



LABORATORY 2

Course Title: Network
Automation
Course code: MN521

Student Details :

Name: Samiullah
ID: MIT240044

Course Teacher's Name :
Mohammad Rana
Date of Submission:
23.05.2025

```
R1
etl/10, changed state to down
*Mar  1 00:00:05.587: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/9, changed state to down
*Mar  1 00:00:05.591: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/8, changed state to down
*Mar  1 00:00:05.595: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/7, changed state to down
*Mar  1 00:00:05.595: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/6, changed state to down
R1#
R1#
R1#enable
R1#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#interface FastEthernet 1/1
R1(config-if)#ip address dhcp

% IP addresses may not be configured on L2 links.

R1(config-if)#exit
R1(config)#exit
R1#
*Mar  1 00:02:04.055: %SYS-5-CONFIG_I: Configured from console by console
R1#write
Building configuration...
[OK]
R1#
```

```
R1
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#interface FastEther
R1(config)#interface FastEthernet 1/1
R1(config-if)#ip address dhcp

% IP addresses may not be configured on L2 links.

R1(config-if)#exit
R1(config)#exit
R1#
*Mar  1 00:02:04.055: %SYS-5-CONFIG_I: Configured from console by console
R1#write
Building configuration...
[OK]
R1#enable
R1#con
R1#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#username cisco privilege 15 password secret
R1(config)#crypto key generate rsa
% Please define a domain-name first.
R1(config)#line vty 0 4
R1(config-line)#transport input ssh
R1(config-line)#login local
R1(config-line)#exit
R1(config)#exit
R1#
*Mar  1 00:06:33.427: %SYS-5-CONFIG_I: Configured from console by console
R1#write
Building configuration...
[OK]
R1#
```

```
PC1 - PuTTY
Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
All rights reserved.

VPCS is free software, distributed under the terms of the "BSD" licence.
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC1> ip 172.16.10.1/24 172.16.10.100
Checking for duplicate address...
PC1 : 172.16.10.1 255.255.255.0 gateway 172.16.10.100

PC1>
```

```
PC2 - PuTTY

Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
All rights reserved.

VPCS is free software, distributed under the terms of the "BSD" licence.
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC2> ip 172.16.10.2/24 172.16.10.100
Checking for duplicate address...
PC1 : 172.16.10.2 255.255.255.0 gateway 172.16.10.100

PC2> █
```

```
PC4 - PuTTY

Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
All rights reserved.

VPCS is free software, distributed under the terms of the "BSD" licence.
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC4> ip 172.16.20.1/24 172.16.20.100
Checking for duplicate address...
PC1 : 172.16.20.1 255.255.255.0 gateway 172.16.20.100

PC4> █
```

```
PC3 - PuTTY

Welcome to Virtual PC Simulator, version 0.6.2
Dedicated to Daling.
Build time: Apr 10 2019 02:42:20
Copyright (c) 2007-2014, Paul Meng (mirnshi@gmail.com)
All rights reserved.

VPCS is free software, distributed under the terms of the "BSD" licence.
Source code and license can be found at vpcs.sf.net.
For more information, please visit wiki.freecode.com.cn.

Press '?' to get help.

Executing the startup file

PC3> ip 172.16.20.2/24 172.16.20.100
Checking for duplicate address...
PC1 : 172.16.20.2 255.255.255.0 gateway 172.16.20.100

PC3> 
```