	OSPF	5
11	B	PPP	PPP	1
12	B	PAP	PAP	2
13	B			4

5

1			3
2			2

10

1			4
2			3
3			3

25. 2-5

1

ABC

2 100

FTP

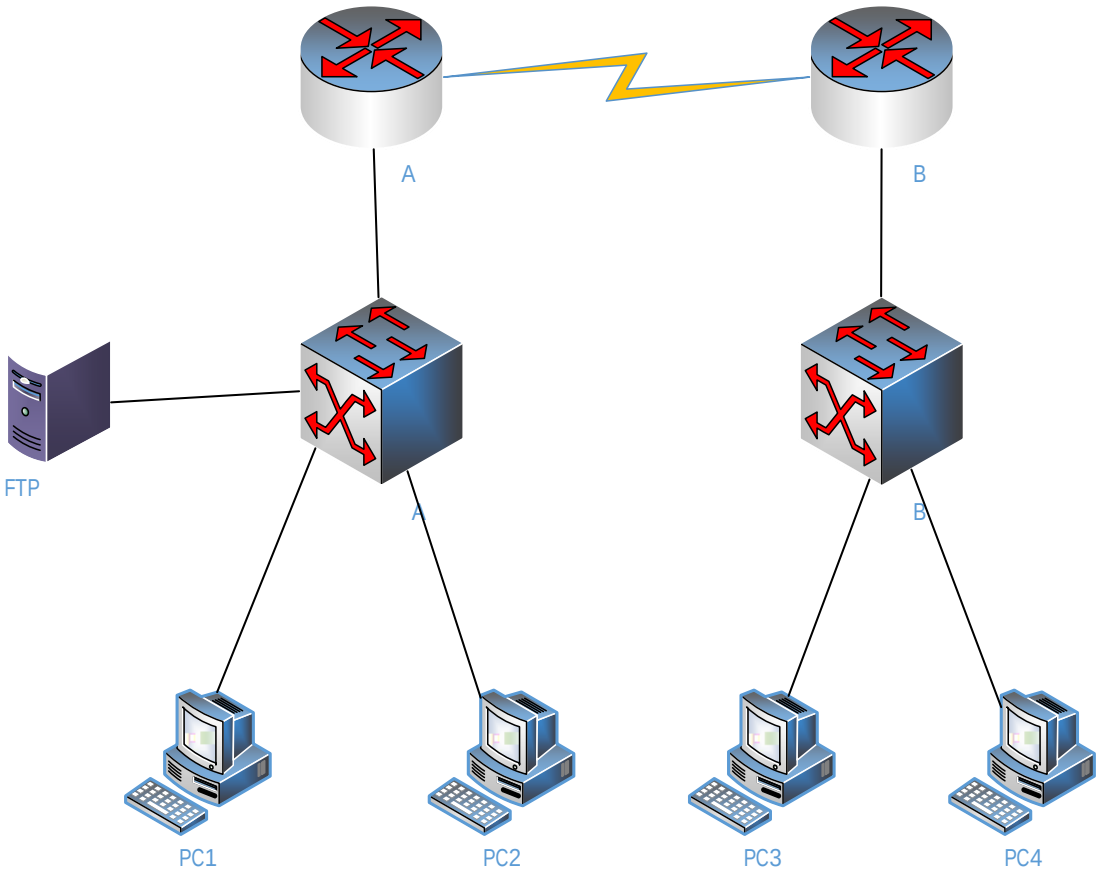
FTP VLAN10

IT

IP 192.168.1.0/24 IP

192.168.2.0/24 VLAN

IP IP IP, I P



11

IP

1 VLAN			
VLAN			
VLAN10	100	192.168.1.0	255.255.255.128
VLAN20	100		
2 VLAN			
VLAN10	100		
VLAN20	100	192.168.2.128	255.255.255.128
3			
		1.1.1.1	255.255.255.252
		1.1.1.2	255.255.255.252
4			
		IP	
VLAN10			
VLAN20			
5			
VLAN10			

VLAN20		
6 IP		
	IP	
FTP	192.168.1.10	255.255.255.128
7 IP		
A	192.168.3.2	255.255.255.252
A	192.168.3.1	255.255.255.252
B	192.168.3.6	255.255.255.252
B	192.168.3.5	255.255.255.252
8 IP		
	IP	
PC		
PC		
PC		
PC		

9

-

2

2

G0/1

G0/1 A F0/1 FTP

PC1 A F0/2 PC2 A F0/6 PC3

B F0/2 PC4 B F0/6

S0/0/0 5

30

A B A SWITCHA

B SWITCHB 2

A VLAN F0/1-5 VLAN10

F0/6-10 VLAN20 5

B VLAN F0/1-5 VLAN10
F0/6-10 VLAN20 5
A B IP IP
VLAN 7
SWITCHA FTP MAC SWITCHA
F0/1 MAC 1;
MAC MAC
6
SWITCHA OSPF A
, 1 Router ID 10.10.10.10 2
SWITCHB OSPF B
, 1 Router ID 20.20.20.20 2
35
A ROUTERA B
ROUTERB A B test CONSOLE
CONA 10
IP A B IP 8
ROUTERB PPP PAP
123456 8
A OSPF OSPF 1 Router
ID 30.30.30.30 2
B OSPF OSPF 1 Router
ID 40.40.40.40 2
A B OSPF MD5

123456 4

B MYACL

5

e:\

\ \2-5\

show running-config

TXT e:\

\ \2-5*.txt A

1		Windows 7	7
2	packet tracer	7.3.3	7.3.3
3		Microsoft Office 2010	2010
4		Visio 2010	packet tracer ppt

3

120

4

10

1			1
2	IP	IP	4
3			5

10

1			3
2			2
3			5

30

1				2
2		VLAN	2 VLAN 2 VLAN	10
3				2
4				2
5		VLAN	VLAN	4
6			FTP MAC A	6
7			OSPF	4

35

1				10

3		I P	IP	8
3			PPP PAP	4
4		OSPF	OSPF	4
5		OSPF	OSPF	4
6	A			5

5

1			3
2			2

10

1			4
2			3
3			3

26. 2-6

1

ABC A B

C

10.10.30.0/24 50

4

2 2 IP

10.10.10.0/24 180

4 VLAN

FTP

IP FTP

VLAN33		5		
3 VLAN				
VLAN				
VLAN1		38	10.10.30.0	255.255.255.192
VLAN2		12		
4				
			IP	
A	B		172.16.1.1	255.255.255.252
B	A		172.168.1.2	255.255.255.252
A	C		172.16.1.5	255.255.255.252
C	A		172.168.1.6	255.255.255.252
A	A		172.16.1.9	255.255.255.252
A	A		172.16.1.10	255.255.255.252
5				
			IP	
VLAN10				
VLAN20				
VLAN30			10.10.10.190	255.255.255.252
VLAN40				
6				
			IP	
VLAN11			10.10.20.62	255.255.255.192
VLAN22				
VLAN33				
7				
			IP	
VLAN1				
VLAN2			10.10.30.126	255.255.255.192
8 IP				
			IP	
FTP			10.10.10.2	255.255.255.192

