LAB 6-HOME-COMBINED TASKS

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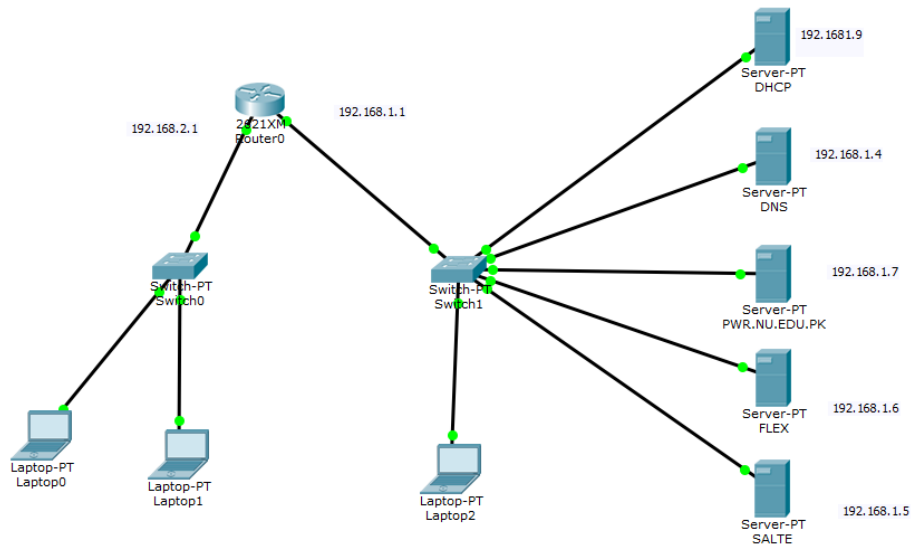
Topology:

Router Config:

```
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.2.1 255.255.255.0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/1
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#
```

```
Router#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#ip dhcp pool p1
Router(dhcp-config)#network 192.168.1.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.1.1
Router(dhcp-config)#dns-server 192.168.1.4
Router(dhcp-config)#ex
Router(config)#ip dhcp pool p2
Router(dhcp-config)#network 192.168.2.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.2.1
Router(dhcp-config)#dns-server 192.168.1.4
Router(dhcp-config)#ex
```

DHCP CONFIG:

DNS CONFIG:

PWR.NU.EDU.PK WEB SERVER CONFIG:

