Practical No-2

hostname



arp -a

Administrator: Command Pron	npt		_ 0 <u>×</u>
C:\Users\kbp≻arp -a			*
Interface: 192.168.0.14	2 0xb		
Internet Address	Physical Address	Type	
192.168.0.1	30-b5-c2-73-31-06	dvnamic	_
192.168.0.2	00-21-5e-f0-22-38	dynamic	-
192.168.0.48	a4-1f-72-63-47-23	dynamic	
192.168.0.121	a4-1f-72-63-48-a5	dynamic	
192.168.0.126	a4-1f-72-63-90-3a	dynamic	
192.168.0.130	18-03-73-e8-75-5b	dynamic	
192.168.0.145	a4-1f-72-63-7c-c7	dynamic	
192.168.0.153	a4-1f-72-87-ed-cd	dynamic	
192.168.0.154	18-03-73-e8-75-c1	dynamic	
192.168.0.167	c8-1f-66-0b-64-29	dynamic	
192.168.0.179	6c-62-6d-83-28-31	dynamic	
192.168.0.186	6c-62-6d-83-28-3f	dynamic	
192.168.0.187	6c-62-6d-83-28-3d	dynamic	
192.168.0.194	6c-62-6d-83-28-47	dynamic	
192.168.0.195	6c-62-6d-83-2a-35	dynamic	
192.168.0.206	b8-6c-e8-a5-6d-79	dynamic	
192.168.0.208	c8-1f-66-09-55-bd	dynamic	
192.168.0.210	c8-1f-66-0a-e5-42	dynamic	
192.168.0.221	c8-1f-66-0a-ec-c1	dynamic	
192.168.0.224	c8-1f-66-0a-eb-44	dynamic	
192.168.0.228	c8-1f-66-09-b8-f4	dynamic	
192.168.0.229	c8-1f-66-09-ac-45	dynamic	
192.168.0.249	a4-1f-72-87-ed-d9	dynamic	
192.168.0.253	00-8c-fa-68-c3-d2	dynamic	
192.168.0.255	ff-ff-ff-ff-ff	static	
224.0.0.2	01-00-5e-00-00-02	static	
224.0.0.22	01-00-5e-00-00-16	static	
224.0.0.251	01-00-5e-00-00-fb	static	
224.0.0.252	01-00-5e-00-00-fc	static	
239.255.255.250	01-00-5e-7f-ff-fa	static	
Interface: 192.168.56.1	0xe		
Internet Address	Physical Address	Туре	
192.168.56.255	ff-ff-ff-ff-ff	static	
224.0.0.2	01-00-5e-00-00-02	static	
224.0.0.22	01-00-5e-00-00-16	static	
224.0.0.251	01-00-5e-00-00-fb	static	
224.0.0.252	01-00-5e-00-00-fc	static	
239.255.255.250	01-00-5e-7f-ff-fa	static	~





ipconfig

Command Prompt	X
C:\Users\kbp>ipconfig	-
Windows IP Configuration	
Ethernet adapter Local Area Connection:	
Connection-specific DNS Suffix . : Link-local IPv6 Address : fe80::fdd2:3365:7e34:cdd7%11 IPv4 Address : 192.168.0.141 Subnet Mask : 255.255.255.0 Default Gateway : 192.168.0.1	
Ethernet adapter VMware Network Adapter VMnet1:	
Connection-specific DNS Suffix . : localdomain Link-local IPv6 Address : fe80::bcf6:187:a2d7:942%13 IPv4 Address : 192.168.15.1 Subnet Mask : 255.255.255.0 Default Gateway :	=
Ethernet adapter VMware Network Adapter VMnet8:	
Connection-specific DNS Suffix . : localdomain Link-local IPv6 Address : fe80::b963:8e82:3ce3:15f9%15 IPv4 Address : 192.168.146.1 Subnet Mask : 255.255.255.0 Default Gateway :	
Tunnel adapter isatap.{8FC8F767-EBD1-4A42-B754-F92D2688EAC5}:	
Media State Media disconnected Connection-specific DNS Suffix . :	+

ipconfig /release

 ext Administrator Command Prompt

 C:\Users\kbp>ipconfig /release

 Windows IP Configuration

 Ethernet adapter Local Area Connection:

 Connection-specific DNS Suffix .:

 Link-local IPv6 Address:

 Subnet Mask

 Ethernet adapter VirtualBox Host-Only Network:

 Connection-specific DNS Suffix .:

 Link-local IPv6 Address

 Connection-specific DNS Suffix .:

 Link-local IPv6 Address

 Subnet Mask

 Connection-specific DNS Suffix .:

 Link-local IPv6 Address

 Subnet Mask

 Connection-specific DNS Suffix .:

 Link-local IPv6 Address

 Subnet Mask

 Ware Network Adapter VMnet1:

 Connection-specific DNS Suffix .:

 Link-local IPv6 Address

 Ethernet adapter VMware Network Adapter VMnet1:

 Connection-specific DNS Suffix .:

 Link-local IPv6 Address

 Ethernet adapter VMware Network Adapter VMnet8:

 Connection-specific DNS Suffix .:

 Link-local IPv6 Address:

 Ethernet adapter VMware Network Adapter VMnet8:

 Connection-specific DNS Suffix .:

 <

ipconfig /renew

```
Administrator: Command Prompt
    \Users\kbp>ipconfig /renew
Windows IP Configuration
Ethernet adapter Local Area Connection:
     Connection-specific DNS Suffix .:
Link-local IPv6 Address . . . . : fe80::d39:a2b2:b904:7071%11
IPv4 Address. . . . . . . : 192.168.0.142
Subnet Mask . . . . . . . . . : 255.255.255.0
Default Gateway . . . . . . . : 192.168.0.1
Ethernet adapter VirtualBox Host-Only Network:
     Connection-specific DNS Suffix .:
Link-local IPv6 Address . . . . : fe80::71af:5323:b6e:fa49%14
IPv4 Address. . . . . . . : 192.168.56.1
Subnet Mask . . . . . . . . . : 255.255.255.0
Default Gateway . . . . . . . . :
Ethernet adapter VMware Network Adapter VMnet1:
     Connection-specific DNS Suffix . : localdomain
Link-local IPv6 Address . . . . : fe80::165:c535:aa84:fcf9%17
IPv4 Address. . . . . . . : 192.168.109.1
Subnet Mask . . . . . . . . : 255.255.255.0
Default Gateway . . . . . . . . :
Ethernet adapter VMware Network Adapter VMnet8:
     Connection-specific DNS Suffix .:
Link-local IPv6 Address . . . . : fe80::c954:7610:8c1a:9ba1%18
IPv4 Address . . . . . . . : 192.168.204.1
Subnet Mask . . . . . . . . . : 255.255.0
Default Gateway . . . . . . . . :
Tunnel adapter Local Area Connection* 9:
     Media State . . . . . . . . . . . Media disconnected
Connection-specific DNS Suffix . :
Tunnel adapter isatap.{E53DBC53-9704-4064-A89E-C601E0C57DC9}:
     Media State . . . . . . . . . . . Media disconnected
Connection-specific DNS Suffix . :
 funnel_adapter_isatap.{4065F4A5-B7DA-4F81-8D7C-C987728E8ABE};
```

netstat -a

Adminis	strator: Command Prompt			_ _ X
C:\Users	\kbp>netstat -a			*
Active C	oppertions			
ACCIVE	onneccions			
Proto	Local Address	Foreign Address	State	
TCP	0.0.0.0:135	kbp-PC:0	LISTENING	
TCP	0.0.0.0:445	kbp-PC:0	LISTENING	
TCP	0.0.0.0:902	kbp-PC:0	LISTENING	
TCP	0.0.0.0:912	kbp-PC:0	LISTENING	
TCP	0.0.0.0:1025	kbp-PC:0	LISTENING	
TCP	0.0.0.0:1026	kbp-PC:0	LISTENING	
TCP	0.0.0.0:1027	kbp-PC:0	LISTENING	
TCP	0.0.0.0:1028	kbp-PC:0	LISTENING	
TCP	0.0.0.0:1031	kbp-PC:0	LISTENING	
TCP	0.0.0.0:1433	kbp-PC:0	LISTENING	
TCP	0.0.0.0:1947	kbp-PC:0	LISTENING	
TCP	0.0.0.0:2383	kbp-PC:0	LISTENING	
TCP	0.0.0.0:9007	kbp-PC:0	LISTENING	
TCP	127.0.0.1:1434	kbp-PC:0	LISTENING	
TCP	127.0.0.1:12344	kbp-PC:0	LISTENING	
TCP	169.254.155.161:139	kbp-PC:0	LISTENING	
TCP	169.254.252.249:139	kbp-PC:0	LISTENING	
TCP	192.168.0.142:139	kbp-PC:0	LISTENING	
TCP	192.168.56.1:139	kbp-PC:0	LISTENING	
TCP	[::]:135	kbp-PC:0	LISTENING	
TCP	[::]:445	kbp-PC:0	LISTENING	
TCP	[::]:1025	kbp-PC:0	LISTENING	
TCP	[::]:1026	kbp-PC:0	LISTENING	
TCP	[::]:1027	kbp-PC:0	LISTENING	
TCP	[::]:1028	kbp-PC:0	LISTENING	
TCP	[::]:1031	kbp-PC:0	LISTENING	
TCP	[::]:1433	kbp-PC:0	LISTENING	
TCP	[::]:1947	kbp-PC:0	LISTENING	
TCP	[::]:2383	kbp-PC:0	LISTENING	
TCP	[::]:9007	kbp-PC:0	LISTENING	
TCP	[::1]:1434	kbp-PC:0	LISTENING	
UDP	0.0.0.0:500	*:*		
UDP	0.0.0.0:1947	*:*		
UDP	0.0.0.0:4500	*:*		
UDP	0.0.0.0:5355	*:*		
UDP	0.0.0.0:23838	*:*		
UDP	0.0.0.0:51515	***		*