10

-

3

2

F0/1

F0/1 S0/0/1 B

A S0/0/ 0 C

A FTP A F0/2 PC

B F0/11, PC B F0/2

PC A F0/6 PC A F0/16

PC A F0/11 1 PC C F0/11

1 PC C F0/2 1 PC C

F0/16 5

30

A B C A

SwitchA B SwitchB C SwitchC

1.5

A B C CONSOLE CONA ENABLEA

3

A 4 VLAN F0/2-5 VLAN10 F0/6-

10 VLAN20 F0/11-15 VLAN30 F0/16-20

VLAN40 6

C 3 VLAN F0/2-10 VLAN11

F0/11-15 VLAN22 F0/16-20 VLAN33 4.5

B 2 VLAN F0/2-10 VLAN1

F0/11-20 VLAN2 3

TRUNK 1.5

A FTP

FTP MAC 3

A IP VLAN IP

VLAN 3.5

A OSPF 1

3

35

A B C A RA

B RB C RC 3

IP IP 5

B B F0/1

3

C C F0/1

4

RA RB PPP PAP

RA RC PPP PAP

123456 7

RA RB RC OSPF OSPF 1

5

RA RB OSPF MD5

123456 RA RC OSPF

123456 4

RB

+ test 123456 4

e: \

\ \ 2- 6\

show running- config

TXT e: \

\ \ 2- 6\ *.txt A

U

2

1		8	CPU4 2.0GHZ 2GB	
2		3		packet tracer 2811
3		2	100Mbps	packet tracer 2960
4		1	100Mbps	packet tracer 3560
5		1	CPU4 2.0GHZ 2GB	packet tracer

1		Windows 7	7
2	packet tracer	7.3.3	7.3.3
3		Microsoft Office 2010	2010
4		Visio 2010	packet tracer ppt

3

120

4

10

1			2
2	IP	IP	3
3			5

10

1			3
2			2
3			5

30

1				1.5
2		CONSOLE	CONSOLE	1.5
3				1.5
4		VLAN	VLAN VLAN	14.5
5		TRUNK	TRUNK	1.5
6	A			3
7	A			0.5
8	A			3
9	A	OSPF	OSPF	3

35

1				3
2		I P	IP	5
3	B C			7
4			PPP PAP	7
5		OSPF	OSPF	5
6		OSPF	OSPF	4
7	B			4

5

1			3
2			2

10

1			4
2			3
3			3

27. 2-7

1

ABC

IT

114

WWW 2

PPP 172.16.1.0/24

4 3 VLAN10 VLAN20

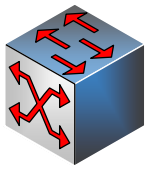
VLAN30 1

IP , I P

vlan30 A VLAN B

B

VLAN10



A

A

PC

10

IP

1 VLAN				
VLAN				
[redacted]		28	172.16.1.0	255.255.255.192

VLAN20		
VLAN30		
8 IP		
	IP	
WWW	172.16.1.130	255.255.255.192
PC		
PC	172.16.1.65	255.255.255.192
PC		

10

-

3

2

A F0/1

A F0/1 2

S0/0/ 0 , WWW A F0/2

PC A F0/3 PC B

F0/1 PC B F0/11 5

30

A B A

SWA B SWB 2

A B CONSOLE CONA 2

A 3 VLAN 2-10

VLAN30 4

B 2 VLAN 1-10 VLAN10

11-20 VLAN20 4

A IP A A

F0/1 I P 2

IP VLAN IP VLAN

3

A OSPF 1

3

B PC MAC F0/1

PC MAC F0/11

6

A B G0/1-2 t runk A

G0/1-2 B G0/1-2

1 PAGP

desirable trunk VLAN

4

35

A B A

RA B RB

A B CONSOLE CONA

ENABLEA 6

IP IP 6

A OSPF 1

3

I P A

Internet , OSPF 4

A 100

6

A

123456 4

A B PPP

PAP test 123456 6

e:\

\ \2-7\

show running-config

TXT e:\

\ \2-7*.txt A

U

2

1		3	CPU4 2.0GHZ 2GB	
2		2		packet tracer 2811
3		1	100Mbps	packet tracer 2960
4		1	100Mbps	packet tracer 3560

5		1	CPU4 2.0GHZ 2GB	packet tracer

1		Windows 7	7
2	packet tracer	7.3.3	7.3.3
3		Microsoft Office 2010	2010
4		Visio 2010	packet tracer ppt

3

120

4

10

1			1
2	IP	IP	4
3			5

10

1			3
2			2
3			5

30

1				2
2		CONSOLE	CONSOLE	2

35

1				2
2		CONSOLE	CONSOLE	2
3				2
4		I P	IP	6
5	A	OSPF	OSPF	3
6	A		OSPF	4
7	A			6
8	A			4
9			PPP PAP	6

5

1			3
2			2

10

1			4
2			3
3			3

28. 2-8

1

ABC

714

38

IP

IP 172.30.0.0/22

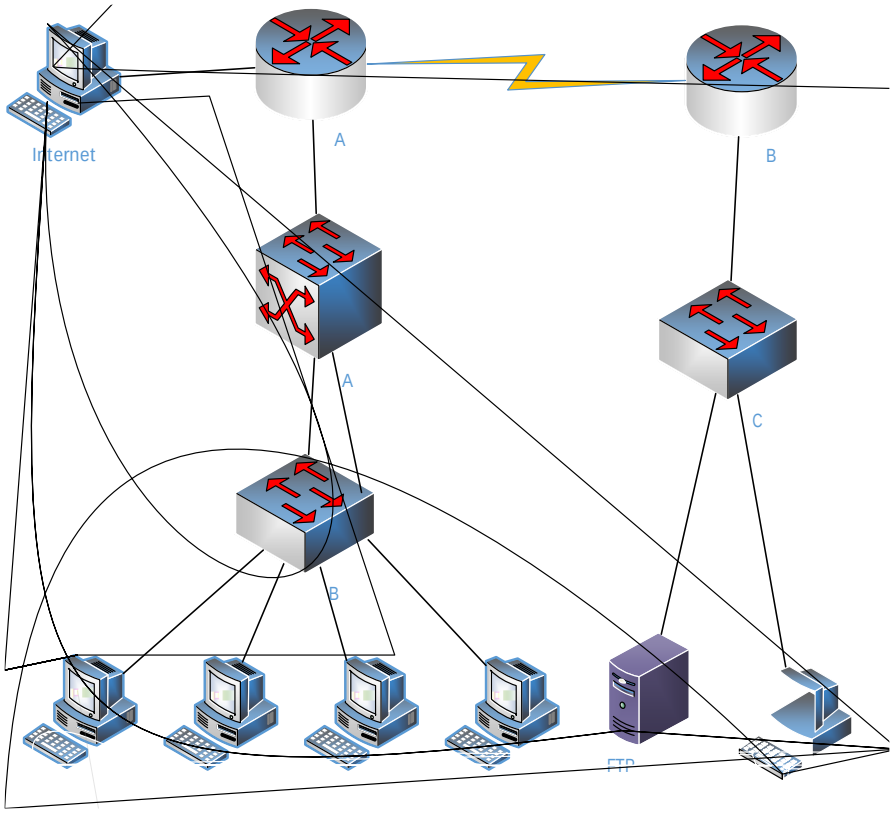
VLAN VLAN IP

IP IP

IP 172.31.0.0/24 FTP

I P

200.200.200.4/30



10

IP

1 VLAN				
VLAN				
VLAN10		228	172.30.0.0	
VLAN20		135	172.30.1.0	255.255.255.0
VLAN30		251	172.30.2.0	
VLAN40		100	172.30.3.0	255.255.255.0
2				
			IP	
A A			10.10.10.5	255.255.255.252
A A			10.10.10.6	255.255.255.252
3				
			IP	
			200.200.200.5	255.255.255.252
			200.200.200.6	255.255.255.252
4				
			IP	
VLAN10				
VLAN20				
VLAN30				
VLAN40				
IP			172.31.0.254	255.255.255.0
5 PC IP				
			IP	
PC				
FTP			172.31.0.2	255.255.255.0

6 IP

-

3

2

G0/1

G0/1 C

F0/1 C F0/2

PC F0/23-24 2

S0/0/0 Internet PC A

G0/0 PC B F0/1

PC B F0/6 PC B F0/11

PC B F0/16 5

30

A B C A SWA

B SWB C SWC 3

VLAN A 4 VLAN 4

VLAN B 4 VLAN

B F0/1-5 VLAN10 B F0/6-10

VLAN20 B F0/11-15 VLAN30

A OSPF 1

3

A B 23-24 TRUNK A 23-24

B 23-24

1 trunk PAGP

desirable VLAN

5

C B TRUNK 1

35

A B A RA

B RB 2

IP IP 5

A B OSPF 1

A I nternet OSPF

8

A NOACCESS

FTP 5

A B PPP

CHAP 123456 4

B DHCP IP

BRANCH IP 4

A PAT

I nternet

7

e: \

\ \ 2- 8\

showrunning- config

TXT e: \

\ \ 2- 8\ *.txt A

U

2

1		5	CPU4 2.0GHZ 2GB	
2		2		packet tracer 2911
3		1	100Mbps	packet tracer 2960
4		1	100Mbps	packet tracer 3560
5		2	CPU4 2.0GHZ 2GB	packet tracer

1		Windows 7	7
2	packet tracer	7.3.3	7.3.3
3		Microsoft Office 2010	2010
4		Visio 2010	packet tracer ppt

3

120

4

10

1			0
2	IP	IP	4.5
3			5.5

10

1			3
2			2
3			5

30

1				3
2	A B	VLAN	VLAN VLAN	12
3	A	I P	IP	2
4	A	VLAN	VLAN	4
5	A	OSPF	OSPF	3
6	A B			5
7	C	TRUNK	TRUNK	1

35

1				2
2		I P	IP	5
3			OSPF	8

4	A			5
5			PPP CHAP	4
6	B	DHCP	DHCP	4
7	A	NAT	PAT	7

5

1			3
2			2

10

1			4
2			3
3			3

29. 2-9

1

ABC A

2

IT

120 200

150 FTP

IT

192.168.1.0/24

192.168.2.0/24

VLAN IP 4 VLAN 3

VLAN 1 VLAN VLAN 50

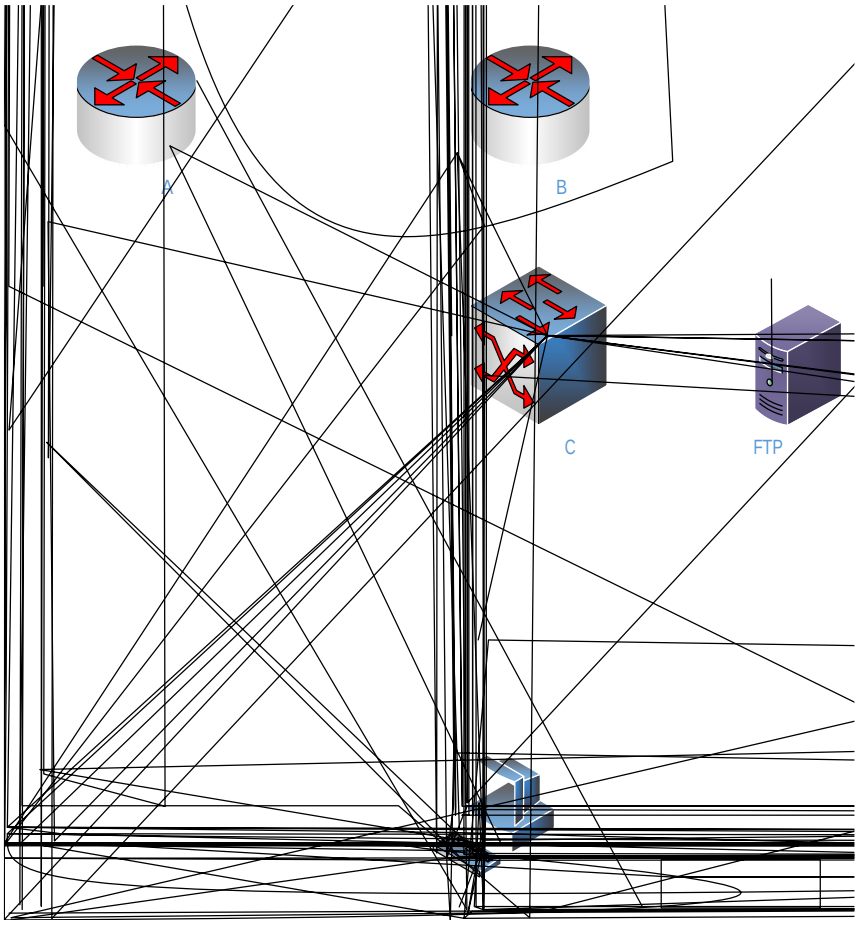
VLAN IP VLAN

IP PPP

IP 192.168.3.0/30

IP 192.168.3.4/30 OSPF

FTP IT



10

IP

1 VLAN			
VLAN			
VLAN10	IT	192.168.2.0	255.255.255.192
VLAN20			
VLAN30			
		192.168.1.0	255.255.255.0
2			

	192.168.3.1	255.255.255.252
	192.168.3.2	255.255.255.252
	192.168.3.5	255.255.255.252
	192.168.3.6	255.255.255.252
3		
	IP	
VLAN10		
VLAN20		
VLAN30		
	192.168.1.254	255.255.255.0
4 IP		
	IP	
FTP	192.168.2.3	255.255.255.192
I T		

10

-

3

2

G0/1

G0/1 S0/0/ 0

A B B F0/24

C F0/24 B G0/2

C G0/2 C

F0/1 FTP I T PC B F0/1 PC

B F0/8 PC B F0/16

5

30

A B C A

SWITCHA B SWITCHB C SWITCHC

3

A IP 192.168.1.2 1

C 3 VLAN F0/1-3

VLAN10 C F0/24 G0/2

Trunk 3.5

B 3 VLAN F0/1-7

VLAN10 F0/8-15 VLAN20

F0/16-21 VLAN30 B F0

B ROUTERB 2

IP IP 4

A OSPF 1

r outer - id 1.1.1.1

3

B OSPF 1

r outer - id 2.2.2.2

3

A B OSPF MD5

123456 4

A B DCE

64000 A B PPP PPP

PAP passwd 7

A B CONSOLE 123456

ABCDE 8

B IT

123456 4

e: \

\ \ 2- 9\

showrunning - config

TXT e: \

\ \ 2- 9\ *.txt A

U

2

1		3	CPU4 2.0GHZ 2GB	
2		2		packet tracer 2911
3		2	100Mbps	packet tracer 2960
4		1	100Mbps	packet tracer 3560
5		1	CPU4 2.0GHZ 2GB	packet tracer

1		Windows 7	7
2	packet tracer	7.3.3	7.3.3
3		Microsoft Office 2010	2010
4		Visio 2010	packet tracer ppt

3

120

4

10

1			1.25
2	IP	IP	3.75

3			5

10

1			3
2			2
3			5

30

1				3
2	A	I P	I P	1
3	B C	VLAN	VLAN VLAN	7
4	B C	TRUNK	TRUNK	2
5	C			1
6	C			5
7	C	OSPF	OSPF	5
8	C			3
9	B C		STP	3

35

1				2
2		I P	IP	4
3		OSPF	OSPF	6
4		OSPF	OSPF	4
5				1
6			PPP PAP	6
7			CONSOLE	8
7	B			4

5

1			3
2			2

10

1			4
2			3
3			3

30. 2-10

1

ABC

100 WEB

172.16.30.0/24 4 VLAN

3 VLAN 1 VLAN

IP , I P

2

OSPF OSPF 0

STP

A

VLAN20 VLAN10

ABC

10

IP

1 VLAN			
VLAN			
VLAN10		172.16.30.0	255.255.255.192
VLAN20			
VLAN30			
2			
		IP	
VLAN10			
VLAN20			
VLAN30			
3			
		IP	
		10.10.10.1	255.255.255.252
		10.10.10.2	255.255.255.252
		10.10.10.5	255.255.255.252
		10.10.10.6	255.255.255.252
		10.10.10.9	255.255.255.252
		10.10.10.10	255.255.255.252
4			

	IP	
	10.10.10.13	255.255.255.252
	10.10.10.14	255.255.255.252
5 IP		
	IP	
WWW	172.16.30.10	255.255.255.192

10

-

3

2

G0/1

G0/1 A B F0/23 A C

F0/24 B F0/24 C F0/23

A S0/0/1

C S0/0/1 A S0/0/0

B S0/0/0

C S0/0/0 B S0/0/1

WWW C F0/1 PC B

F0/16 PC B F0/6 PC

C F0/2 5

30

A B C A

SWITCHA B SWITCHB C SWITCHC

1.5

A B C CONSOLE CONA ENABLEA

3

VLAN A 3 VLAN

F0/23 F0/24 TRUNK 2

VLAN B C 3 VLAN

F0/1-5 VLAN10 F0/6-15

VLAN20 F0/16-21 VLAN30 F0/23 F0/24

TRUNK 7

WWW MAC C F0/1

MAC 1 MAC

3

A B C A

4

A IP

IP 4

IP A VLAN IP

VLAN 3

A OSPF 1

2.5

35

A B C A ROUTERA

B ROUTERB C ROUTERC 3

A B C CONSOLE 123456

ABCD 6

IP A B C IP 7

OSPF 1

OSPF 7

A B C OSPF MD5

123456 6

A B C PPP 6

e:\

\ \2-10\

showrunning-config

TXT e:\

\ \2-10*.txt A

U

2

1		3	CPU4 2.0GHZ 2GB	

2		3		packettracer 2911
3		2	100Mbps	packettracer 2960
4		1	100Mbps	packettracer 3560
5		1	CPU4 2.0GHZ 2GB	packettracer

1		Windows7	7
2	packettracer	7.3.3	7.3.3
3		MicrosoftOffice2010	2010
4		Visio2010	packettracer ppt

3

120

4

10

1			1.25
2	IP	IP	3.75

3

3				1.5
4		VLAN	VLAN VLAN	7.5
5		TRUNK	TRUNK	1.5
6	C			3
7			STP	4
8	A			2
9	A			5
10	A	OSPF	OSPF	2.5

35

1				3
2		CONSOLE	CONSOLE	3
3				3
4		I P	IP	7
5		OSPF	OSPF	7
6		OSPF	OSPF	6
7			PPP	6

5

1			3
2			2

10

1			4
2			3
3			3

31. 3-1 Windows Server

1

A

Windows

Windows Server

WEB

IIS

WEB

20

VMware Windows Server 2012 R2

E:\ \ WIN2012 2GB 110G

SCSI NAT 10

Windows Server 2012 R2 Standard GUI

C 40G D 20G

E Administrator j nkh.2020 10

30

IP 192.168.1.1 1 255.255.255.0

192.168.1.2 3

guanli IT it u1 u2

u3 u1 u2 it u3 guanli 7

C C:\ Web_A

Administrator s SYSTEM guanli Users

15

20G SCSI

10G G

5

WWW 20

Windows Server IIS IIS

Web A IP

C:\ Web_A IP 192.168.1. 11/24 80 WEB

100 120 10

jnkh.htm

A I E 10

DHCP 15

DHCP IP

192.168. 1. 1/24 - 192.168.1.25 4/24 DNS 192.168.1.2

192.168.1. 2 192.168.1. 1- 20 12

DHCP IP DNS 3

2

1		1	CPU4 2.0GHZ 8GB	

1		Windows10 Windows7	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2013	2013
4	Windows Server 2012 R2	ISO	
5		Windows7	NAT

3

120

4

20

1		2 2 2 4	10
2			2
3		C D 4	8

30

1		IP 1	3
2		3 2 2	7
3		3 3	15
4		3 2	5

WWW 20

1	IIS	IIS	2
2		IP 2	10
3		3 2	5
4			2

DHCP 15

1			2
2			5

3		IP DNS 2	5
4			3

5

1			3
2			2

10

1			4
2			3
3			3

32. 3-2 Windows Server

1

B

Windows DNS FTP

/

DNS FTP DNS FTP

FTP FTP

/

20

VMware Windows Server 2012 R2

E:\ \ WIN2012 2GB 120G

SCSI NAT 10

Windows Server 2012 R2 Standard GUI

C 50G D 30G

E Administrator j nkh.2020 10

30

IP 192.168.1.1 2 255.255.255.0

192.168.1.2 DNS IP 192.168.1.12 4

B01

B02 6

C C:\ FTP_B

Administrator s SYSTEMguanli Everyone

15

30G SCSI

20G G

5

DNS 15

DNS

jnkh _b.com DNS dns. jnkh _b.com

IP 192.168.1. 12 DNS f tp.jnkh _b.com

IPv4 DNS 12

DNS CMD

f tp.jnkh _b.com 3

FTP 20

FTP FTP

B FTP \ FTP_

B01 13

ftp ftp.jnkh_b .com B01

B02 FTP

7

2

1		1	CPU4 2.0GHZ 8GB	

1		Windows10 Windows7	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2013	2013
4	Windows Server 2012 R2	ISO	

3

120

4

20

1		2 2 2 4	10
2			2
3		C D 4	8

30

1		IP DNS 1	4
2		2 2 2	6
3		3 3	15
4		3 2	5

DNS 15

1	DNS		2
2		2	4
3		2	6
4		nslookup	3

FTP 20

1			3
2		5	10
3		B01 2 3 B02 FTP 2	7

5

1			3
2			2

10

1			4
2			3
3			3

33. 3-3 Windows Server

1

C

Windows

DNS WEB FTP DNS

WEB FTP WEB

WEB

FTP /

20

VMware Windows Server 2012 R2

E:\ \ WIN2012 2GB 130G

SCSI NAT 10

Windows Server 2012 R2 Standard GUI

C 60G D 40G

E Administrator j nkh.2020 10

30

IP 192.168.1.13 255.255.255.0

192.168.1.2 DNS IP 192.168.1.13 4

C

C01

C02 6

C C:\ Web C

Administrator s SYSTEM Users

15

40G SCSI

10G G

5

DNS 15

DNS

jnkh _c.com wwwjnkh _c.com IP

192.168.1.13 f tp.jnkh _c.com IP 192.168.1.13 15

DNS CMD

wwwjnkh _c.com ftp. jnkh _c.com 5

WWW 10

Windows Server IIS IIS

Web C C:\ WebC 5

c.htm C

5

FTP 10

FTP FTP

6

FTP ftp

4

2

1		1	CPU4 2.0GHZ 8GB	

1		Windows10 Windows7	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2013	2013

5

1			3
2			2

10

1			4
2			3
3			3

34. 3-4 Windows Server

1

D

Windows

DNS DHCP DNS

DHCP IP DNS

20

VMware Windows Server 2012 R2

E:\ \ WIN2012 2GB 140G

SCSI NAT 10

Windows Server 2012 R2 Standard GUI

C 70G D 30G

E Administrator j nkh.2020 10

30

IP 192.168.1.14 255.255.255.0

192.168.1.2 DNS IP 192.168.1.14 4

jnkh_d.com

10

D01 D02

D01

D02 10

30G SCSI

20G RAID-5

G 6

DNS 15

dns.jnkh _d.com IP

192.168.1.14 DNS WEB FTP

www ftp 10

CMD wwwjnkh _d.com

ftp .jnkh _d.com 5

DHCP 20

DHCP IP

192.168.1. 21/24 - 192.168.1.25 4/24 DNS 192.168.1.1 4

192.168.1.2 Guanli MAC 00-

0C-29-12-34-56 IP 192.168.1.8 0 15

DHCP IP DNS 5

2

1		1	CPU4 2.0GHZ 8GB	

1		Windows10 Windows7	64
2	VMwareWorkstation	12.0	12.0 64
3		Microsoft Office 2013	2013
4	Windows Server 2012 R2	ISO	
5		Windows7	NAT

3

120

4

20

1		2 2 2 4	10
2			2
3		C D 4	8

30

1		IP DNS 1	4
2		6 2 2	10
3		2 2 4 2	10
4		3 3	6

DNS 15

1			4
2		3	6

3		nslookup	5

DHCP 20

1		3 2	5
2			2
3		IP DNS 2	8
4			5

5

1			3
2			2

10

1			4
2			3
3			3

35. 3-5 WindowsServer

1

E

Windows

DNS WEB DHCP DNS

WEB WWW

DHCP IP DNS

3		Microsoft Office 2013	2013
4	Windows Server 2012 R2	ISO	

3

120

4

20

1		2 2 2 4	10
2			2
3		C D 4	8

30

2			2

10

1			4
2			3
3			3

36. 3-6 Windows Server

1

F

/

Windows

DHCP WEB FTP DHCP IP

DNS WEB

WWW FTP

/

20

VMware Windows Server 2012 R2

E:\ \ WIN2012 2GB 160G

SCSI NAT 10

Windows Server 2012 R2 Standard GUI

C 50G D 50G

E Administrator j nkh.2020 10

30

IP 192.168.1.1 6 255.255.255.0

192.168.1.2 DNS IP 192.168.1.1 6 4

jnkh_f .com I T

10

I T F01 F02

F01

F02 10

60G SCSI

GPT 30G

G 6

WEB 20

Windows Server IIS IIS

F C:\ Web_F1

8080 f 1.htm F

F 100 F

4096 F

15

F ,

C:\ Web_F f .htm F

3

2

FTP 15

FTP FTP

100 10

FTP ftp

5

2

1		1	CPU4 2.0GHZ 8GB	

1		Windows10 Windows7	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2013	2013
4	Windows Server 2012 R2	ISO	

3

120

4

20

1		2 2 2 4	10
2			2
3		C D 4	8

30

1		IP DNS 1	4
2		6 2 2	10
3		2 2 4 2	10
4		3 3	6

WEB 20

1	IIS	IIS	2
2		2 3	13
3		1 2	3
4		1	2

FTP 15

1			3
2		 3	9
3		1 1	3

5

1			3
2			2

10

DNS FTP DNS

FTP /

20

VMware Windows Server 2012 R2

E:\ \ WIN2012 2GB 170G

SCSI NAT 10

Windows Server 2012 R2 Standard GUI

C 80G D 50G

E Administrator j nkh.2020 10

30

IP 192.168.1.17 255.255.255.0

192.168.1.2 DNS IP 192.168.1.17 4

jnkh_g.com

10

G01 G02

G01

G02 10

50G SCSI

30G G

6

DNS 10

dns.jnkh _g.com IP

192.168.1.17 DNS FTP

ftp 5

DNS CMD

dns. jnkh _g.com ftp. jnkh _g.com 5

FTP 25

FTP FTP G01 G02

1000 192.168.1.0/24 IP FTP 19

FTP ftp G01 G02

6

2

1		1	CPU4 2.0GHZ 8GB	

1		Windows10 Windows7	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2013	2013
4	Windows Server 2012 R2	ISO	

3

120

4

20

1		2	2	10

		2 4	
2			2
3		C D 4	8

30

1		IP DNS 1	4
2		6 2 2	10
3		2 2 4 2	10
4		3 3	6

DNS 10

1			4

38. 3-8 Windows Server

1

H

/

Windows

DNS DHCP FTP DNS FTP

DHCP IP DNS

FTP

/

20

VMware Windows Server 2012 R2

E:\ \ WIN2012 2GB 180G

SCSI NAT 10

Windows Server 2012 R2 Standard GUI

C 80G D 40G

E Administrator j nkh.2020 10

30

IP 192.168.1.18 255.255.255.0

192.168.1.2 DNS IP 192.168.1.18 4

H

H01

H02 6

C C:\ FTP_H

Administrator s SYSTEM Everyone

15

8 2 1

H02

5

DNS 15

DNS

jnkh _h.com DNS dns.jnkh _h.com

IP 192.168.1.18 DNS f tp.jnkh _h.com

IPv4 DNS 12

DNS CMD

f tp.jnkh _h.com 3

DHCP 10

DHCP IP

192.168.1.2 1/24 - 192.168.1.200/24 DNS 192.168.1.1 8

192.168.1.2 8

DHCP IP DNS 2

FTP 10

FTP FTP FTP

C:\ FTP_H 100

8

ft p FTP FTP 2

2

1		1	CPU4 2.0GHZ 8GB	

1		Windows10 Windows7	64
2	VMwareWorkstation	12.0	12.0 64
3		Microsoft Office 2013	2013
4	Windows Server 2012 R2	ISO	
5		Windows7	NAT

3

120

4

20

1		2 2 2 4	10
2			2
3		C D 4	8

30

1		IP DNS 1	4
2		2 2 2	6
3		3 3	15
4		1	5

DNS 15

1	DNS		2
2		2	4

3		2	6
4		nslookup	3

DHCP 10

1			2
2		IP DNS 2	6
3			2

FTP 10

1		FTP 2	8
2		FTP 1 1	2

5

1			3
2			2

10

1			4
2			3
3			3

39. 3-9 Windows Server

1

I

Windows FTP

/

DNS FTP DNS

FTP

FTP

/

20

VMware Windows Server 2012 R2

E:\ \ WIN2012 2GB 190G

SCSI NAT 10

Windows Server 2012 R2 Standard GUI

C 90G D 60G

E Administrator j nkh.2020 10

30

IP 192.168.1.19 255.255.255.0

192.168.1.2 DNS IP 192.168.1.19 4

jnkh_i.com

10

i 01 i02

i 01

i02 10

80G SCSI

50G RAID-5

G 6

DNS 15

dns.jnkh _i .com IP

192.168.1.19 DNS FTP

ftp dns.jnkh _i .com 10

CMD dns.jnkh _i.com

ftp.jnkh _i.com 5

FTP 20

FTP FTP

i01,i02

15

FTP ftp i 01 i 02

5

2

1		1	CPU4 2.0GHZ 8GB	

1		Windows10 Windows7	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2013	2013
4	Windows Server 2012 R2	ISO	

3

120

4

20

1		2 2 2 4	10
2			2
3		C D 4	8

30

1		IP DNS 1	4
2		6 2 2	10
3		2 2 4 2	10
4		3 3	6

DNS 15

1			4
2			3
3			3
4		nslookup	5

FTP 20

1			4
2		6 4	10
3		FTP 1 1 1	6

5

1			3
2			2

10

1			4
2			3
3			3

40. 3-10 Windows Server

1

J

Windows

DNS WEB FTP

C C:\ WebJ

Administrator s SYSTEM Users

15

DNS 15

dns.jnkh _j.com IP

192.168.1.20 DNS

120

4

20

1		2 2 2 4	10
2			2
3		C D 4	8

30

1		IP DNS 1	4
2		4 2 2	8
3		2 2 2 2	8
4		2 2	10

DNS 15

1			4
2			3
3			3
4		nslookup	5

WWW 20

1	IIS	IIS	2
2		IP 2	10
3		3 2	5
4			3

5

1			4
2			3
3			3

41. 3-11 Linux

1

A Internet

FTP

Linux

Linux

FTP

YUM FTP FTP

Linux 20

VMware 1 CPU 2G NAT

SCSI 40G E:\

\ jnkh

5

Linux

/boot 500M

swap 2G

/

5

www.jnkh_a.com IP

192.168.10.100 255.255.255.0

192.168.10.254

linux 5

lulu luluhan,

123456 2

CRT CRT 3

30

A groupA lulu

groupA 5

/dir_A root

groupA

5

10G SCSI

1

ext4

3

lsblk

l sblk 5

2

sdb1 /dir_A df

df 5

FTP selinux

permissive 5

35

/mnt/yum Linux

/mnt/yum 5

/tmp/bak_yum Yum mv

yum /tmp/bak_yum 3

YUM local.repo Yum

Yum Yum

5

Yum vsftpd

5

vfsftpd

/dir_A

5

vsftpd 4

/dir_A test1, This i s a

test , 3

FTP FTP

lulu l s

5

2

1		1	CPU 4 2.0GHZ 8G	

1		Windows 7/10	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2007	
4	Linux	CentOS7/RHEL 7(ISO)	

3

120

4

Linux 20

1		3 1 1	5
2			5
3		IP 3 2	5
4			2
5	CRT	CRT	3

30

1		2 lulu groupA 3	5
2		2 2 1	5

3

3			3

42. 3-12 Linux

1

A

DNS

jnkh_b.com

Linux

Linux DNS

Linux 20

VMware E:\ Linux

1 2GB 20G SCSI

NAT

5

Linux

/

5

dns.jn kh_b.com IP

192.168.10.10 255.255.255.0

192.168.10.254

linux 5

root 123456 r oot 2

CRT CRT 3

30

IT GID 2000

userA I T id userA

2

/dir_IT userA IT

3

10G SCSI

2

5G

1 2

5

lsblk 5

sdb1 sdb5 ext4

5

/ CRT 1 5 /dir_IT /CRT

df Th

df

5

/mnt/cdrom

3

DNS selinux

permissive 5

35

Linux DNS named.conf

jncc.com 192.168.10.0/24 DNS

WEB DNS DNS

nslookup

	IP	
www.jncc.com	192.168.10.10	WEB
dns.jncc.com	192.168.10.10	DNS

/tmp/yum_bak yum yum

/tmp/yum_bak 2

YUM local.repo Yum

Yum Yum

5

YUM DNS RPM bind

2

named.conf

5

named.rfc1912.zones jncc.com.zx

zone (4)

/var/named WEB

DNS

6

DNS 3

windows IP DNS ping

192.168.10.10, 5

nslookup DNS

3

2

1		1	CPU 4 2.0GHZ 8G	

1		Windows 7/10	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2007	
4	Linux	CentOS7/RHEL 7(ISO)	

3

120

4

Linux 20

1		3 1 1	5

2		2 3	5
3		IP 3 2	5
4	root	root	2
4	CRT	CRT	3

30

1		GID 2 2	4
2		1 1 1	3
3		1 1	2
4		4 1	5
5			3
6		3 2	5
7		1 2	3
8		3 selinux 2	5

35

1	yum	1 1	2
2	Yum	Yum	5
3	DNS	RPM 1 1	2
4	DNS	Named.conf	5
5	DNS	named.rfc1912.zones 1 jncc.com.zx zone 2 jncc.com.zx 1	4
6	DNS	2 4	6
7	DNS	2 1	3
8	DNS	DNS 2 Ping DNS 3	5

9	DNS	3	3

5

1			3
2			2

10

1			4
2			3
3			3

43. 3-13 Linux

1

C Internet

Samba

Linux

Linux

YUM Samba

Linux 20

VMware E:\ Linux

1 2GB 50G SCSI

5

Linux

/boot 500M

swap 2G

/

3

root 123456 ROOT 2

3

nmtui IP IP

ip addr IP IP ip addr

3

sambajnkh_c.com

2

CRT 2

30

A B peter A

A jack B B

/project_a peter

/project_b jack

/project peter jack

prj prj_a prj_b

ID 1500,1501,1502 3

peter jack UID

1600 1601 peter prj_a prj

jack prj_b prj id

peter id jack 4

peter jack

4

/project_a /project_b

/project 3

/project_a

peter prj_a /project_b jack

prj_b /project root prj

3

/project_a peter

,

/project_b jack

/project root prj

3

peter /project /project_a

/project_b

test1 test2 test3

5

samba

selinux permissive 5

35

/mnt/cdrom mnt/cdrom

/ etc/yum.repos.d

5

/ etc/yum.repos.d l ocal.repo

yum cat /etc/yum.repos.d/local.repo 5

RPM samba

5

YUM samba RPM samba

5

samba smb.conf

samba ,

[public]

Path= /public/share

Public = yes

Writeable = yes

browseable = yes

5

samba 3

/public/share test1

test1 This is the samba server test

4

smbclient samba

public 3

2

1		1	CPU 4 2.0GHZ 8G	

1		Windows 7/10	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2007	
4	Linux	CentOS7/RHEL 7(ISO)	

3

120

4

Linux 20

1			5
2			3
3		Root	2
4			3
5		IP ip addr	3
6			2
7	CRT	CRT	2

30

1		3 1.5 ID 1.5	3
		2 UID 1 1	4
			4
2		1	3
		1	3
		1	3
3		Peter 1 3 1 1	5
4		3 selinux 2	5

35

1	YUM	1 2	3
			2
		l ocal.repo 1 4	5

2	samba	RPM 3 RPM samba	5
		Yum 2 Samba 2 RPM 1	5
3		1 1 3	5
4	samba	samba 2 1	3
5		1 1 2	4
		samba 2 1	3

5

1			3
2			2

10

1			4
2			3
3			3

44. 3-14 Linux

1

D

WEB

jnkh_d.com

Linux

Linux

Apache

YUM WWW WWW

Linux 20

VMware 1 CPU 2G NAT

SCSI 1 20G E:\

\ jnkh

5

GUI Linux

20G sda

5

root 123456, admin

123456 5

wwwjnkh_d.com

hostname

5

30

10G SCSI

3

sdb 2 1

5G 2 3G lsblk

4

4

testdata,

4

testdata 1G testdata1 lvs

4

testdata1 ext4

3

/test testdata1 /test

mount df Th

3

http selinux

permissive 5

35

IP 172.16.10.100

24 172.16.10.254 mntui nmtui

5

/mnt/cdrom

3

Yum mv yum

/tmp/bak_yum 2

YUM local.repo Yum

Yum Yum

1		2 1 2	5
2		GUI 2 2 1	5
3		Root 1 admin 2 2	5
4		2 hostname 3	5

30

1		2 1	3
2		2 lsblk 2	4
3	LVM	2 pvdisplay 2	4
		2 vgdisplay 2	4
		2 lvs 2	4
		3	3
		1 1 df -Th 1	3
4		3 selinux 2	5

35

1		Ip	5
2	YUM	1 2	3
		Mv	2
		Local.repo	5
3	WWW	3 2	5
4	WWW	httpd.conf 1 2 IP 2	5
		WWW 2 1	3
		1 cat 2	3

5			4

5

1			3
2			2

10

1			4
2			3
3			3

45. 3-15 Linux

1

E

Internet

Linux

Linux

WWW MariaDB

YUM WWW

MariaDB WWW

Linux 20

VMware 1 CPU 2G NAT

SCSI 2 20G 10G

E:\ \ jnkh

5

Linux

20G sda

5

wwwjnkh_e.com IP

172.16.0.10/24 172.16.0.254

5

root 123456 admin, 123456,

CRT root

5

30

sdb 1 1

lsblk

5

ext4

2

/test /test

df Th 5

/etc/fstab

fstab 3

ls ld /test /test

admin admin ls ld /test

5

admin /test

index.html Welcome to jnkh s web 5

inactive selinux

permissive 5

35

/mnt/cdrom /dev/sr0

5

/tmp/yum_bak yum yum

/tmp/yum_bak 2

YUM local.repo Yum

Yum Yum

5

YUM WWW MariaDB

RPM httpd mariadb rpm

5

WWW IP

WWW 5

mariadb mysql 3

mysql test_d

5

mysql

5

2

1		1	CPU 4 2.0GHZ 8G	

1		Windows 7/10	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2007	
4	Linux	CentOS7/RHEL 7(ISO)	

3

120

4

Linux 20

1		2 1 2	5
2		2 2 1	5
3		2 IP 3	5
4		Root 1 admin 2 CRT 2	5

30

1		3 lsblk 2	5

2			2
3		2 3	5
4			3
5		/test 3 ls ld 1	5
6		2 2 1	5
7		3 selinux 2	5

35

1		2 2 1	5
2	yum	1 1	2
3	yum	local.repo	5
4		3 rpm 2	5
5	WWW	2 3	5
6	mariadb	2 mysql 1	3
7		2 2 1	5
8		mysql 2 2 1	5

5

1			3
2			2

10

1			4
2			3
3			3

46. 3-16 Linux

1

Linux DHCP DHCP IP

DNS

Linux

DHCP

Linux 20

VMware 1 CPU 2G NAT

SCSI 1 20G

E:\ \jnkh

5

Linux

/boot 500M

swap 2G

/

5

, root DHCP

5

client 5

30

IT group_IT, GID=2000 tail /etc/group 5

zhangsan, UID=1500 group_IT id zhangsan 5

zhangsan 123, 2

/zhangsan, ll d

zhangsan group_IT, ll d 5

zhangsan, /zhangsan test1, Hello! This is a test. , cat 5

5

DHCP selinux permissive 3 35

mntui DHCP IP IP 172.16.10.10/24, 172.16.10.254 DNS 172.16.10.253 Edit Connection 5

/mnt/cdrom /dev/sr0 5

/tmp/yum_bak yum yum /tmp/yum_bak 2

YUM local.repo Yum

Yum Yum

5

YUM DHCP RPM

dhcp 5

/usr/share/doc/dhcp -X/dhcpd.conf. example

/etc/dhcp/dhcpd.conf,

Subnet:172.16.10.0

Netmask:255.255.255.0

Range:172.16.10.11 172.16.10.250

Option domain-nameservers:172.16.10.253

Option routers:172.16.10.254

Option broadcast -address:172.16.10.255

Default -lease-time:600

Max lease-time:7200

5

server DHCP

DHCP

3

client automatic

client client

client 5

2

1		1	CPU 4 2.0GHZ 8G	

1		Windows 7/10	64

2

35

1		IP	5
2		2 3	5
3	yum	1 1	2
4	yum	local.repo	5

5

Linux

FTP samba

Linux 20

VMware 1 CPU 2G

SCSI 1 20G

E:\ \jnkh

5

GUI

/boot 500M

swap 2G

/

5

IP

IP 172.16.10.10/24 172.16.10.254

ftp. jnkh_f .com

5

root 123 user1

123 5

30

2

less /etc/services

2

admin 123, 5

/ftp/admin_share /ftp/others

/ftp ll /ftp/admin_share

admin admin, ll

6

admin, /ftp/admin_share

test1, Hello! This is a test. , cat

5

root /ftp/admin_share 775

/ftp/others 750 5

selinux

permissive 5

35

/mnt/cdrom /dev/sr0

5

/tmp/yum_bak yum yum

/tmp/yum_bak 2

YUM local.repo Yum

Yum Yum

5

YUM vsftpd samba sambaclient

RPM vftpd samba

RPM 5

vsftpd.conf /ftp,

3

FTP 2

FTP ls

cd admin_share others

3

smb.conf

[public]

comment=admin share

path=/home/samba

public=yes

writable=yes

printable=no

5

/home/samba smb nmb

3

samba 2

2

1		1	CPU 4 2.0GHZ 8G	

1		Windows 7/10	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2007	
4	Linux	CentOS7/RHEL 7(ISO)	

3

120

4

Linux 20

1		2 1 2	5
2		GUI 2 1 2	5
3		IP 1 2 2	5
4	CRT	2 CRT 3	5

30

1		Ll / ls l /	2
2	Less	Less 1 1	2
3		3 2	5
4		2 2 2	6
5		1 2 2	5
6		1 2	5
7		3 selinux 2	5

35

1		2 3	5
2	Yum	1 Yum 1	2
3	yum	1 local.repo 4	5
4		3 rpm 2	5
5	FTP	FTP 1 1	2
6	FTP	Vsftpd.conf	3
7	FTP	FTP 1 ls 2 1 cd 1	3
8	samba		5
9	samba	1 1 1	3
10	samba	1 1	2

5

1			3
2			2

10

1			4
2			3
3			3

48. 3-18 Linux

1

Linux DHCP DHCP IP

DNS

Linux DHCP

Linux 20

VMware 1 CPU 2G

SCSI 2 20G

10G E:\ \jnkh

5

GUI 20G

sda

5

IP

IP 192.168.10.10/24 192.168.10.254

server 5

root 123 hostname

ip addr IP 5

30

2

/dev/sdb 4G 1

2

5 lsblk

IP 192.168.10.50

255.255.255.0

DNS 192.168.10.253

192.168.10.254

600

5

DHCP 3

windows

DHCP IP 5

DHCP /var/lib/dhcpd/dhcpd.leases

2

2

1		1	CPU 4 2.0GHZ 8G	

1		Windows 7/10	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2007	
4	Linux	CentOS7/RHEL 7(ISO)	

3

120

4

Linux 20

1		2 1 2	5
2		GUI 2 1 2	5
3		IP 1 IP 2 2	5
4	CRT	Hostname 1 ip addr 1 CRT 3	5

30

1	Lsblk		2
2		sdb1 2 sdb5 3	5
3		1.5	3
4		2 /etc/fstab 3	5
5		2 1	3
6		2 2 1	5
7		2 2	4
8		2 selinux 1	3

35

1		2 3	5
2	yum	2 2 1	5
3	yum	yum.repo	5
4		3 rpm 2	5
5	DHCP		5
6	DHCP	2 1	3
7	DHCP	Windows7	5
8	DHCP	/var/lib/dhcpd/dhcpd.leases	2

5

1			3
2			2

10

1			4
2			3
3			3

49. 3-19 Linux

1

G

Linux

Apache FTP

Linux

Apache FTP

Linux 20

VMware 1 CPU 2G

SCSI 1 20G

E:\ \jnkh

5

GUI

3

localhost.localdomain

3

root 123 5G

admin 123,

6

3

30

/dev/sdb 1 1

block

5

2

/share/ftp /etc/fstab

/dev/sdb1 /share/ftp /etc/fstab

5

mount

2

tail /etc/passwd 5

UID GID 3

/share/ftp admin admin

/share/ftp 4

/share/ftp index.html

This is a test! 4

selinux

permissive 5

35

/mnt/cdrom /dev/sr0

5

/etc/yum.repos.d

yum.repo ls l 2

yum.repo Yum

Yum 5

YUM Apache FTP

RPM httpd vsftpd

3

vsftpd.conf

FTP /share/ftp

5

/share/ftp/index.html /var/www/html

2

Apache FTP

3

Apache

2

FTP admin ls

5

Apache

3

2

1		1	CPU 4 2.0GHZ 8G	

1		Windows 7/10	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2007	
4	Linux	CentOS7/RHEL 7(ISO)	

3

120

4

Linux 20

1		2 1 2	5
2		GUI 2 1	3
3		2 1	3
4		2 2 2	6
5			3

30

1		3 2	5
2			2
3		2 /etc/fstab 3	5
4		1 1	2
5		Tail 2 1	3
6		2 2	4
7		2 2	4
8		3 selinux 2	5

35

1		2 3	5
2	yum	1 1	2
3	yum	yum.repo	5
4		1 rpm 2	3

5

2			3
3			3

50. 3-20 Linux

1

jnkh_h.com Linux

DHCP DNS DHCP IP

DNS

Linux

DHCP DNS

Linux 20

VMwaer 1 CPU 2G NAT

SCSI 1 20G

E:\ \ jnkh

5

/boot 500M

swap 2G

/

5

5

IP

IP 192.168.10.253/24 192.168.10.254 DNS

192.168.10.253 server. jnkh_h.com

5

root 123 CRT

hostname ip addr IP CRT

5

30

IT IT

IT,GID 2000, /etc/group 5

5

user1 user2 IT id abc

5

user1 123 user2 456

2

user2

abc 3

/etc/passwd 8 user1

abc 3

user1 l ock

2

user1 unlock

2

/IT, abc IT

3

selinux

permissive 5

35

/mnt/cdrom /dev/sr0

5

/etc/yum.repos.d

yum.repo ls l 2

yum.repo Yum

Yum 5

YUM DHCP DNS RPM

dhcp bind 3

dhcpd.conf

192.168.10.199/24 IP 5

DHCP 2

windows7

DHCP IP 3

named.conf

jnkh_h.com zone

jnkh_h.com.zx 4

/var/named named.localhost abc.com.zx

dns.jnkh_h.com www.jnkh_h.com

192.168.10.253 3

DNS host www.jnkh_h.com host dns.jnkh_h.com 4

2

1		1	CPU 4 2.0GHZ 8G	

1		Windows 7/10	64
2	VMware Workstation	12.0	12.0 64
3		Microsoft Office 2007	
4	Linux	CentOS7/RHEL 7(ISO)	

3

120

4

Linux 20

1		2 1 2	5
2		2 1 2	5
3		IP 1 IP 2 2	5
4	CRT	Hostname 1 ip addr 1 CRT 3	5

30

1		3 2	5
2		2 3	5

3		1	2
4		2 1	3
5	Tail	2 1	3
6			2
7			2
8		1 2	3
9		3 selinux 2	5

35

1		2 3	5
2	yum	1 1	2
3	yum	yum.repo	5
4		2 rpm 1	3
5	DHCP		5
6	DHCP	1 1	2
7	DHCP	Windows7 1 2	3
8	DNS	Named.conf	3
9	DNS	Abc.com.zx	3
10	DNS	2 2	4

5

1			3
2			2

10

1			4
2			3

3			3