Physical   Config   Services   **Desktop**   Custom Interface

IP Configuration   X

Interface   FastEthernet0   ▼

IP Configuration

○ DHCP   ◉ Static

IP Address   192.168.1.7

Subnet Mask   255.255.255.0

Default Gateway   192.168.1.1

DNS Server   192.168.1.4

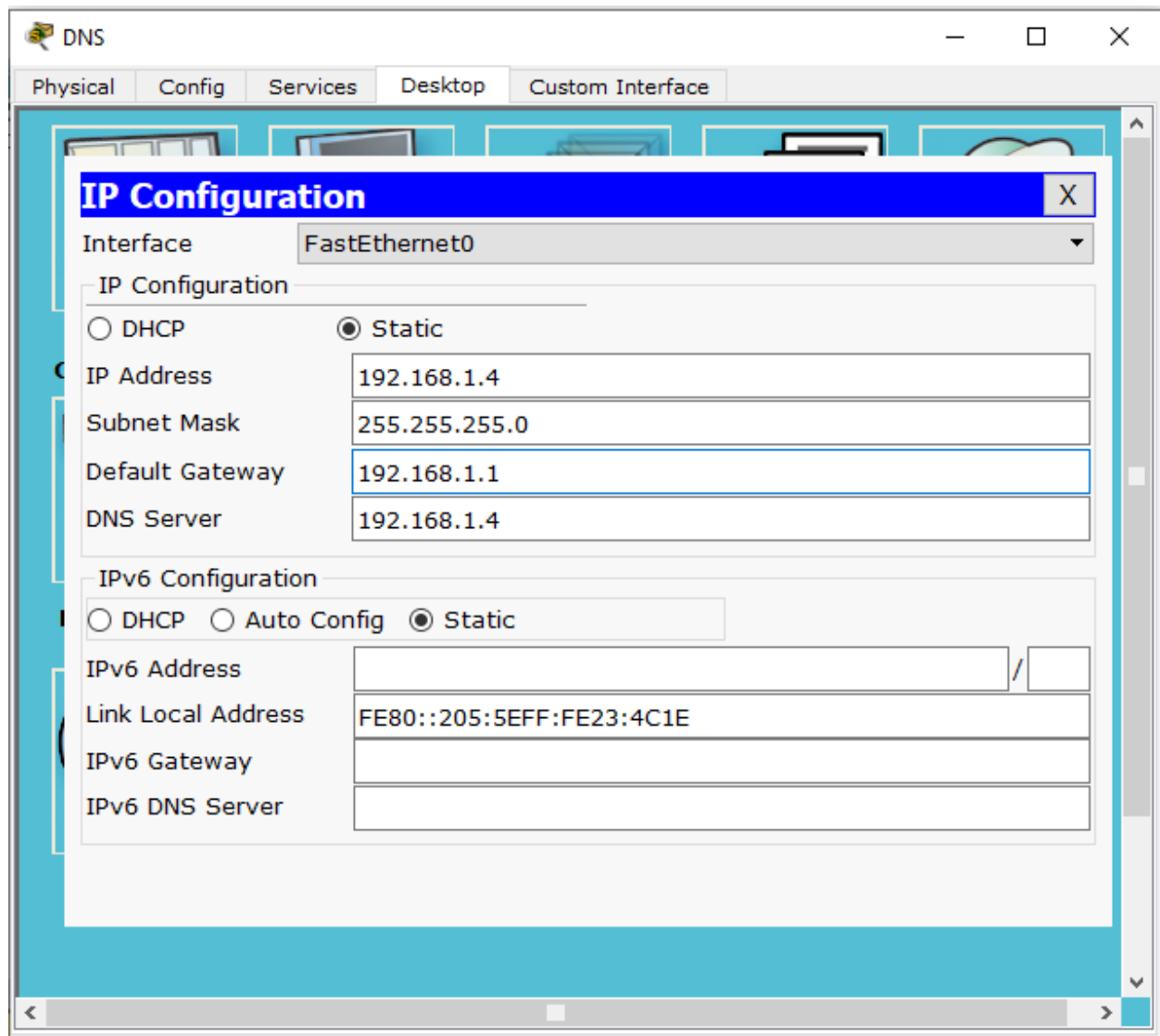### IPv6 Configuration

○ DHCP   ○ Auto Config   ◉ Static

IPv6 Address   /
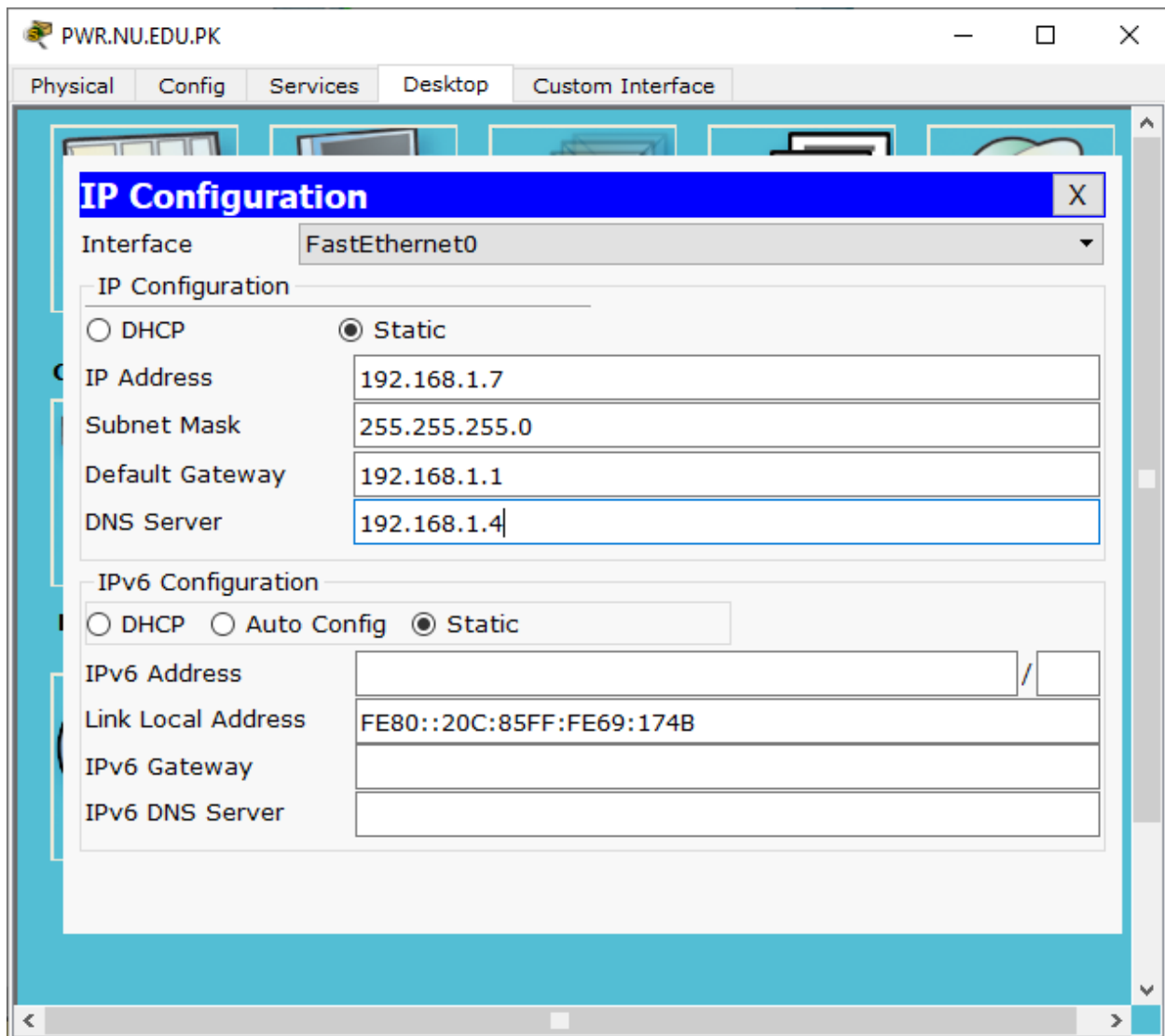
Link Local Address   FE80::20C:85FF:FE69:174B