C:\USer3\kbp.netitat -R Interface List Interface List Interface List Interface List I	Administrator: Command Prompt			×
Interface List Interface List 111:100 00 27 00 58 48	C:\Users\kbp>netstat -R			
Intervals 0 131 100 00 27 00 58 48 1Virtual Dox Most-Only Ethernet Adapter for VMnet1 1300 50 56 c0 00 03 1408 00 00 00 00 00 00 00 00 00 00 00 00 0				
1408 50 52 70 00 78 2.9	11 18 03 73 08 73 0f Total	(P) 82570LM Gigshit Network Co	nnection	
1700 50	1488 88 27 88 58 48Virtu	alBox Host-Only Ethernet Adant	er	
<pre>1800 50 50 50 60 00 80 50</pre>	1700 50 56 c0 00 01VMwar	e Virtual Ethernet Adapter for	VMnet1	
1	1800 50 56 c0 00 08VMwar	e Virtual Ethernet Adapter for	VMnet8	
1200 00 00 00 00 00 00 00 Microsoft ISATAP Adapter 1500 00 00 00 00 00 00 00 00 Microsoft ISATAP Adapter #2 1500 00 00 00 00 00 00 00 00 00 Microsoft ISATAP Adapter #2 2000 00 00 00 00 00 00 00 00 00 Microsoft ISATAP Adapter #4 2000 00 00 00 00 00 00 00 00 00 00 00	1Softwa	are Loopback Interface 1		
1000 00	1200 00 00 00 00 00 00 e0 Micro	soft ISATAP Adapter		
1500 00	1000 00 00 00 00 00 00 e0 Micro	soft Teredo Tunneling Adapter		
1980 00	1500 00 00 00 00 00 00 e0 Micro	soft ISATAP Adapter #2		
2200 00 00 00 00 00 00 00 00 00 00 00	1900 00 00 00 00 00 00 e0 Micro	soft ISATAP Adapter #3		
IPv4 Route Table Active Routes: Network Destination Netmask Gateway Interface Metric 127.08.0.0 0.0.0.0 192.168.0.1 192.168.0.142 276 127.08.0.1 225.253.255.255 0n-link 1177.0.0.1 306 127.08.0.0 0.11nk 1177.0.0.1 306 127.253.251.252 255.255.255 0n-link 160.254.155.161 306 160.254.252.249 255.255.255 0n-link 169.254.155.161 276 160.254.255.255 255.255.255 0n-link 169.254.155.161 276 160.254.255.255 255.255.255 0n-link 169.254.255.254 276 160.256.0.142 255.255.255 0n-link 169.254.255.254 276 192.168.0.0.255 255.255.255.255 0n-link 192.168.0.142 276 192.168.0.0.255 255.255.255.255 0n-link 192.168.0.142 276 192.168.0.0.2 240.0.0 0n-link 192.168.0.142 276 192.168.0.0.2 240.0.0.0 0n-link 192.168.0.142 276 192.168.0.0.1 24	2000 00 00 00 00 00 00 e0 Micro	soft ISATAP Adapter #4		
IPv4 Route Table Active Routes: Natwork Descana. Natwork Descana. 127.00.01 Network Descana. 127.00.01 127.01.01 127.01.01 127.01.01 127.01.01 127.01.01 127.01.01 127.01.01 127.01.01 127.01.01 127.01.01 127.01.01 127.01.01 12				
1704 Route Table Active Routes: Active Routes: Network Destination 0:0.0:0 0:0:0:0 127.252.255.255.255 0:0:0:0 127.252.255.255.255.255 0:0:0:0:0 127.252.252.252.255.255.0:0 0:0:0:0:0:0 127.252.252.252.255.255.0:0 0:0:0:0:0:0 169.254.0:0 255.255.255.0:0 169.254.10:0 255.255.255.0:0 169.254.155.161 275.255.255.255 169.254.255.255.255.255.255 0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:0:				
Active Routes: Network Destination Netmask Gateway Interface Metric 0.0.0.0 255.255.255 00 01 192.168.0.1 192.168.0.142 276 127.0.0.1 255.255.255 00 01 16k 127.0.0.1 306 127.0.0.1 255.255.255 00 01 16k 127.0.0.1 306 127.0.0.1 255.255.255 00 01 16k 127.0.0.1 306 169.254.0.0 255.255.0.0 01 16k 169.254.155.161 276 169.254.0.0 255.255.255 00 01 16k 169.254.155.161 276 169.254.252.249 255.255.255 00 01 16k 169.254.252.249 276 169.254.255.255 255.255.255 00 01 16k 169.254.252.249 276 169.254.255.255 255.255.255 00 01 16k 169.254.252.249 276 169.254.255.255 255.255.255 00 01 16k 169.254.252.249 276 192.168.0.0 255.255.255.255 00 01 16k 169.254.252.249 276 192.168.0.0 255.255.255.255 00 01 16k 169.254.252.249 276 192.168.0.122 255.255.255 00 01 16k 169.254.252.249 276 192.168.0.122 276.00 240.0.0 00 01 16k 192.168.0.122 276 192.168.56.1 255.255.255 00 01 16k 192.168.56.1 276 192.168.56.1 255.255.255 00 01 16k 122.76.0.1 366 224.0.0 240.0.0 00 01 16k 122.70.0.1 366 224.0.0 240.0.0 00 01 16k 122.70.0.1 366 224.0.0 240.0.0 00 01 16k 122.70.0.1 366 255.255.255.255.255.255.255 00 00 110 16k 122.70.0.1 366 255.255.255.255.255.255.255 00 00 110 16k 122.70.0.1 366 00.0.0 0.0 00 192.168.0.1 276 255.255.255.255.255.255 00 00 110 16k 122.70.0.1 00 00 10 16k	IPV4 Route Table			
Network Destination Netmask Gateway Interface Metric 0.0.0.0 0.0.0 192.168.0.1 192.168.0.142 276 127.0.0.1 255.255.255.255 00.11nk 127.0.0.1 306 127.0.55.255.255.255.255.255 01.11nk 127.0.0.1 306 127.0.55.255.255.255.255.00 01.11nk 169.254.155.161 276 169.254.0.0 255.255.255 01.11nk 169.254.252.249 276 169.254.0.0 255.255.255 01.11nk 169.254.252.249 276 169.254.252.249 255.255.255 01.11nk 169.254.252.249 276 169.254.255.255.255.255.255 01.11nk 169.254.252.249 276 169.254.255.255.255.255.255 01.11nk 169.254.252.249 276 169.254.255.255.255.255.255 01.11nk 169.254.252.249 276 169.254.255.255.255.255.255 01.11nk 169.254.252.249 276 192.168.0.0 255.255.255.255 01.11nk 169.254.252.249 276 192.168.0.0 255.255.255.255 01.11nk 169.254.252.249 276 192.168.0.0 255.255.255.255 01.11nk 192.168.0.142 276 192.168.0.0 255.255.255.255 01.11nk 192.168.50.1 276 192.168.50.0 225.255.255.255 01.11nk 192.168.50.1 276 192.168.50.0 240.0.0 01.11nk 192.168.50.1 276 192.168.55.255.255.255.255 01.11nk 192.168.50.1 276 192.168.55.255.255.255.255 01.11nk 192.168.50.1 276 224.0.0 240.0.0.0 01.11nk 192.168.50.1 276 255.255.255.255.255.255.255.255 00.111nk 192.168.50.1 276 255.255.255.255.255.255.255.255 00.111nk 192.168.50.1 276 255.255.255.255.255.255.255.255.255 00.111nk 192.168.50.1 276 255.255.255.255.255.255.255.255 00.110nk 192.168.50.1 276 255.255.255.255.255.255.255.255 00.110nk 192.168.50.1 276 255.255.255.255.255.255.255 00.110nk 192.168.50.1 276 255.255.255.255.255.255.255 00.110nk 192.168.50.1 276 255.255.255.255.255.255.255 00.1000 01.10000000000000000000000000	Active Poutes:			
0.0.0.0.0 0.0.0.0.0 192.1458.0.1 192.1458.0.1422 276 127.0.0.0.1 255.255.255.255 0n-link 127.0.0.1 306 127.0.0.0.1 255.255.255.255 0n-link 127.0.0.1 306 1450.254.0.0 255.255.255 0n-link 127.0.0.1 306 160.254.0.0 255.255.0.0 0n-link 169.254.155.161 276 160.254.0.0 255.255.255 0n-link 169.254.155.161 276 160.254.252.249 255.255.255 0n-link 169.254.155.161 276 160.254.255.255 255.255.255 0n-link 169.254.155.161 276 160.254.255.255 255.255.255.255 0n-link 169.254.155.161 276 162.168.0.142 276 0n-link 192.168.0.142 276 192.168.0.12 255.255.255.255 0n-link 192.168.0.142 276 192.168.0.13 255.255.255.255 0n-link 192.168.0.142 276 192.168.0.2 255.255.255.255 0n-link 192.168.0.142 276 192.168.0.2 255.255.255.255 0n-link 192.168.0.142 <td< td=""><td>Network Destination Netmask</td><td>Gateway Interfa</td><td>ce Metric</td><td></td></td<>	Network Destination Netmask	Gateway Interfa	ce Metric	
127.0.0.0.0 255.0.0.0 On-link 127.0.0.1 306 127.0.0.1 255.255.255 On-link 127.0.0.1 306 127.255.255.255 255.255.255 On-link 127.0.0.1 306 169.254.0.0 255.255.0.0 On-link 169.254.155.161 276 169.254.0.0 255.255.255 On-link 169.254.155.161 276 169.254.123.124 255.255.255 On-link 169.254.155.161 276 169.254.235.255 255.255.255 On-link 169.254.252.249 276 169.254.235.255 255.255.255.255 On-link 192.2168.0 276 192.168.0.0 255.255.255.255 On-link 192.168.0 127.60 192.168.0.142 255.255.255.255 On-link 192.168.0 127.60 192.168.0.255 255.255.255.255 On-link 192.168.50.1 276 192.168.0.255 255.255.255.255 On-link 192.168.50.1 276 192.168.0.252 240.0.0.0 On-link 192.168.50.1 276 192.168.50.1 255.255.255.255.255 On-link 192.168.50.1 276	0.0.0.0 0.0.0.0	192.168.0.1 192.168.0.	142 276	
127.0.0.1 255.255.255 On-link 127.0.0.1 306 127.255.255.255 255.255.255 On-link 169.254.155.161 276 169.254.0.0 255.255.255 On-link 169.254.155.161 276 169.254.155.161 255.255.255 On-link 169.254.155.161 276 169.254.255.255 255.255.255 On-link 169.254.255.249 276 169.254.255.255 255.255.255 On-link 169.254.252.249 276 169.254.255.255 255.255.255 On-link 169.254.252.249 276 192.168.0.142 255.255.255.255 On-link 169.254.252.249 276 192.168.0.122 255.255.255.255 On-link 192.168.0.142 276 192.168.0.122 255.255.255.255 On-link 192.168.56.12 276 192.168.56.125 255.255.255.255 On-link 192.168.56.12 276 192.168.56.125 255.255.255.255 On-link 192.168.56.12 276 192.168.56.12 276.255.255.255 On-link 192.168.56.12 276 192.168.56.12 276 On-link 192.16	127.0.0.0 255.0.0.0	On-link 127.0.	0.1 306	
127.255.255.255.255.255.255.255 On-link 127.06.0.1 306 169.254.0.0 255.255.0.0 On-link 169.254.155.161 276 169.254.0.0 255.255.255 On-link 169.254.252.249 276 169.254.252.249 255.255.255 On-link 169.254.252.249 276 169.254.252.249 255.255.255 On-link 169.254.252.249 276 169.254.255.255 255.255.255 On-link 169.254.252.249 276 169.254.255.255 255.255.255 On-link 169.254.252.249 276 192.168.0.142 255.255.255.0 On-link 192.168.0.142 276 192.168.0.255 255.255.255.255 On-link 192.168.56.1 276 192.168.56.1 255.255.255.255 On-link 192.168.56.1 276 192.168.56.1 255.255.255.255 On-link 192.168.56.1 276 192.168.56.1 255.255.255.255 On-link 192.168.56.1 276 224.0.0.0 240.0.0.0 On-link 192.168.56.1 276 224.0.0.0 240.0.0.0 On-link 192.168.56.1 276	127.0.0.1 255.255.255.255	On-link 127.0.	0.1 306	
169.254.0.0 255.255.0.0 On-link 169.254.155.161 276 169.254.155.161 255.255.255 On-link 169.254.155.161 276 169.254.255.255 255.255.255 On-link 169.254.155.161 276 169.254.255.255 255.255.255 On-link 169.254.252.249 276 169.254.255.255 255.255.255 On-link 169.254.252.249 276 169.254.255.255 255.255.255 On-link 169.254.252.249 276 192.168.0 255.255.255.255 On-link 192.168.0.12 276 192.168.56.1 255.255.255.255 On-link 192.168.56.12 276 192.168.56.1 255.255.255.255 On-link 192.168.56.12 276 192.168.56.252 255.255.255 On-link 192.168.56.12 276 192.168.56.12 276.52 On-link 192.168.56.12 276 192.168.60.12 276 On-link 192.168.56.12 276 192.168.60.12 276 On-link 192.168.56.12 276 224.0.0.0 240.0.0.0 On-link 192.168.56.12 276	127.255.255.255 255.255.255.255	On-link 127.0.	0.1 306	
169.254.00 255.255.255 On-link 169.254.252.252 276 169.254.252.255 255.255.255 On-link 169.254.252.249 276 169.254.252.255 255.255.255 On-link 169.254.252.249 276 169.254.255.255 255.255.255 On-link 169.254.252.249 276 169.254.255.255 255.255.255 On-link 169.254.252.249 276 192.168.0 255.255.255.255 On-link 169.268.0.12 276 192.168.0 125.255.255.255 On-link 192.168.0.12 276 192.168.56.0 255.255.255.255 On-link 192.168.56.1 276 192.168.56.1 275.255.255.255 On-link 192.168.56.1 276 192.168.56.1 276 240.0 On-link 192.168.56.1 276 192.168.56.2 240.0 On-link 192.168.56.1 276 224.0.0 240.0.0 On-link 192.168.56.1 276 224.0.0 240.0.0 On-link 192.168.0.142 276 224.0.0.0 240.0.0 On-link 192.168.0.12 276	169.254.0.0 255.255.0.0	On-link 169.254.155.	161 276	
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255:255:255:255 255:255:255 On-link 192:168:0:142 276 255:255:255:255:255:255:255 On-link 169:254:252:249 276 255:255:255:255:255:255:255:255 On-link 169:254:155:161 276 Persistent Routes: Netmask Gateway Address Metric 0.0.0 0.0.0.0 0.0.0.0 192:168:0:1 Default IPv6 Route Table If Metric Network Destination Gateway 0n-link 1 306::1/128 0n-link 1 306::1/128 On-link 1 276 0.0.1ink Image: State Stat	255.255.255.255 255.255.255.255	On-link 127.0.	8.1 306 5.1 375	
255.255.255.255 255.255.255 0n-link 169.254.252.249 276 255.255.255.255 255.255.255 0n-link 169.254.155.161 276 Persistent Routes: Network Address Netmask Gateway Address Metric 256.255.255 IPv6 Route Table IPv6 Routes: If Metric Network Destination Gateway 1 396 ::1/128 On-link 14 276 fe80::/64 On-link Image: Second Sec	255.255.255.255.255.255.255.255.255	On-link 192.168.5	1/12 275	
133.133.133.133.133.133 On-link 109.134.135.143 176 255.255.255.255 255.255.255 On-link 169.254.155.161 276 Persistent Routes: Network Address Netmask Gateway Address Metric 192.168.0.1 Default IPv6 Route Table IPv6 Routes: If Metric Network Destination Gateway 1 306 ::1/128 On-link 14 276 fe80::/64 On-link IV IV IV		On-link 169 254 252	240 276	
Persistent Routes: Network Address Netmask Gateway Address Metric 0.0.0.0 0.0.0 192.168.0.1 Default IPv6 Route Table Active Routes: If Metric Network Destination Gateway 1 306 ::1/128 On-link 14 276 fe80::/64 On-link 11 276 fe80::/64 On-link	255.255.255.255 255.255.255.255	On-link 169.254.155.	161 276	
Persistent Routes: Network Address Netmask Gateway Address Metric 0.0.0.0 0.0.0 192.168.0.1 Default IPv6 Route Table Active Routes: If Metric Network Destination Gateway 1 306 ::1/128 On-link 14 276 fe80::/64 On-link 11 276 fe80::/64 On-link				
Network Address Netmask Gateway Address Metric E 0.0.0.0 0.0.0.0 192.168.0.1 Default IPv6 Route Table Image: Control of the state of the stat	Persistent Routes:			
0.0.0.0 0.0.0.0 192.168.0.1 Default IPv6 Route Table	Network Address Netmask	Gateway Address Metric		=
IPv6 Route Table Active Routes: If Metric Network Destination Gateway 1 306 ::1/128 On-link 14 276 fe80::/64 On-link 11 276 fe80::/64 On-link	0.0.0.0 0.0.0.0	192.168.0.1 Default		
IPv6 Route Table Active Routes: If Metric Network Destination Gateway 1 396 ::1/128 On-link 14 276 fe80::/64 On-link 11 276 fe80::/64				
IPv6 Route Table Active Routes: If Metric Network Destination Gateway 1 306 ::1/128 On-link 14 276 fe80::/64 On-link 11 276 fe80::/64 On-link				
Active Routes: If Metric Network Destination Gateway 1 306 ::1/128 On-link 14 276 fe80::/64 On-link 11 276 fe80::/64 On-link	IPv6 Route Table			
Active Routes: If Metric Network Destination Gateway 1 306 ::1/128 On-link 14 276 fe80::/64 On-link 11 276 fe80::/64 On-link				
If Metric Network Destination Gateway 1 306 ::1/128 On-link 14 276 fe80::/64 On-link 11 276 fe80::/64 On-link	Active Routes:			
1 306 ::1/128 On-link 14 276 fe80::/64 On-link 11 276 fe80::/64 On-link	If Metric Network Destination	Gateway		
14 276 Te80::/64 On-link 11 276 fe80::/64 On-link	1 306 ::1/128	On-link		
11 2/6 Te80::/64 On-link	14 276 fe80::/64	On-link		
	11 2/6 Te80::/64	On-link		

2			
Received	Sent		
86455954	11171063		
72658	69430		
269768	28724		
0	0		
0	0		
0			
	Received 86455954 72658 269768 0 0 0	Received Sent 86455954 11171063 72658 69430 269768 28724 0 0 0 0 0 0	Received Sent 86455954 11171063 72658 69430 269768 28724 0 0 0 0 0 0

Ping google.com

Administrator: Command Prompt	
C:\Users\kbp>ping google.com	A
Pinging google.com [216.58.220.174] with 32 bytes of data: Reply from 216.58.220.174: bytes=32 time=3ms TTL=58 Reply from 216.58.220.174: bytes=32 time=10ms TTL=58 Reply from 216.58.220.174: bytes=32 time=2ms TTL=58 Reply from 216.58.220.174: bytes=32 time=2ms TTL=58	E
Ping statistics for 216.58.220.174: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 2ms, Maximum = 10ms, Average = 4ms	
C·\llsers\khp>	
	-

Administrator: Command Prompt	- 0 <mark>- x</mark> -
C:\Users\kbp>ping -n 6 192.168.0.141	<u>^</u>
Pinging 102 168 0 141 with 32 bytes of data:	
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128	=
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128 Reply from 192.168.0.141: bytes=32 time<1ms TTL=128	
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128 Reply from 192.168.0.141: bytes=32 time<1ms TTL=128	
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128	
Ping statistics for 192.168.0.141:	
Packets: Sent = 6, Received = 6, Lost = 0 (0% loss), Approximate round trip times in milli-seconds:	
Minimum = Oms, Maximum = Oms, Average = Oms	
C:\Users\kbp>	
	-



Administrator: Command Prompt

C:\Users\kbp>ping -l 4 192.168.0.141

Pinging 192.168.0.141 with 4 bytes of data: Reply from 192.168.0.141: bytes=4 time<1ms TTL=128 Reply from 192.168.0.141: bytes=4 time<1ms TTL=128 Reply from 192.168.0.141: bytes=4 time<1ms TTL=128 Reply from 192.168.0.141: bytes=4 time<1ms TTL=128

Ping statistics for 192.168.0.141: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\kbp>



ping -f 192.168.0.141

_ 0 _X

cx Administrator Command Prompt
C:\Users\kbp>ping -f 192.168.0.141
Pinging 192.168.0.141: bytes=32 time-2ms TTL=128
Reply from 192.168.0.141: bytes=32 time(1ms TTL=128
Reply from 192.168.0.141: bytes=32 time(1ms TTL=128
Ping statistics for 192.168.0.141:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 2ms, Average = 0ms
C:\Users\kbp>



ping -t 192.168.0.141

```
Administrator: Command Prompt
                                                                                                                                                                 _ 0 ×
 C:\Users\kbp>ping -t 192.168.0.141
Pinging 192.168.0.141 with 32 bytes of data:
Pinging 192.168.0.141 with 32 bytes of data:
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
                                                                                                                                                                                            Ξ
Reply from 192.168.0.141: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.0.141:
Packets: Sent = 11, Received = 11, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
 Control-C
  °C
 C:\Users\kbp>
                         \sim
```

route print

Administrator: Command Prompt		×
C:\Users\kbp>route print		
Interface List	onection	
1408 00 27 00 58 48VirtualBox Host-Only Ethernet Adapte	er	
1700 50 56 c0 00 01VMware Virtual Ethernet Adapter for	VMnet1	
1800 50 56 c0 00 08VMware Virtual Ethernet Adapter for	VMnet8	
1200 00 00 00 00 00 00 00 e0 Microsoft ISATAP Adapter		
1000 00 00 00 00 00 00 00 Microsoft Teredo Tunneling Adapter		
1500 00 00 00 00 00 00 00 e0 Microsoft ISATAP Adapter #2		
1900 00 00 00 00 00 00 00 00 Microsoft ISATAP Adapter #3		
IPv4 Route Table		
Network Destination Netmask Gateway Interfac	ce Metric	=
0.0.0.0 0.0.0.0 192.168.0.1 192.168.0.1	142 276	
127.0.0.0 255.0.0.0 On-link 127.0.0	a.1 306	
127.0.0.1 255.255.255 On-link 127.0.0	9.1 306	
12/.255.255.255.255.255.255 OR-110K 12/.0.6	9.1 306 161 276	
169.254.0.0 255.255.0.0 On-link 169.254.252.3	249 276	
169.254.155.161 255.255.255 On-link 169.254.155.2	161 276	
169.254.252.249 255.255.255 On-link 169.254.252.3	249 276	
169.254.255.255.255.255.255.255 OR-110K 169.254.155.2	161 276 249 276	
192.168.0.0 255.255.25 0 On-link 192.168.0.3	142 276	
192.168.0.142 255.255.255.255 On-link 192.168.0.1	142 276	
192.168.0.255 255.255.255 On-link 192.168.0.1	142 276	
192.168.56.0 255.255.255.0 On-link 192.168.56	5.1 276	
192.168.56.255 255.255.255 0n-11nk 192.168.56	5.1 276	
224.0.0.0 240.0.0.0 On-link 127.0.0	a.1 306	
224.0.0.0 240.0.0.0 On-link 192.168.50	5.1 276	
224.0.0.0 240.0.0 On-link 192.168.0.3	142 276	
244.0.0 249.0.0 00-11nk 169.224.25.	161 276	
255.255.255.255 255.255.255.255 On-link 127.0.6	a.1 306	
255.255.255.255 255.255.255 On-link 192.168.56	5.1 276	
255.255.255.255 255.255.255.255 On-link 192.168.0.1	142 276	
255,255,255,255,255,255,255,255,255,255	161 276	
Persistent Routes:		
Network Address Netmask Gateway Address Metric		
0.0.0.0 0.0.0.0 192.168.0.1 Detault		
IPv6 Route Table		
Active Routes:		
IT Metric Network Destination Gateway		
14 276 fe80::/64 On-link		-

ping print 192*

Administrator: Command Prompt		
C:\Users\kbp>route print 192*		
Totoofaco list		
11 18 03 73 e8 7a 9f Intel(R) 82579LM	Gigabit Network Conne	ction
1408 00 27 00 58 48VirtualBox Host-(Only Ethernet Adapter	
1700 50 56 c0 00 01VMware Virtual Et	thernet Adapter for VM	Inet1
1800 50 56 c0 00 08VMware Virtual E	thernet Adapter for VM	Inet8
1Software Loopback	c Interface 1	
1200 00 00 00 00 00 00 00 e0 Microsoft ISATAP	Adapter	
1000 00 00 00 00 00 00 00 e0 Microsoft Teredo	Tunneling Adapter	
1500 00 00 00 00 00 00 00 e0 Microsoft ISATAP	Adapter #2	
20 00 00 00 00 00 00 00 00 00 00 11CTOSOFT ISATAP	Adapter #4	
IPv4 Route Table		
		======
Active Routes:		
Network Destination Netmask Ga	eway Interface	Metric
192.168.0.0 255.255.255.0 On-	102.168.0.142	276
192.100.0.142 255.255.255.255 0n-	link 192.100.0.142	276
192.168.56.0 255.255.255.0 On-	link 192.168.56.1	276
192.168.56.1 255.255.255.255 On-	link 192.168.56.1	276
192.168.56.255 255.255.255.255 On-3	link 192.168.56.1	276
		======
Persistent Routes:		
None		
TRv6 Route Table		
Active Routes:		
None		
Persistent Routes:		
None		
		=
C:\Users\kbp>		
		-

tracert google.com

```
_ D X
Administrator: Command Prompt
                                                                                                                                                    .
C:\Users\kbp>tracert google.com
Tracing route to google.com [216.58.220.14]
over a maximum of 30 hops:
                                             <1 ms 192.168.0.1

1 ms 138-37-87-183.mysipl.com [183.87.37.138]

* Request timed out.

2 ms 72.14.196.213

2 ms 209.85.142.228

3 ms 74.125.37.235

2 ms bom05s05-in-f14.1e100.net [216.58.220.14]
            <1 ms
1 ms
*
                            <1 ms
<1 ms
*
              3 ms
                             3 ms
2 ms
              2 ms
2 ms
                             11 ms
 Trace complete.
C:\Users\kbp>
                                                                                                                                                    E
```



tracert 103.213.213.226



Practical No-3



%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

r1(config-if)#exit

r1(config)#interface f0/1

r1(config-if)#ip address 20.0.0.1 255.0.0.0

r1(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

r1(config-if)#exit

r1(config)#

Router0	
Physical Config CLI	
IOS Command Line Interface	
<pre>r1>en r1#config t Enter configuration commands, one per line. End with CNTL/Z. r1(config)#ip route 30.0.0.0 255.0.0.0 10.0.0.2 r1(config)#^Z r1# %SYS-5-CONFIG_I: Configured from console by console shoe ip route</pre>	*
<pre>% Invalid input detected at '^' marker. rl\$show ip route Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter are * - candidate default, U - per-user static route, o - ODR P - periodic downloaded static route</pre>	a
Gateway of last resort is not set C 10.0.0.0/8 is directly connected, FastEthernet0/0 C 20.0.0.0/8 is directly connected, FastEthernet0/1 S 30.0.0.0/8 [1/0] via 10.0.0.2 r1#	-
Сору	Paste

Router r1

Router>en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname r2

r2(config)#interface f0/0

r2(config-if)#ip address 10.0.0.2 255.0.0.0

r2(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

r2(config-if)#exit

r2(config)#interface f0/1

r2(config-if)#ip address 30.0.0.1 255.0.0.0

r2(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

r2(config-if)#exit



Practical No-5 (OSPF)



Router>en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname r1

r1(config)#interface f0/0

r1(config-if)#ip address 192.1.1.1 255.255.255.0

r1(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

r1(config-if)#exit

r1(config)#router ospf 1

r1(config-router)#network 192.1.1.1 0.0.0.255 area 0

r1(config-router)#^Z

r1#

%SYS-5-CONFIG_I: Configured from console by console

r1#show ip ospf neighbor

r1#

🥐 Router0				
Physical Config Cl	L			
	IOS Com	mand Line	Interface	
<pre>r1>en r1#config t Enter configuration co r1(config)#router osp r1(config-router)#net r1(config-router)#^2 r1# %SYS-5-CONFIG_I: Config</pre>	commands, one per of 1 work 192.1.1.1 (igured from cons	r line. End).0.0.255 are sole by conse	with CNTL/Z. ea O ple	•
rl#show ip ospf neigh	bor			
Neighbor ID Pri 192.1.1.2 1 0 r1#	State FULL/BDR	Dead Time 00:00:39	Address 192.1.1.2	Interface FastEthernet0/

Router>en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname r2

r2(config)#interface f0/0

r2(config-if)#ip address 192.1.1.2 255.255.255.0

r2(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

r2(config-if)#exit

r2(config)#router ospf 1

r2(config-router)#network 192.1.1.0 0.0.0.255 area 0

r2(config-router)#^Z

r2#

%SYS-5-CONFIG_I: Configured from console by console

r2#show

00:11:22: %OSPF-5-ADJCHG: Process 1, Nbr 192.1.1.1 on FastEthernet0/0 from LOADING to FULL, Loading Done

% Incomplete command.

r2#show ip ospf neighbor

192.1.1.1 1 FULL/DR 00:00:39 192.1.1.1 FastEthernet0/0

r2#

Router1
Physical Config CLI
IOS Command Line Interface
Router>en Router#config t Enter configuration commands, one per line. End with CNTL/Z. Router(config)#hostname r2 r2(config)#interface f0/0 r2(config-if)#ip address 192.1.1.2 255.255.255.0 r2(config-if)#no shut
<pre>%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t o up</pre>
<pre>r2(config-if)#exit r2(config)#router ospf 1 r2(config-router)#network 192.1.1.0 0.0.0.255 area 0 r2(config-router)#^2 r2# %SYS-5-CONFIG_I: Configured from console by console r2#show 00:11:22: %OSPF-5-ADJCHG: Process 1, Nbr 192.1.1.1 on FastEthernet0/0 from LOADI NG to FULL, Loading Done</pre>
<pre>% Incomplete command. r2#show ip ospf neighbor Neighbor ID Pri State Dead Time Address Interface 192.1.1.1 1 FULL/DR 00:00:39 192.1.1.1 FastEthernet0/</pre>
0 r2# Copy Paste

Practical No:-4



Configure Router R0:

Router>en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface f0/0

Router(config-if)#ip address 10.0.0.1 255.0.0.0

Router(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

Router(config-if)#exit

Router(config)#interface f1/0

Router(config-if)#ip address 20.0.0.1 255.0.0.0

Router(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Router(config-if)#exit

Router(config)#interface eth6/0

Router(config-if)#ip address 30.0.0.1 255.0.0.0

Router(config-if)#no shut

%LINK-5-CHANGED: Interface Ethernet6/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet6/0, changed state to up

Router(config-if)#exit

Configure Router R1 :

Router>en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#interface f0/0

Router(config-if)#ip address 10.0.0.2 255.0.0.0

Router(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Router(config-if)#exit

Router(config)#interface f1/0

Router(config-if)#ip address 40.0.0.1 255.0.0.0

Router(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Router(config-if)#exit

IP Configuration For PC0:

PC0					
Physical Config D	esktop				-
IP Configuration © DHCP © Static	ו ז		X	Web Browser	
IP Address Subnet Mask Default Gateway DNS Server	20.0.0.2 255.0.0.0 20.0.0.1				
E Mail	PPPoE Dialer	Text Editor		CISCO IP Communicator	
IP Configurati	on For P	<u>C1:</u>	2		-

PC1 Physical Config De	sktop				
DHCP Static			X	Web Browser	
IP Address Subnet Mask Default Gateway DNS Server	30.0.0.2 255.0.0.0 30.0.0.1	Text Editor		Cisco IP Communicator	
IP Configuration	on For P(<u>C2:</u>	XI		
IP Configuration DHCP Static IP Address Subnet Mask Default Gateway DNS Server	40.0.0.2 255.0.0.0 40.0.0.1		X	Web Browser	
E Mail P	PPoE Dialer	Text Editor		Cisco IP Communicator	

Configure RIP to Router R0:

Router>en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#router rip

Router(config-router)#network?

network

Router(config-router)#network 10.0.0.0

Router(config-router)#network 20.0.0.0

Router(config-router)#network 30.0.0.0

Router(config-router)#^Z

🥐 Router0			
Physical Config CLI			
IOS Command Line Interface			
	*		
Router>en			
Router#config t			
Enter configuration commands, one per line. End with CNTL/Z. Pouter (config) frouter rip			
Router (config-router) #network?			
network			
Router(config-router) #network 10.0.0.0	E		
Router(config-router) #network 30.0.0.0			
Router(config-router) #^Z			
Router#			
*SIS-S-CONFIG_1: Configured from console by console	~		
Gam			
Copy	Paste		

Configure RIP to Router R1:

Router>en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#router rip

Router(config-router)#network?

network

Router(config-router)#network 10.0.0.0

Router(config-router)#network 40.0.0.0

Router(config-router)#^Z

Router1			
Physical Config CLI			
IOS Command Line Interface			
Router>en			
Router#config t			
Enter configuration commands, one per line. End with CNTL/Z.			
Router (config-router) #network?			
network			
Router(config-router) #network 40.0.0.0			
Router(config-router)#^Z			
%SYS-5-CONFIG_I: Configured from console by console			
Copy Paste			

See Routing Table For Router R0:

Router#show ip rip database

🥐 Router0				
Physical	Config	CLI		
		IOS	6 Command Line Interface	
Router>e Routertc Enter co Router(c Router(c Router(c Router(c Router(c Router(c Router(c Router)	n onfig t nfiguratio onfig)#rou onfig-rou onfig-rou onfig-rou onfig-rou ONFIG I:	on com uter r: ter) #ne ter) #ne ter) #ne ter) #ne ter) #ne	mands, one per line. End with CNTL/Z. ip etwork? etwork 10.0.0.0 etwork 20.0.0.0 etwork 30.0.0.0 z ured from console by console	*
Router#s 10.0.0.0 20.0.0.0 30.0.0.0 40.0.0.0 [1] Router#	- how ip rij /8 /8 /8 via 10.0.	p datak direct direct direct	base tly connected, FastEthernet0/0 tly connected, FastEthernet1/0 tly connected, Ethernet6/0 0:00:25, FastEthernet0/0	
			Сору	Paste

See Routing Table For Router R1:

Router#show ip rip database

🤻 Router1 🗖 🗖 🗖
Physical Config CLI
IOS Command Line Interface
Router>en Router‡config t Enter configuration commands, one per line. End with CNTL/Z. Router(config)‡router rip Router(config-router)‡network? network Router(config-router)‡network 10.0.0.0 Router(config-router)‡network 40.0.0.0 Router(config-router)‡rZ Router‡ \$SYS-5-CONFIG_I: Configured from console by console Router‡show ip rip database 10.0.0.0/8 directly connected, FastEthernet0/0 20.0.0.0/8 [1] via 10.0.0.1, 00:00:03, FastEthernet0/0 30.0.0.0/8 directly connected, FastEthernet1/0 Router‡
munotes.inPRACTICAL 6

<u>Aim:</u>Configuring UDP and TCP

1] Click server/ Desktop/IP Configuration /Static [http client]:-



2] Click PC0/ Desktop/IP Configuration /Static [multiserver]:-

Multiserver		
nysical Config D	esktop Software/Services	
IP Configurati	on	× http://
Interface	FastEthernetO	
- IP Configuration -		
О рнср 🧿) Static	/eb Brows
IP Address	192.168.1.5	
Subnet Mask	255.255.255.0	
Default Gateway		
DNS Server		
lick PC0/ Desktop/	TP Configuration /Static [http client]:-	
Click PC0/ Desktop/	IP Configuration /Static [http client]:-	
Click PC0/ Desktop/	IP Configuration /Static [http client]:-	
Click PC0/ Desktop/ HTTP P Configuration	IP Configuration /Static [http client]:-	
Click PC0/ Desktop/	TP Configuration /Static [http client]:-	X X
Click PC0/ Desktop/	TP Configuration /Static [http client]:-	x X
Click PC0/ Desktop/	TP Configuration /Static [http client]:-	X
Click PC0/ Desktop/ HTTP Configuration IP Configuration O DHCP IN S IP Address Subnet Mask	TP Configuration /Static [http client]:-	X Web Brows
Click PC0/ Desktop/	TP Configuration /Static [http client]:-	X Web Brows
Click PC0/ Desktop/	TP Configuration /Static [http client]:-	X Web Brows

4] Click PC1/ Desktop/IP Configuration /Static [ftp client]:-

🤻 FTP		
IP Configuration	×	
□ IP Configuration □ DHCP ③ Sta	tic	http:
IP Address	192.168.1.2	
Subnet Mask	255.255.255.0	Web Browser
Default Gateway		
DNS Server		

5] Click PC2/ Desktop/IP Configuration /Static [dns client]:-

R DNS		_	
IP Configuration		×	
IP Configuration	atic	http://	2
Subnet Mask	255.255.255.0	Web Brow	ser
Default Gateway			
DNS Server			

6] Click PC3/ Desktop/IP Configuration /Static [Email client]:-

🤻 E-MAIL		
IP Configuration	X	
IP Configuration		http:
🔰 🔘 DHCP 🛛 💿 Sta	tic	
IP Address	192.168.1.4	
Subnet Mask	255.255.255.0	Web Browser
Default Gateway		
DNS Server		
7] Command prompt for	• multiserver:-	

🔍 Server1	
Physical Config Desktop Software/Services	
Command Prompt	
Packet Tracer SERVER Command Line 1.0 SERVER>PING 192.168.1.255	
Pinging 192.168.1.255 with 32 bytes of data:	
<pre>Request timed out. Request timed out. Reply from 192.168.1.2: bytes=32 time=Oms TTL=128 Reply from 192.168.1.4: bytes=32 time=Oms TTL=128 Reply from 192.168.1.3: bytes=32 time=Oms TTL=128 Reply from 192.168.1.1: bytes=32 time=Oms TTL=128 Reply from 192.168.1.2: bytes=32 time=Oms TTL=128 Reply from 192.168.1.3: bytes=32 time=Oms TTL=128 Reply from 192.168.1.4: bytes=32 time=IGms TTL=128 Ping statistics for 192.168.1.255: Packets: Sent = 4, Received = 8, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = Oms, Maximum = 76ms, Average = 19ms SERVER></pre>	

8] Command prompt for http client:-

```
🖲 НТТР
                                                                                                  Desktop
            Config
Physical
                                  Software/Services
  Command Prompt
                                                                                                      X
                                                                                                       ~
  Packet Tracer PC Command Line 1.0
PC>PING 192.168.1.255
  Pinging 192.168.1.255 with 32 bytes of data:
  Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
Reply from 192.168.1.3: bytes=32 time=0ms TTL=128
   Reply from 192.168.1.4: bytes=32 time=0ms TTL=128
   Reply from 192.168.1.5: bytes=32 time=16ms TTL=128
  Reply from 192.168.1.2: bytes=32 time=Oms TTL=128
  Reply from 192.168.1.3: bytes=32 time=0ms TTL=128
Reply from 192.168.1.4: bytes=32 time=0ms TTL=128
   Reply from 192.168.1.5: bytes=32 time=16ms TTL=128
   Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.3: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.4: bytes=32 time=0ms TTL=128
Reply from 192.168.1.5: bytes=32 time=15ms TTL=128
   Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
   Reply from 192.168.1.3: bytes=32 time=Oms TTL=128
  Reply from 192.168.1.4: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.5: bytes=32 time=0ms TTL=128
  Ping statistics for 192.168.1.255:
  Packets: Sent = 4, Received = 16, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
       Minimum = Oms, Maximum = 16ms, Average = 2ms
  PC>
```

9] Command prompt for ftp client:-

₹ FTP	. 🗆 🗙
Physical Config Desktop Software/Services	
Command Prompt	
Packet Tracer PC Command Line 1.0 PC>PING 192.168.1.255	
Pinging 192.168.1.255 with 32 bytes of data:	
Reply from 192.168.1.1: bytes=32 time=16ms TTL=128	
Reply from 192.168.1.3: bytes=32 time=16ms TTL=128	
Reply from 192.168.1.4: bytes=32 time=16ms TTL=128	
Reply from 192.168.1.5: bytes=32 time=31ms TTL=128	
Reply from 192.168.1.1: Bytes=32 time=0ms ffL=128 Deply from 192.168.1.3: bytes=32 time=15ms TTL=128	
Reply from 192.168.1.4: bytes=32 time=15ms TTL=128	
Reply from 192.168.1.5: bytes=32 time=15ms TTL=128	
Reply from 192.168.1.1: bytes=32 time=0ms TTL=128	
Reply from 192.168.1.3: bytes=32 time=0ms TTL=128	
Reply from 192.168.1.4: bytes=32 time=0ms TTL=128	
Reply from 192.168.1.5: bytes=32 time=16ms TTL=128	
Reply from 192.168.1.1: bytes=32 time=0ms TTL=128	
Reply from 192.168.1.3: bytes=32 time=0ms TTL=128	
Reply from 192.168.1.4: bytes=32 time=0ms TTL=128 Deply from 192.168.1.5: bytes=32 time=0ms TTL=128	
Keply Hom 192.100.1.3. Bydes-02 dime-oms Hib-120	
Ping statistics for 192.168.1.255:	
Packets: Sent = 4, Received = 16, Lost = 0 (0% loss),	
Approximate round trip times in milli-seconds:	
Minimum = Oms, Maximum = 31ms, Average = 8ms	
PC>	×

10] Command prompt for dns client:-

```
🖲 DNS
                                                                                Physical
                   Desktop
          Config
                             Software/Services
 Command Prompt
                                                                                   X
                                                                                    ~
 Packet Tracer PC Command Line 1.0
 PC>PING 192.168.1.255
  Pinging 192.168.1.255 with 32 bytes of data:
  Reply from 192.168.1.1: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.4: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.2: bytes=32 time=16ms TTL=128
  Reply from 192.168.1.5: bytes=32 time=16ms TTL=128
  Reply from 192.168.1.1: bytes=32 time=Oms TTL=128
  Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.4: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.5: bytes=32 time=Oms TTL=128
  Reply from 192.168.1.1: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.4: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.5: bytes=32 time=16ms TTL=128
  Reply from 192.168.1.1: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.4: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.5: bytes=32 time=15ms TTL=128
  Ping statistics for 192.168.1.255:
      Packets: Sent = 4, Received = 16, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
      Minimum = Oms, Maximum = 16ms, Average = 3ms
  PC>
```

11] Command prompt for Email client:-

```
🖲 E-MAIL
                                                                                - O X
Physical
          Config
                   Desktop
                            Software/Services
 Command Prompt
                                                                                   X
  Packet Tracer PC Command Line 1.0
 PC>PING 192.168.1.255
 Pinging 192.168.1.255 with 32 bytes of data:
 Reply from 192.168.1.1: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.3: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.5: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.1: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.3: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.5: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.1: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.2: bytes=32 time=1ms TTL=128
  Reply from 192.168.1.3: bytes=32 time=1ms TTL=128
  Reply from 192.168.1.5: bytes=32 time=1ms TTL=128
  Reply from 192.168.1.1: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.2: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.3: bytes=32 time=0ms TTL=128
  Reply from 192.168.1.5: bytes=32 time=16ms TTL=128
  Ping statistics for 192.168.1.255:
      Packets: Sent = 4, Received = 16, Lost = 0 (0% loss),
  Approximate round trip times in milli-seconds:
      Minimum = Oms, Maximum = 16ms, Average = 1ms
  PC>
```

12] Go to simulation mode->click on http->click on web browser->type ip address192.168.1.5 ->Go

₹ НТТР		
Physical Config Desktop Software/Services		
Web Browser		X
VRL http://192.168.1.5	Go	Stop
Cisco Packet Tracer		<u>~</u>
Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open. Quick Links: A small page Copyrights Image page Image		

13] Go to realtime mode->click on multiserver->desktop->config->dns

🔻 Server1			Z
Physical Config De	esktop 📗 Software/Services		
GLOBAL		DNS	
Algorithm Settings	DNS Service (On	○ Off
HTTP	Resource Records		
	Name	Туре	A Record 💌
DNS	Address		
SYSLOG	Add	Save	Remove
NTP	No. Name	Түре	Details
EMAIL	1 multiserver.com	A Record	192.168.1.5
FIREWALL			
FastEthernet0			
	DNS Cache		
~			

14] Go to realtime mode->click on multiserver->desktop->config->email

🔻 Server1		
Physical Config	Desktop Software/Services	
GLOBAL Settings Algorithm Settings SERVICES	SMTP Service	EMAIL POP3 Service ON OFF
	Domain Name:	Set
DNS SYSLOG	User	Password
AAA NTP		
EMAIL FTP		+
FIREWALL IPv6 FIREWALL		-
FastEthernet0		Change Password

15] Open simulation mode:-

16] http click->desktop->web browser->type ip address 192.168.1.5-> then go

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17] Click ftp client->command prompt ->Type ><u>ftp 192.168.1.5</u>

1

Physical Config Desktop	
Command Prompt	X
PC>ping 192.168.1.255	
Dinging 192 168 1 255 with 32 bytes of data:	
Finging ISE. 105.1.200 with SE Sydes SI data.	
Reply from 192.168.1.5: bytes=32 time=14ms TTL=128 Reply from 192.168.1.1: bytes=32 time=15ms TTL=128	
Reply from 192.168.1.4: bytes=32 time=19ms TTL=128	
Reply from 192.168.1.5: bytes=32 time=20ms TTL=128 Reply from 192.168.1.5: bytes=32 time=9ms TTL=128	
Reply from 192.168.1.1: bytes=32 time=9ms TTL=128 Reply from 192.168.1.3: bytes=32 time=11ms TTL=128	
Reply from 192.168.1.4: bytes=32 time=11ms TTL=128	
Reply from 192.168.1.5: bytes=32 time=8ms TTL=128 Reply from 192.168.1.3: bytes=32 time=9ms TTL=128	=
Reply from 192.168.1.4: bytes=32 time=10ms TTL=128 Reply from 192.168.1.1: bytes=32 time=11ms TTL=128	
Reply from 192.168.1.5: bytes=32 time=5ms TTL=128	
Reply from 192.168.1.1: bytes=32 time=15ms TTL=128 Reply from 192.168.1.3: bytes=32 time=17ms TTL=128	
Reply from 192.168.1.4: bytes=32 time=19ms TTL=128	
PC>ftp 192.168.1.5 Trying to connect192.168.1.5	
	-
Cisco Packet Tracer	
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ile Edit Options Wew Tools Extensions Help Cogical [Root]	New Cluster Move Object Set Tiled Background View Event List Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Image: Set Tiled Background Bac
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18] Click dns-> desktop-> command prompt ->Type-> nslookup 192.168.1.5

R DNS	
Physical Config Desktop Software/Services	s
Commond Descent	
Command Prompt	
Pinging 192.168.1.255 with 32 bytes of dat	ca:
Reply from 192.168.1.1: bytes=32 time=0ms.	TTL=128
Reply from 192.168.1.4: bytes=32 time=Oms	TTL=128
Reply from 192.168.1.2: bytes=32 time=16ms Reply from 192.168.1.5: bytes=32 time=16ms	5 IIL=128 5 TTL=128
Reply from 192.168.1.1: bytes=32 time=Oms	TTL=128
Reply from 192.168.1.2: Bytes=32 time=oms Reply from 192.168.1.4: bytes=32 time=Oms	TTL=128
Reply from 192.168.1.5: bytes=32 time=Oms	TTL=128
Reply from 192.168.1.1. Bytes=32 time=oms Reply from 192.168.1.2: bytes=32 time=Oms	TTL=128
Reply from 192.168.1.4: bytes=32 time=Oms	TTL=128
Reply from 192.168.1.1: bytes=32 time=0ms	TTL=128
Reply from 192.168.1.2: bytes=32 time=Oms Reply from 192.168.1 4: bytes=32 time=Oms	TTL=128 TTL=128
Reply from 192.168.1.5: bytes=32 time=15ms	5 TTL=128
Ping statistics for 192.168.1.255:	
Packets: Sent = 4, Received = 16, Lost	; = 0 (0% loss),
Approximate round trip times in milli-seco Minimum = Oms, Maximum = 16ms, Average	onds: 2 = 3ms
PC>nslookup 192.165.1.5	
Cisco Packet Tracer File Edit Options View Tools Extensions Help	
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Logical [Root]	New Cluster Move Object Set Tiled Background Viewport
	Simulation Panel
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Serterl	0.000 FTP TCP 0.000 FTP TCP
	0,000 111 1C1
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PC-PT HTTP	
PC-PT HTTP	
PC-PT HTTP	Fa0 PC-PT E-MAIL Fa0 PC-PT Back Auto Capture / Play Capture / Forward Capture / Forward
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PC-PT HTTP PC-PT FTP PC-PT FTP PC-PT DNS	Fa0 PC-PT E-MAIL Reset Simulation Constant Delay Play Controls Back Auto Capture / Play Capture / Forward Event List Filters - Visible Events ACL Filter, ARP, BGP, COP, DHCP, DNS, DTP, ELGRP, FTP, H.323, HSRP, HTTP, HTTPS, ICHP, ICMP-6, IPSec, ISAKMP, LACP, NTP, OSPF, PA0P, POP3, RADIUS, RIP, RTP, SCCP, SMTP, SMNP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Tenet, UDP, VTP
PC-PT HTTP PC-PT FTP PC-PT FTP PC-PT DNS	Fa0 PC-PT E-MAIL
PC-PT HTTP PC-PT FTP PC-PT FTP PC-PT Time: 00:20:21.393 Power Cycle Devices PLAY CONTROLS: Back Auto	Fac PC-PT E-MAIL E
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PC-PT HTTP PC-PT FTP PC-PT FTP PC-PT FTP PC-PT DNS	

E-MAIL		
ysical Config	Desktop Software/Services	
Configure Mail		×
User Information		
Your Name:	abc	
Email Address	abc@multiserver.com	
Server Information -		
Incoming Mail Server	192.168.1.5	
Outgoing Mail Server	192.168.1.5	
Logon Information —		
User Name:	abc	
Password:	•••	
Save		Clear Reset
Go to compose r	nail	
ysical Config	Desktop Software/Services	
Compose Mail		×
Send Subject	abc@multiserver.com t: it	
hello!!!!!!		

19] Click on email-> desktop-> email -> configure email



21] Go to simulation mode -> Click on capture and forward ->then click again capture and forward

A] http client:-



C] Dns client:-





22] Now Edit filter -> unchecked the checkbox show all ->select http,tcp->capture and forward

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23] click on inbound PDU details

A] http:-

sı	Model	Outbou	nd PDU Det	ails							
PD	OU Form	ats									
	IP										
	0	4	8		16	19			31	Bits	
	4	IHL	DSCP:	0×0		TL:	40				
		ID:	0x1b		0x2		0×0				
	TT	L: 128	PRO: 0	x6		CHK	SUM				_
			SRC	C IP: 1	92.168	.1.1					
	DST IP: 192.168.1.5										
	OPT: 0x0 0x0										
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	TCP										
	0		1	6			31	Bits			
	S	RC PORT:	1026	- [DEST P	ORT: 80	_ آ				
	SEQUENCE NUM: 1										
	ACK NUM: 0										
	OFF.	RES.	FIN + ACK		WIN	DOW	\neg				-
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24] Edit filter -> unchecked the checkbox show all ->select ftp,tcp->capture and forward

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Logical [Root]	New Cluster Move Object Set Tiled Background Viewo	ort
	💘 Simulation Panel	23
	Event List	
	Vis. Time (sec) Last Device At Device Type Info	-
	👁 0.005 http HTTP	
	0.006 http Switch0 HTTP	
Server-PT multi-erver	0.006 multiserver Switch0 TCP	
er er	emai 0.006 ftp Switch0 TCP	
	0.006 Switch0 multiserver TCP	
PC-PT http	0.007 Switch0 multiserver HTTP	
	0.007 Switch0 TCP	
Switch0	0.007 Switch0 email TCP	
	0.007 email SMTP	-
PC-PT ftp ftp	Reset Simulation Image: Constant Delay Captured to: 0.007 s Play Controls Image: Capture / Play Capture / Forward Back Auto Capture / Play Capture / Forward	*
	Event List Eilters	
	Visible Events: ETP. TCP	
	Edit Filters Show All	
Time: 00:10:21.031 Power Cycle Devices PLAY CONTROLS: Back Auto Capture / Play Capture / Forward	Event List Simulatio	n
Connections	t Status Source Destination Type Color Time (sec) Perio	dic
Toggle PDU List Window		
Copper Straight-Through	11.55 DM	-
	▲ 11:50 PM ▲ 11:50 PM ▲ 11:50 PM ■ 3/28/2014	

23] click on inbound PDU details

B] Ftp:-

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0	4	8		16 :	19		31 Bits	5
4	IHL	DSCP: 0	0×0		TL: 44	1		
	ID:	0x2f		0×2	0	×0		
TT	L: 128	PRO: 0	x6		CHKSU	IM		
		SRC	C IP: 1	92.168	1.5		_	
		DST	TIP: 19	92.168.	1.2			
		OPT: 0	×0			0×0		
		DATA (VARIA	BLE LE	NGTH)			
TCP								
		10	5			31 Bits		
:	SRC PORT	: 21	DI	ESTPO	RT: 1026			
		SEQUENC		• •		-		
		020200	2 11011					
		ACK N	UM: 1			1		
								=
OFF.	RES.	SYN +		WIN	Dow	7		- 10
OFF.	RES.	SYN + ACK		WIN	DOW			
OFF.	RES.	SYN + ACK : 0x0	UI		POINTER			
OFF.	RES.	SYN + ACK : 0x0 OPTION	U	WIN	POINTER PADDING			
OFF.	RES.	SYN + ACK : 0x0 OPTION		WINI RGENT	DOW POINTER PADDING			

25] Edit filter -> unchecked the checkbox show all ->select udp,dns->capture and forward

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[Root] New Cli	ster Move Object Set Tiled Background Viewport	
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PC-PT ftp	y Controls Back Auto Capture / Play Capture / Forward int List Filters ible Events: DNS, UDP Edit Filters Show All	
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16 31 Bits		
SRC PORT: 53 DEST PORT: 1026 LENGTH: 0x9 CHECKSUM: 0x0		
DATA (VARIABLE)		
S Header		
1 5 8 9 12 15 Bits		
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QDCOUNT: 1		
ANCOUNT: U		
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ARCOUNT: 0 ARCOUNT: 0		
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ARCOUNT: 0 ARCOUNT: 0		
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ARCOUNT: 0 ARCOUNT: 0 ARCOUNT: 0 S QUERY 2 Bytes NAME: 192.168.1.5		
ARCOUNT: 0 ARCOUNT: 0 S QUERY 2 NAME: 192.168.1.5		
ANCOUNT: 0 ARCOUNT: 0 ARCOUNT: 0 S QUERY 2 Bytes NAME: 192.168.1.5 TYPE: 0x1 CLASS: 0x1		

27] Edit filter -> unchecked the checkbox show all ->select pop3,smtp,tcp->capture and forward

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	0.00	6 multiserver	Switch0	тср
	0.00	6 ftp	Switch0	ТСР
	0.00	6 Switch0	multiserve	er TCP
	.00	7 Switch0	multiserve	er HTTP
PC-PT	.00	7	Switch0	TCP
PC-PT dns	.00	7 Switch0	email	TCP
itp	.00	7	email	SMTP -
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	Reset Sim	ulation 🔽 Constant	Delay	Captured to: * 0.007 s
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Inne: 00:10:21:031 Power Cycle Devices PLAT CONTROLS: Back Auto Capture / Play Capture / Porward		0		
	Event List F	ilters		
Connections New Delete	Visible Ever	nts: POP3, SMTP, TCP		
Concer Straight-Through	E	dit Filters	Sh	IOW All
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- 28] click on inbound PDU details
- B] Email:-



Practical –

Aim : Configure SMTP, POP3, IMAP and MIME.

Step 1: Go to Control Panel->Mail Setup->E-Mail Accounts

mail Ac			
	Setup e-mail accounts and directories.	E-mail Accounts	
ata Files	s Change settings for the files Outlook uses to store e-mail messages and documents.	Data Files	3
ofiles -	Setup multiple profiles of e-mail accounts and data files. Typically, you only need one.	Show Profiles	

Step 2: Enter Name , Email address and password -> next

()

Auto Account Setu Clicking Next will Exchange server	up contact your e-mail server and configure y account settings.	vour Internet service provider or Microsoft	×
Your Name:	Sanjana Bhangale		
	Example: Barbara Sankovic		
E-mail Address:	sanjana 7494@gmail.com		
	Example: barbara@contoso.com		
Password:	*******		
Retype Password:	*******		
Manually configure	server settings or additional server types		
		< Back Next >	Cancel
p 3: Finish			

Congratulations!	×
Configuring	
Configuring e-mail server settings. This might take several minutes: Establish network connection Search for sanjana 7494@gmail.com server settings Log on to server and send a test e-mail message 	
Your POP3 e-mail account is successfully configured.	
Manually configure server settings	
	< Back Finish Cancel

You can ad	d or remove an	account. You can	select an account and	d change its settings.	
mail Data File	s RSS Feeds	SharePoint Lists	Internet Calendars	Published Calendars	Address Books
🛯 New 🛠	Repair 😭	Change 📀	Set as Default 🗙 R	emove 🕈 🖶	
Name			Туре		
anjana 7494@g	gmail.com		POP/SMTP (s	send from this account	by default)

Step 4: Open Microsoft Office Outlook

Practical No:-7



D

PC0		
Physical Config D	esktop	
IP Configuration O DHCP Static		X http://www.
· · · · · · · · · · · · · · · · · · ·		Web Browser
IP Address	192.168.1.1	
Subnet Mask	255.255.255.0	
Default Gateway	192.168.1.2	
DNS Server	192.168.2.3	
		Cisco IP Communicator
E Mail	PPPoE Dialer Text Editor	

Step 2:-configuring HTTP

🗨 http		
Physical Config Des	ktop	
IP Configuration		X http://
IP Address	192.168.2.2	Web Browser
Subnet Mask	255.255.255.0	_
Default Gateway	192.168.2.1	
Step 3:-configuring DN	S	

ans		
Physical Config De	esktop	
IP Configuration		× CR
		http:
IP Address	192.168.2.3	Web Browser
Subnet Mask	255.255.255.0	
Default Gateway	192.168.2.1	
building building,		
Step 4:-configuring F	ГР	
Step 4:-configuring F	ГР	
Step 4:-configuring F	ГР	
Step 4:-configuring F	TP esktop	X http://www.analysis
Step 4:-configuring F	TP esktop	X Interior
Step 4:-configuring F	TP esktop	X Inttp:
Step 4:-configuring F	TP esktop 192.168.2.4	X Web Browser
Step 4:-configuring F tp Physical Config De IP Configuration IP Address Subnet Mask	TP esktop 192.168.2.4 255.255.0	X Web Browser
Step 4:-configuring F	TP esktop 192.168.2.4 255.255.255.0 192.168.2.1	X Web Browser
Step 4:-configuring F	TP esktop 192.168.2.4 255.255.255.0 192.168.2.1	X Web Browser
Step 4:-configuring F	TP esktop 192.168.2.4 255.255.255.0 192.168.2.1	X Web Browser
Step 4:-configuring F	TP esktop 192.168.2.4 255.255.255.0 192.168.2.1	X Web Browser
Step 4:-configuring F	TP esktop 192.168.2.4 255.255.255.0 192.168.2.1	X Web Browser
Step 4:-configuring F	TP esktop 192.168.2.4 255.255.255.0 192.168.2.1	X Web Browser
Step 4:-configuring F	TP esktop 192.168.2.4 255.255.255.0 192.168.2.1	X Web Browser
Step 4:-configuring F	TP esktop 192.168.2.4 255.255.255.0 192.168.2.1	X Web Browser
Step 4:-configuring F	TP esktop 192.168.2.4 255.255.255.0 192.168.2.1	X Web Browser

Step 5:-configuring Router0

Router>en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname r1

r1(config)#interface f0/0

r1(config-if)#ip address 192.168.1.2 255.255.255.0

r1(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

r1(config-if)#exit

r1(config)#interface f0/1

r1(config-if)#ip address 192.168.2.1 255.255.255.0

r1(config-if)#no shut

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

r1(config-if)#exit



Step 6:-configuring HTTP -> Check if it is on

🍭 http		
Physical Config	Desktop	
PhysicalConfigGLOBALSettingsAlgorithm SettingsAlgorithm SettingsHTTPDHCPTFTPDNSSYSLOGAAANTPEMAILFTPINTERFACEFastEthernet	Desktop HTTP HTTP On Off On Off File Name: index.html <html> <center>Cisco Packet Tracer</center> <hr/><welcome cisco="" doors="" mind="" new="" open.<="" opening="" opportunities.="" packet="" td="" to="" tracer.="" wide=""> Quick Links: <ca href="helloworld.html">A small page <ca href="image.html">Image page <ca href="image.html">Image page</ca></ca></ca></welcome></html>	
	Page: 1/3 <	

Step 7:-configuring DNS -> Check if HTTP is off

💘 dns				_		
Physical	Config	Desktop				
GLO	BAL	~		нттр		
Algorithm	Settings	HTTP		HTTPS		
НТ	ТР	On	Off	💿 On	Off	
DH	CP TP	File Nam	e: index.html			
	NS	<html></html>	s foot size - 42 o	alor-lblue's Cisco Da	ackat	
SYS	LOG	Tracer	<pre><center>Cisco Packet Tracer</center></pre>			
	rP	<hr/> We opportu	<pre><hr/>>Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open.</pre>			
EM	AIL	Quic	ck Links: brof-'bolloworld bt			
	FACE	 <a< td=""><td>href='copyrights.h</td><td>tml'>Copyrights</td></a<> <td>></td>	href='copyrights.h	tml'>Copyrights	>	
FastEt	nernet	<a ><a </a </a 	href='image.html'> href='image.jpg'>Ir	Image page mage		
		Page:	1/3 <		+ X	
Step	8:-configuring	DNS -> Check if DHCP is of	f			
-------	----------------	----------------------------	---			
occp.						

🏘 dns				-				×
Physical	Config	Desktop						
GLO	BAL /	·	DHC	Р				
Algorithm	Settings ICES	Service	On		Off	1		
НТ	TP	Pool Name	serverPool					j I
	CP	Default Gateway	0.0.0.0					
	IP	DNS Server	0.0.0					
SYS	LOG	Start IP Address	. :	192	168	2	0	
	A	Subnet Mask:		255	255	255	0	
	P	Maximum numbe	r 1062731264					
FT	P	of Users :						
INTER	FACE	TFTP Server:	0.0.0.0					
FastEth	nernet	Add	Save	e		Remov	e	
	Pool N: Default Gat DNS Ser Start IP Ac Subnet I Max Nul TFTP :					•		
	serv 0.0.0.0 0.0.0.0 192.168 255.2 1062 0.0.0.0							

Step 9:-configuring DNS -> Check if DNS is On -> add name and address

R dns				
Physical Config D	esktop			
GLOBAL ^		DNS	5	
Algorithm Settings	DNS Service	On	\odot	Off
HTTP	Resource Recor	rds		
DHCP	Name	it.study	Туре	A Record 👻
DNS	Address 192.1	68.2.2		
AAA	Add	Save	•	Remove
	No. Name	Туре	De	etails
FTP	1 it.study	A Record	19	2.168.2.2
INTERFACE FastEthernet				
	DNS Cache			

Step 10:-PC0 -> Desktop -> Web Browser -> Type url http://it.study

R PCO		- 0 - X
Physical Config Desktop		
Web Browser		X
< > URL http://it.study	Go	Stop
Cisco Packet Tracer		~
Welcome to Cisco Packet Tracer. Opening doors to new opportunities. Mind Wide Open. Quick Links: A small page Copyrights Image page Image		*

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Step 11:-configuring PCO -> Desktop -> Command Prompt -> Ping it.study



🕐 ftp Config Physical Desktop GLOBAL FTP Settings Algorithm Settings On O Off Service SERVICES HTTP User Setup DHCP UserName a Password b TFTP Write Read Delete Rename List DNS SYSLOG UserName Password Permission . + AAA = 1 cisco cisco RWDNL NTP EMAIL 2 a RWDNL b FTP INTERFACE . File FastEthernet 1 c1841-advipservicesk9-mz.124-15.T1.bin -< _____ Remove

Step 12:-configuring FTP

Step 13:-configuring HTTP in FTP -> Check if HTTP is off

Physical Config Desktop GLOBAL Settings Algorithm Settings FITP On Algorithm Settings Algorithm Settings Algorithm Settings On On On On On On On SystLoG Arad Orborouthithith Oppontunities Mind Wide Open. Oppontunities	💘 ftp				
GLOBAL HTTP Settings HTTP Algorithm Settings HTTP BERVICES HTTP HTTP On On Off DHCP File Name: index.html FTP AAA NTP EMAIL FTP INTERFACE FastEthernet Page: I/3 Yege: I/3 Yege: I/3	Physical Config	Desktop			
	Physical Config GLOBAL Settings Algorithm Settings SERVICES HTTP DHCP TFTP DNS SYSLOG AAA NTP EMAIL FTP INTERFACE FastEthernet	Desktop HTTP On On File Name: index.ht <html> <center><font size<="" td=""> Tracer Tracer <hr/>>Welcome to Ci opportunities. Mine Quick Links: <hr/><dbr><d><hr/><d>href='hellow <hr/><dbr><d>href='copyi <hr/><dbr><d>href='image <dt><html> Page: 1/3</html></dt></d></dbr></d></dbr></d></d></dbr></center></html>	HT ff ml ='+2' color='blu enter> sco Packet Tra d Wide Open. vorld.html'>A sr ights.html'>Cop .html'>Image p .jpg'>Image <th>TP HTTPS On He'>Cisco Pac acer. Opening mall page byrights bage </th> <th><pre> Off ket doors to new +</pre></th>	TP HTTPS On He'>Cisco Pac acer. Opening mall page byrights bage	<pre> Off ket doors to new +</pre>

Step 14:-configuring DHCP in FTP -> Check if DHCP is off

💐 ftp						
Physical Config	Desktop					
GLOBAL	h.	DHO	СР			
Algorithm Settings	Service	On		Off		
HTTP	Pool Name	serverPool				
DHCP	Default Gateway	0.0.0.0				
DNS	DNS Server Start IP Address	0.0.0.0	192	168	2	0
AAA	Subnet Mask:		255	255	255	0
EMAIL	Maximum number of Users :	1062731264				
	TFTP Server:	0.0.0.0				
FastEthernet	Add	Sav	ve		Remov	e
	Pool Na Default C	Gat DNS Ser Sta	rt IP Ac Su	bnet I	Max Nu	I TFTP :
	serv 0.0.0.0	0.0.0.0 192.	.168 25	5.2 :	1062	0.0.0.0
	-					

Step 15:-configuring DNS in FTP -> Check if DNS is off

ftp					
Physical	Config	Desktop			
GLO	BAL ^		DN	S	
Algorithm	Settings	DNS Service	On On	۲	Off
SERV	ICES				
		Name	ds	Туре	A Record 👻
DN	IS	Address			
	A	Add	Sav	/e	Remove
TM	P	No. Name	Type	D	etails
EMA	AIL				
FT	P				
FastEth	nernet				
	-	DNS Cache			

Step 16:-configuring PCO -> Desktop -> Command Prompt -> ftp 192.168.2.4

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Step 17:- PC0 -> Desktop -> Text Editor-> Save it as a.txt

Physical Config Desktop Text Editor File hello File Name a.txt OK	x wser icator

Step 18:-configuring PCO -> Desktop -> Command Prompt -> put a.txt

🥐 PC0		
Physical Config Desktop		
Command Prompt		X
ftp>put a.txt		<u>~</u>
Writing file a.txt from 192.168.2.4:		
File transfer in progress		
[Transfor complete - 5 butes]		
[ITANSIEI COMPIECE - 3 Dytes]		
5 bytes copied in 0.187 secs (26 bytes/sec)		
ftp>dir		
Listing /ftp directory from 192.168.2.4:		
0 : a.txt	5	
1 : c1841-advipservicesk9-mz.124-15.T1.bin	33591768	
2 : c1841-ipbase-mz.123-14.T7.bin	13832032	
3 : c1841-ipbasek9-mz.124-12.bin	16599160	
4 : c2600-advipservicesk9-mz.124-15.T1.bin	33591768	
5 : c2600-i-mz.122-28.bin	5571584	
6 : c2600-ipbasek9-mz.124-8.bin	13169700	
7 : c2800nm-advipservicesk9-mz.124-15.T1.bin	50938004	=
8 : c2800nm-ipbase-mz.123-14.T7.bin	5571584	
9 : c2800nm-ipbasek9-mz.124-8.bin	15522644	
10 : c2950-i6q412-mz.121-22.EA4.bin	3058048	
11 : c2950-i6q412-mz.121-22.EA8.bin	3117390	-
F Mail PPPOF Dialer Text Editor		

Step 19:-configuring PCO -> Desktop -> Command Prompt -> dir

RCO RCO		٢			
Physical Config Desktop					
Command Prompt	X				
Itp>dir					
Listing /ftp directory from 192 168 2 4-					
0 : a txt	5				
1 : c1841-advipservicesk9-mz.124-15.T1.bin	33591768				
2 : c1841-ipbase-mz.123-14.T7.bin	13832032				
3 : c1841-ipbasek9-mz.124-12.bin	16599160				
4 : c2600-advipservicesk9-mz.124-15.T1.bin	33591768				
5 : c2600-i-mz.122-28.bin	5571584				
6 : c2600-ipbasek9-mz.124-8.bin	13169700				
7 : c2800nm-advipservicesk9-mz.124-15.T1.bin	50938004				
8 : c2800nm-ipbase-mz.123-14.T7.bin	5571584				
9 : c2800nm-ipbasek9-mz.124-8.bin	15522644				
10 : c2950-i6q412-mz.121-22.EA4.bin	3058048				
11 : c2950-i6q412-mz.121-22.EA8.bin	3117390				
12 : c2960-lanbase-mz.122-25.FX.bin	4414921				
13 : c2960-lanbase-mz.122-25.SEE1.bin	4670455				
14 : c3560-advipservicesk9-mz.122-37.SE1.bin	8662192				
15 : pt1000-i-mz.122-28.bin	5571584				
16 : pt3000-i6q412-mz.121-22.EA4.bin	3117390				
ftp>get a.txt					
Deading Sile a but from 100 100 0 4					
Reading file a.txt from 192.168.2.4:					
Tile clausier in progress					
[Transfer complete - 5 bytes]	=				
[IIIdnifer compress]					
5 bytes copied in 0 169 secs (29 bytes/sec)					
ftp>	-				

Step 20:-configuring PC0 -> Desktop -> Command Prompt -> get a.txt

Re PCO	-				
Physical Config Desktop					
Command Prompt		X			
3 : c1841-ipbasek9-mz.124-12.bin	16599160	A			
4 : c2600-advipservicesk9-mz.124-15.T1.bin	33591768				
5 : c2600-i-mz.122-28.bin	5571584				
6 : c2600-ipbasek9-mz.124-8.bin	13169700				
7 : c2800nm-advipservicesk9-mz.124-15.T1.bin	50938004				
8 : c2800nm-ipbase-mz.123-14.T7.bin	5571584				
9 : c2800nm-ipbasek9-mz.124-8.bin	15522644				
10 : c2950-i6q412-mz.121-22.EA4.bin	3058048				
11 : c2950-i6q412-mz.121-22.EA8.bin	3117390				
12 : c2960-lanbase-mz.122-25.FX.bin	4414921				
13 : c2960-lanbase-mz.122-25.SEE1.bin	4670455				
14 : c3560-advipservicesk9-mz.122-37.SE1.bin	8662192				
15 : pt1000-i-mz.122-28.bin	5571584				
16 : pt3000-i6q412-mz.121-22.EA4.bin	3117390				
ftp>get a.txt					
Peading file a tyt from 192 168 2 4:					
File transfor in programs					
rife transfer in progress					
[Transfer complete - 5 bytes]					
5 bytes copied in 0.169 secs (29 bytes/sec)					
ftp>					
F Mail PPPoF Dialer Text Editor					



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<u>munotes.in</u>Practical No:-8



%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

r1(config-if)#exit

Step 2:-IP Configuring of server 0 i.e dhcp

R dhcp		
Physical Config D	Desktop	
IP Configuratio	192.168.1.2 255.255.255.0 192.168.1.1	X Web Browser
Step3:-Configuring DH	CP	

R dhcp				_ 🗆 🗙	
Physical Config	Desktop				
GLOBAL ^ Settings		DHCP			
Algorithm Settings	Service	On	Off		
HTTP	Pool Name	serverPool1			
DHCP TFTP	Default Gateway	192.168.1.2			
DNS	DNS Server	192.168.1.3	02 68	1 0	
	Start IP Address Subnet Mask:	:	92 68 55 55	1 0 55 0	
EMAIL FTP	Maximum numbe of Users :	er 250			
INTERFACE	TFTP Server: 0.0	0.0.0			
FastEthernet	Add	Save	Re	emove	
	Pool N Default G	DNS S Start I	IP Subnet M	1ax N TFTP	
	ser 0.0.0.0	0.0.0.0192.1.	255 1	06 0.0.0	
	< I I	II II		<u>→</u>	

Step 4:- IP Configuring of server 1 i.e dns

Real Config		
Physical Config L	n	X http:
IP Address Subnet Mask Default Gateway	192.168.1.3 255.255.255.0 192.168.1.1	Web Browser

Step 5:-Configuring PC0

PC0			
Physical Config De	esktop		
IP Configuration	1		
 DHCP Static 	DHCP request successful.	Web Browser	
IP Address	192.168.1.4		
Subnet Mask	255.255.255.0		•
Default Gateway	0.0.0		
DNS Server	tenerator	Cisco IP	
E Mail PP	PoF Text	ommunicato	

Step 6:-Configuring PC1

PC1		
Physical Config	Desktop	
IP Configurat	ion DHCP request successfu	I. Web
IP Address Subnet Mask Default Gateway	192.168.1.5 255.255.255.0 0.0.0.0	Rrowser
E Mail		Cisco IP Communicato
tep 7:-Configuring	PC2	

PC2			
Physical Config [Desktop		
IP Configuratio	n	X	
 DHCP Static 	DHCP request successful.	Web	
IP Address Subnet Mask Default Gateway	192.168.1.6 255.255.255.0 0.0.0.0	Rrowser	
E Mail Pl	PROF Text	Cisco IP Communicato	
ep 8:-Go to PC0>des	xtop>command prompt		
Physical Config [Desktop		
IP Configuratio	n DHCP request successful.	X http://web	
IP Address Subnet Mask Default Gateway	192.168.1.6 255.255.255.0 0.0.0.0	Browser	
DNS Server		Cisco IP	
	CIENCE ATO	communicato	

Step 9:-Go to PC0>desktop>web browser

PC0						
Physica	l Config	Desktop				
Wob	Browco	r			V	
web		·//192 168 1 2		60	Ston t	
		Cisco Pa	cket Tracer			
Welcome Open. Quick Linl <u>A small p</u> <u>Copyright</u> <u>Image pa</u> <u>Image</u>	to Cisco Packet age <u>s</u> ge	: Tracer. Opening	g doors to new oppor	tunities. Mind Wid	de C	
Step 10:-C	Configurin	g DNS	Text	3		

Physical	Config	Desktop			
GLOBA	L^		DNS		
Setting	js				-
Algorithm Se	ettings	DNS Service	On	Off	_
HTTP		Resource Rec	cords		
DHCP		Name IT.STU	JDY Ty	A Record	
TFTP		102	160 1 2		
SYSLO	G	Address 192	.108.1.3		
AAA		Add	Save	Remove	
NTP		N Name	Туре	Details	
EMAIL		1 it.study	A Record	192.16	
INTERFA	CE				
FastEther	met	DNS Cache			
1		Dirio cuciic			
		Dire cucile			
	T				
ер 11:-Go Р рсо	to PC0>	•desktop>web	browser		×
ep 11:-Go PCO Physical	to PC0>	•desktop>web	browser		×
ep 11:-Go PCO Physical	to PC0>	•desktop>web	browser		
ep 11:-Go ⁹ PC0 Physical Web Br	to PC0> Config	•desktop>web	browser	Go Stop	
ep 11:-Go Pco Physical Web Br	to PC0> Config I OWSET JRL http://it	Desktop	browser et Tracer		
ep 11:-Go Pco Physical Web Br < > L Welcome to Ci Quick Links: A small page Copyrights Image page Image	to PC0> Config	edesktop>web	browser et Tracer new opportunities. Mi	Go Stop	
ep 11:-Go PCO Physical Web Br > U Welcome to Ci Quick Links: A small page Copyrights Image page Image	Config	edesktop>web	browser et Tracer new opportunities. Mi	Go Stop	