IPv6 Gateway

IPv6 DNS Server

FLEX WEB SERVER CONFIG:
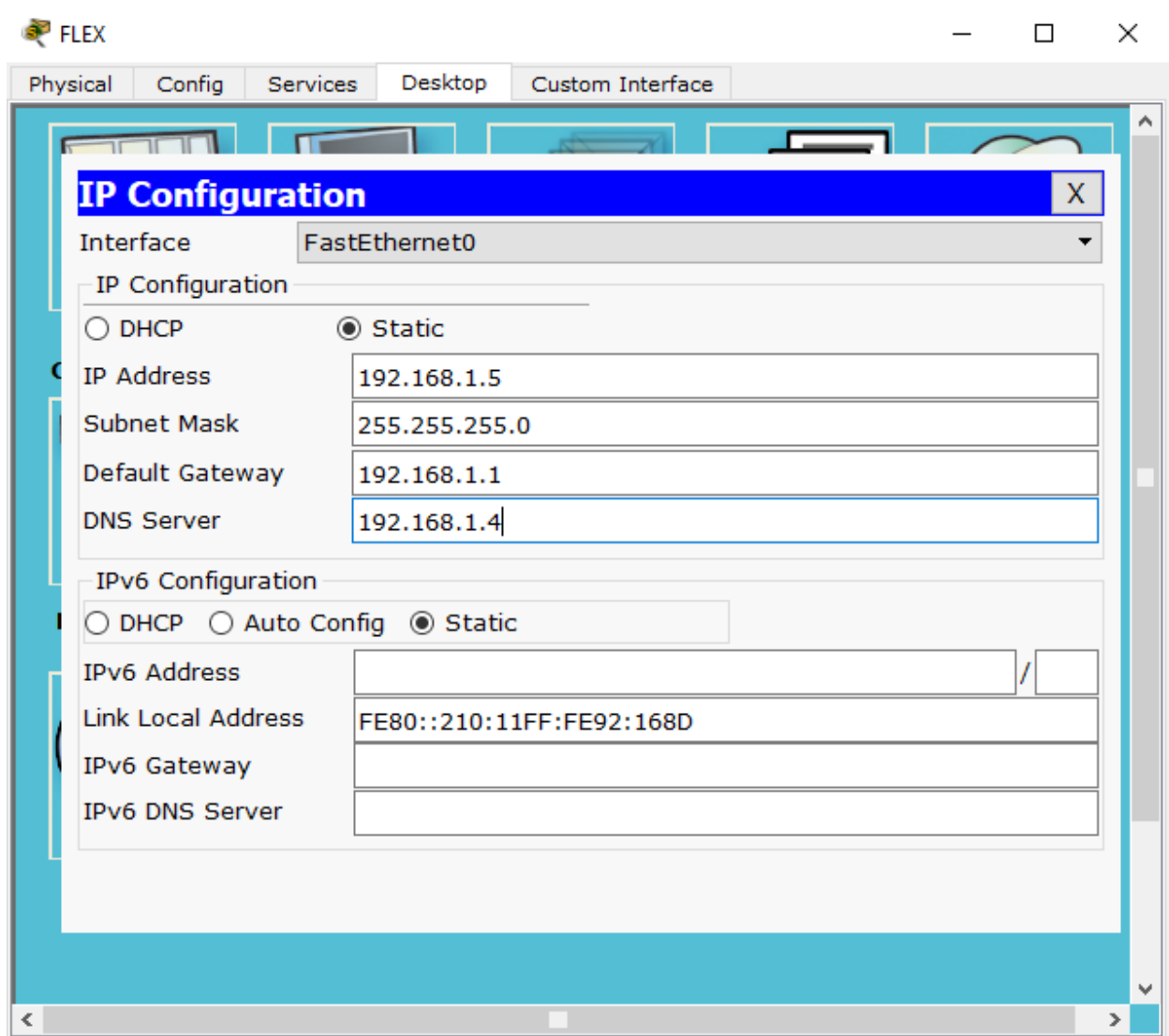
SLATE WEB SERVER CONFIG:

SALTE — □ ×

IP Configuration X

Interface	FastEthernet0 ▼

IP Configuration

○ DHCP   ◉ Static

IP Address	192.168.1.6
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
DNS Server	192.168.1.4

IPv6 Configuration

○ DHCP   ○ Auto Config   ◉ Static

IPv6 Address	/
Link Local Address	FE80::202:16FF:FE8E:C122
IPv6 Gateway	
IPv6 DNS Server	

DHCP POOL P1:

| DHCP | | | | — | □ | × |

Physical | Config | **Services** | Desktop | Custom Interface

SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP

DHCP

Interface FastEthernet0 ▼   Service ◉ On   ○ Off

Pool Name	p1
Default Gateway	192.168.1.1
DNS Server	192.168.1.4

Start IP Address : | 192 | 168 | 1 | 0 |
Subnet Mask: | 255 | 255 | 255 | 0 |

Maximum number of Users : 256
TFTP Server: 0.0.0.0

| Add | Save | Remove |

ool Nam	efault Gatewa	DNS Serve	tart IP Addre	ubnet Mas	Max User	TFTP
p2	192.168.2.2	192.168.1.9	192.168.2.0	255.255....	256	0.0.0.0
p1	192.168.1.2	192.168.1.9	192.168.1.0	255.255....	256	0.0.0.0
server...	0.0.0.0	0.0.0.0	192.168.1.0	255.255....	256	0.0.0.0

DHCP POOL 2:

DHCP

| Interface | FastEthernet0 ▼ | Service | ⦿ On | ○ Off |

Pool Name	p2
Default Gateway	192.168.2.1
DNS Server	192.168.1.4

Start IP Address :			192	168	2	0
Subnet Mask:			255	255	255	0
Maximum number of Users :	256
TFTP Server:	0.0.0.0

| Add | Save | Remove |

ool Nam	efault Gatewa	DNS Serve	tart IP Addre	ubnet Mas	Max User	TFTP
p2	192.168.2.1	192.168.1.4	192.168.2.0	255.255....	256	0.0.0.0
p1	192.168.1.1	192.168.1.4	192.168.1.0	255.255....	256	0.0.0.0
server...	0.0.0.0	0.0.0.0	192.168.1.0	255.255....	256	0.0.0.0

DNS WEB IP ALLOCATION :

No.	Name	Type	Detail
0	www.pwr.nu.edu.pk	A Record	192.168.1.7
1	www.flex.nu.edu.pk	A Record	192.168.1.6
2	www.slate.nu.edu.pk	A Record	192.168.1.5

FLEX SERVER SITE INDEX:


```
    <label for="uname"><b>Username</b></label>
    <input type="text" placeholder="Enter Username"
name="uname" required>

    <label for="psw"><b>Password</b></label>
    <input type="password" placeholder="Enter Password"
name="psw" required>

    <button type="submit">Login</button>
    <label>
      <input type="checkbox" checked="checked"
name="remember"> Remember me
    </label>
  </div>

  <div class="container" style="background-color:#f1f1f1">
    <button type="button" class="cancelbtn">Cancel</button>
    <span class="psw">Forgot <a
href="#">password?</a></span>
  </div>
</form>

</body>
</html>
```
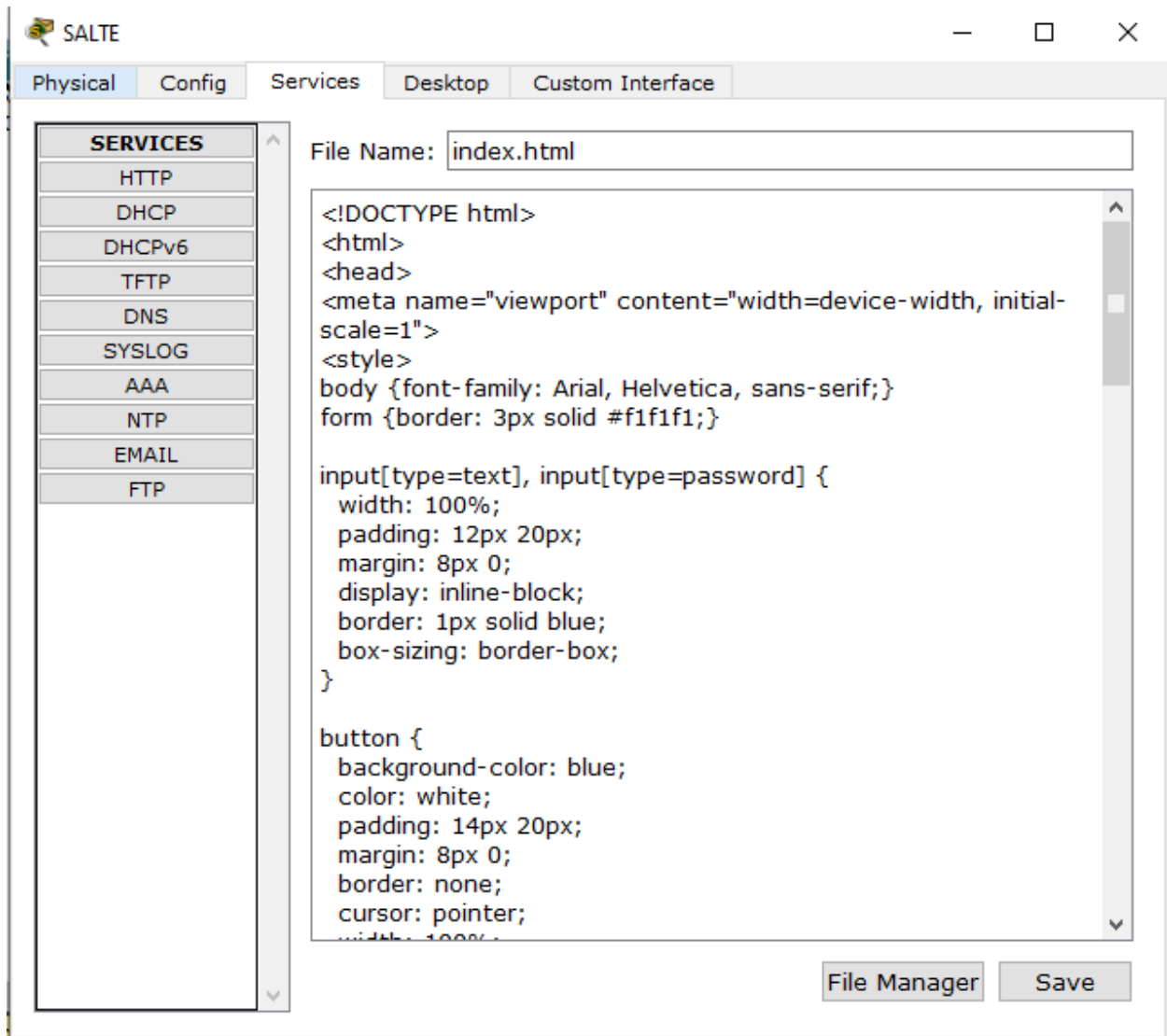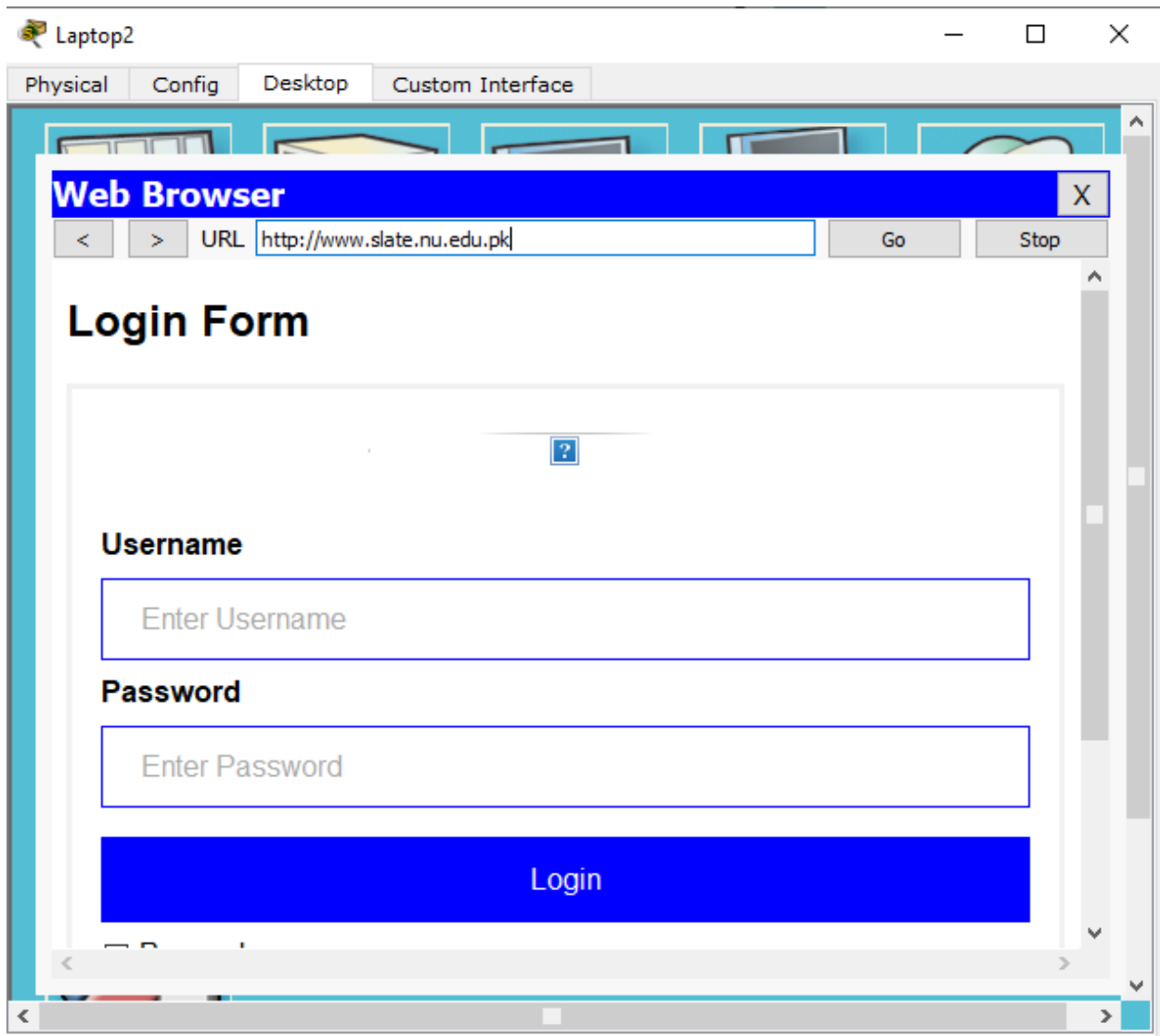
SALTE SITE INDEX:

SALTE — □ ✕

| Physical | Config | Services | Desktop | Custom Interface |

SERVICES

- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP

File Name: index.html

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-
scale=1">
<style>
body {font-family: Arial, Helvetica, sans-serif;}
form {border: 3px solid #f1f1f1;}

input[type=text], input[type=password] {
  width: 100%;
  padding: 12px 20px;
  margin: 8px 0;
  display: inline-block;
  border: 1px solid blue;
  box-sizing: border-box;
}

button {
  background-color: blue;
  color: white;
  padding: 14px 20px;
  margin: 8px 0;
  border: none;
  cursor: pointer;
```

File Manager   Save

PC TO SLATE:

Pc to flex:

Mail server Configuration:

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DNS

Physical **Config** **Services** **Desktop** **Custom Interface**

SERVICES
HTTP
DHCP
DHCPv6
TFTP
DNS
SYSLOG
AAA
NTP
EMAIL
FTP

DNS

DNS Service   ◉ On   ○ Off

Resource Records

Name [   ]   Type [A Record ▾]

Address [   ]

[Add]   [Save]   [Remove]

No.	Name	Type	Detail
0	mail.com	A Record	192.168.1.8
1	www.flex.nu.edu.pk	A Record	192.168.1.6
2	www.pwr.nu.edu.pk	A Record	192.168.1.7
3	www.slate.nu.edu.pk	A Record	192.168.1.5

[DNS Cache]

Mail — □ ×

Physical | Config | **Services** | Desktop | Custom Interface

SERVICES
- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP

EMAIL

SMTP Service
- ◉ ON   ○ OFF

POP3 Service
- ◉ ON   ○ OFF

Domain Name: **mail.com**   [Set]

User Setup

User [ ]   Password [ ]

```
nomi
nomi1
nomi2
```

[+]

[-]

[Change Password]

Sending mail to no1@mail.com , with subject : sd ..   Mail Server: mail.com
DNS resolving. Resolving name: mail.com by querying to DNS Server: 192.168.1.4 DNS resolved ip address: 192.168.1.8
Send Success.

Laptop3 — □ ✕

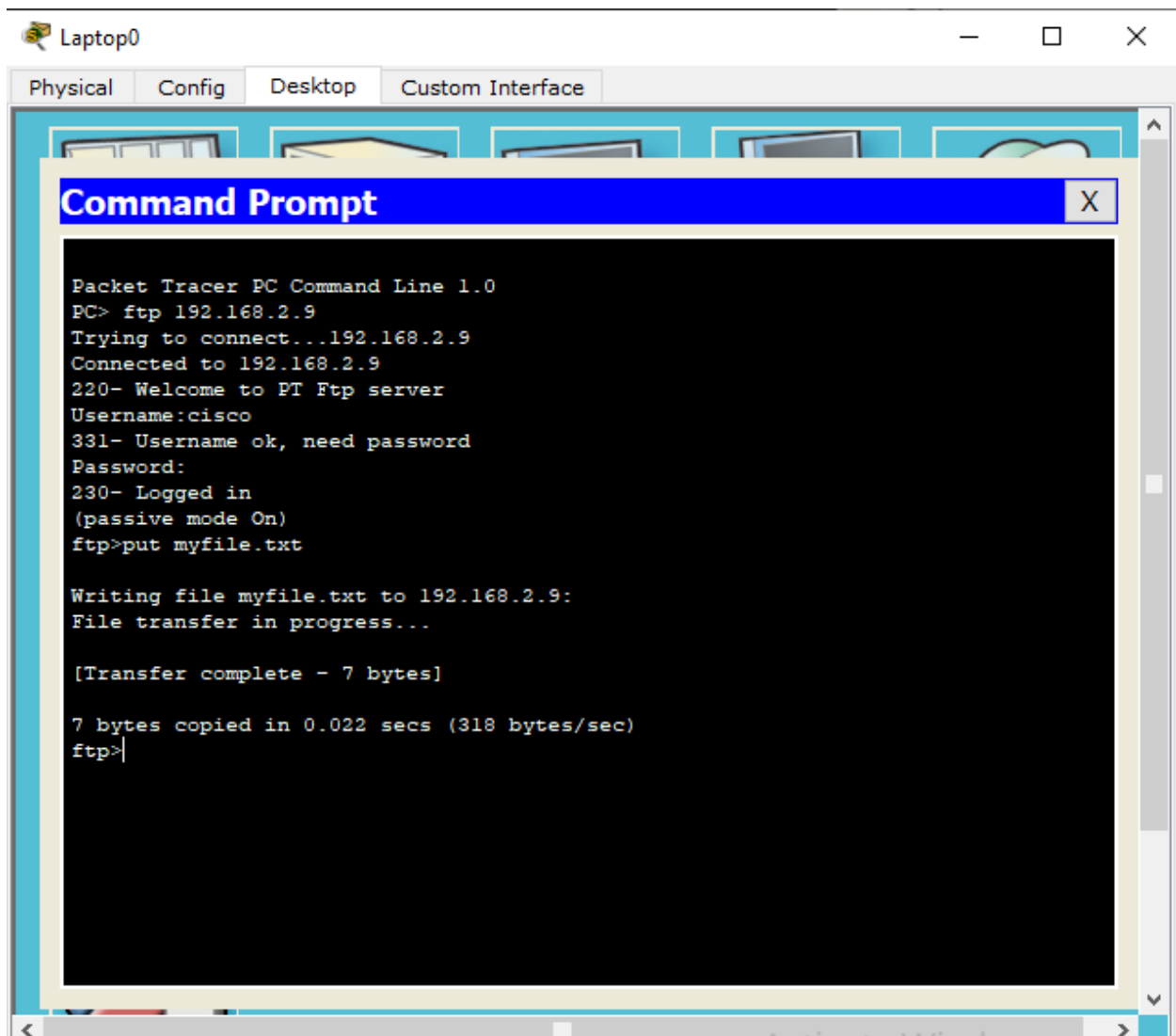Physical   Config   **Desktop**   Custom Interface

MAIL BROWSER   X

Mails

| Compose | Reply | Receive | Delete | Configure Mail |

	From	Subject	Received	
1	no@mail.com	sd	Wed Nov 3 2021 02:3...	

Ftp server Config:

ftp — □ ×

| Physical | Config | Services | Desktop | Custom Interface |

SERVICES
- HTTP
- DHCP
- DHCPv6
- TFTP
- DNS
- SYSLOG
- AAA
- NTP
- EMAIL
- FTP

FTP

Service   ⦿ On   ○ Off

User Setup

Username [   ]   Password [   ]

☐ Write   ☐ Read   ☐ Delete   ☐ Rename   ☐ List

	Username	Password	Permission
1	cisco	cisco	RWDNL

Add

Save

Remove

File

17	c3560-advipservicesk9-mz.122-37.SE1.bin
18	myfile.txt
19	pt1000-i-mz.122-28.bin
20	pt3000-i6q4l2-mz.121-22.EA4.bin

Remove

Laptop0

— □ ✕

Physical | Config | Desktop | Custom Interface

Web Browser [X]

< | > | URL | http://192.168.2.9/flex.html | Go | Stop

Flex Academic Suite

Username

Enter Username

Password

Modified Topology: