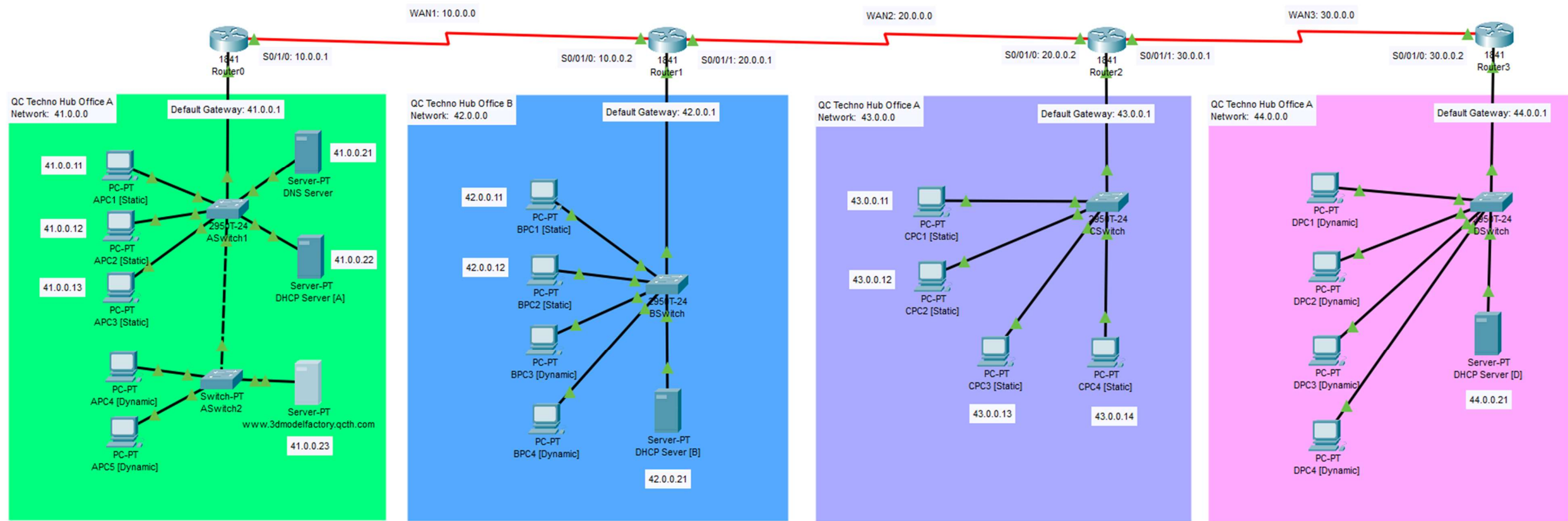


Quezon City Techno Hub Offices
Network Layout



MIDTERM EXAM

MARASIGAN, VEM AIENSI A.
2BSCS-1

IP ADDRESS TABLE

TECHNO HUB OFFICE A		TECHNO HUB OFFICE B		TECHNO HUB OFFICE C		TECHNO HUB OFFICE D	
PC IP Addresses		PC IP Addresses		PC IP Addresses		PC IP Addresses	
APC1 [Static]	41.0.0.11	BPC1 [Static]	42.0.0.11	APC1 [Static]	43.0.0.11	APC1 [Dynamic]	(Auto Configure) 44.0.0.11
APC2 [Static]	41.0.0.12	BPC2 [Static]	42.0.0.12	APC2 [Static]	43.0.0.12	APC2 [Dynamic]	(Auto Configure) 44.0.0.12
APC3 [Static]	41.0.0.13	BPC3 [Dynamic]	(Auto Configure) 42.0.0.13	APC3 [Static]	43.0.0.13	APC3 [Dynamic]	(Auto Configure) 44.0.0.13
APC4 [Dynamic]	(Auto Configure) 41.0.0.14	BPC4 [Dynamic]	(Auto Configure) 42.0.0.14	APC3 [Static]	43.0.0.14	APC4 [Dynamic]	(Auto Configure) 44.0.0.14
APC5 [Dynamic]	(Auto Configure) 41.0.0.15						
SERVER IP		SERVER IP		SERVER IP		SERVER IP	
DNS Server	41.0.0.21	DHCP Server [B]	42.0.0.21	DHCP Server [C]	43.0.0.21	DHCP Server [D]	44.0.0.21
DHCP Server [A]	41.0.0.22						
Website Server	41.0.0.23						
ROUTER 0		ROUTER 1		ROUTER 2		ROUTER 3	
FastEthernet0/0 Default Gateway	41.0.0.1	FastEthernet0/0 Default Gateway	42.0.0.1	FastEthernet0/0 Default Gateway	43.0.0.1	FastEthernet0/0 Default Gateway	44.0.0.1
Serial0/1/0	10.0.0.1	Serial0/1/0	10.0.0.2	Serial0/1/0	20.0.0.2	Serial0/1/0	30.0.0.2
		Serial0/1/1	20.0.0.1	Serial0/1/1	30.0.0.1		

PINGING

APC1 [Static]

PhysicalConfigDesktopProgrammingAttributes

Command Prompt

C:\>ping 42.0.0.11

Pinging 42.0.0.11 with 32 bytes of data:

Reply from 42.0.0.11: bytes=32 time=69ms TTL=126
Reply from 42.0.0.11: bytes=32 time=1ms TTL=126
Reply from 42.0.0.11: bytes=32 time=60ms TTL=126
Reply from 42.0.0.11: bytes=32 time=32ms TTL=126

Ping statistics for 42.0.0.11:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 69ms, Average = 40ms

C:\>ping 44.0.0.14

Pinging 44.0.0.14 with 32 bytes of data:

Reply from 44.0.0.14: bytes=32 time=116ms TTL=124
Reply from 44.0.0.14: bytes=32 time=89ms TTL=124
Reply from 44.0.0.14: bytes=32 time=132ms TTL=124
Reply from 44.0.0.14: bytes=32 time=4ms TTL=124

Ping statistics for 44.0.0.14:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 4ms, Maximum = 132ms, Average = 85ms

DPC2 [Dynamic]

PhysicalConfigDesktopProgrammingAttributes

Command Prompt

Cisco Packet Tracer PC Command Line 1.0
C:\>ping 41.0.0.13

Pinging 41.0.0.13 with 32 bytes of data:

Reply from 41.0.0.13: bytes=32 time=3ms TTL=124
Reply from 41.0.0.13: bytes=32 time=95ms TTL=124
Reply from 41.0.0.13: bytes=32 time=3ms TTL=124
Reply from 41.0.0.13: bytes=32 time=83ms TTL=124

Ping statistics for 41.0.0.13:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 3ms, Maximum = 95ms, Average = 46ms

C:\>ping 43.0.0.11

Pinging 43.0.0.11 with 32 bytes of data:

Request timed out.
Reply from 43.0.0.11: bytes=32 time=80ms TTL=126
Reply from 43.0.0.11: bytes=32 time=1ms TTL=126
Reply from 43.0.0.11: bytes=32 time=41ms TTL=126

Ping statistics for 43.0.0.11:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 1ms, Maximum = 80ms, Average = 40ms

MIDTERM EXAM

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HTML CODE

www.3dmodelfactory.qcth.com

www.3dmodelfactory.qcth.com

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

File Name: index.html

<html>
<head>
<title> VEM 3D Studios </title>

<style>
body {font-family: Helvetica} * {box-sizing: borderbox;}

.nbg-img
{background-image: url("1.png" style = "height:80vh; width: 100%;");
position: relative;}

.container
{
position: absolute;
margin: 20px;
width: auto;
}

.topnav
{
overflow: hidden;
background-color: #333;
}

.topnav a
{
float: left;
color: #f2f2f2;
text-align: center;
padding: 14px 16px;
text-decoration: none;
font-size: 17px;
}
}

File ManagerSave

☐ Top

www.3dmodelfactory.qcth.com

PhysicalConfigServicesDesktopProgrammingAttributes

SERVICES

File Name: index.html

background-color: #ddd;
color: black;
}

</style>

</head>

<body>
<div class = "nbg-img">
<div class = "container">
<div class = "topnav">
Home
About
Projects
</div>
</div>
</div>

<div id = "home">

</div>
<div id = "about">

</div>
<div id = "projects">

</div>

</body>

<?html>

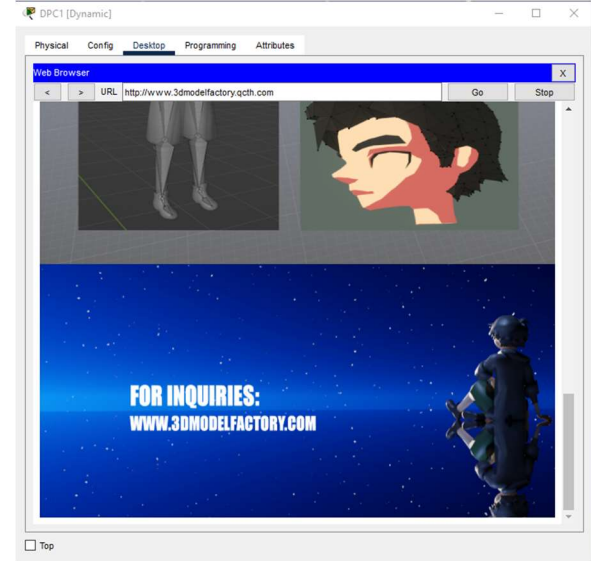
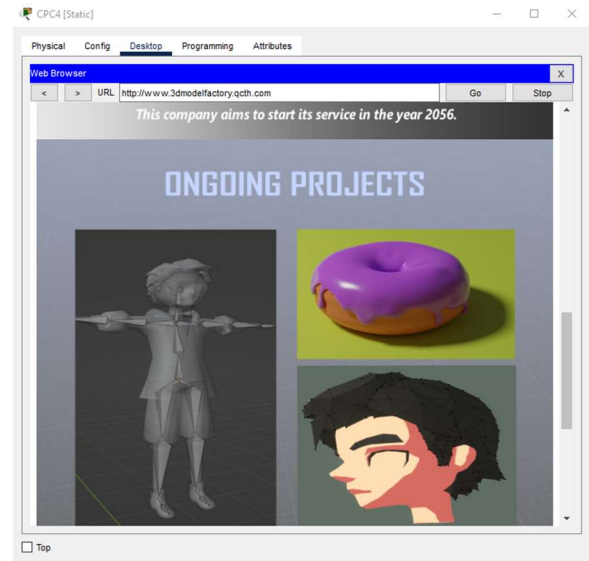
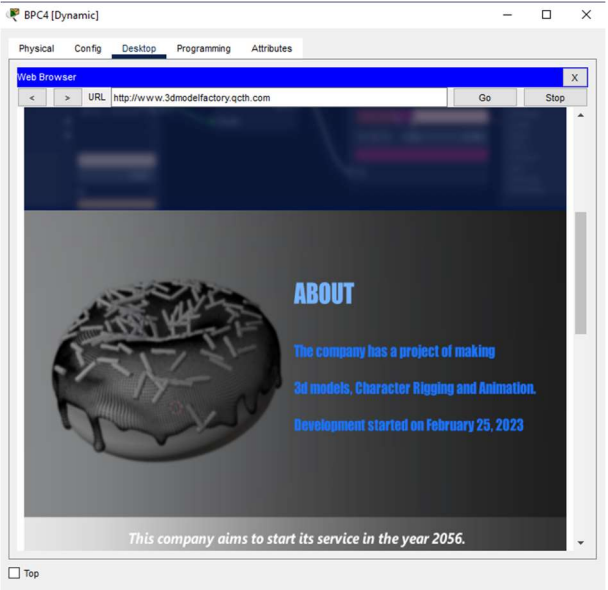
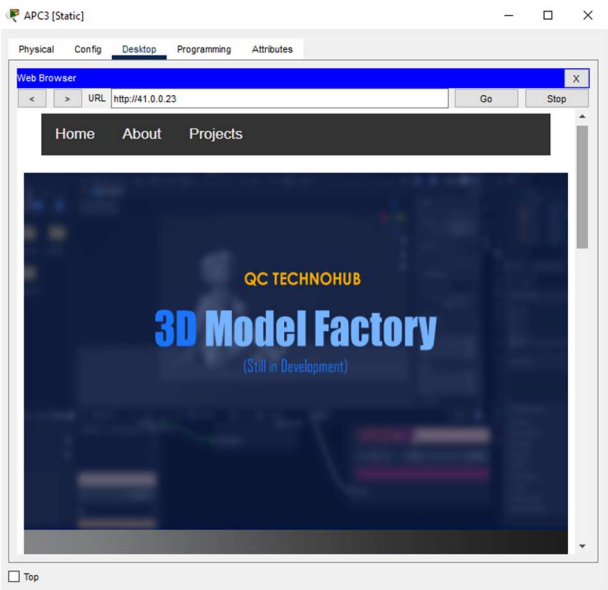
File ManagerSave

☐ Top



**Note: This website is just fictional and I only reused my assets from our earlier activities*

Website Access Across All Networks



CONCLUSION

Networking was really a great overwhelm for me at the start. But still, I was able to understand its concept bit by bit and how networking works through the midterm journey. Also, with the help of Cisco Packet Tracer, visual presentations enabled me to realize much clearer how connections happen. For me, it is a big experience learning and making activities from static routing, making LAN and WAN connections, dynamic configurations, and different server configuration. Although mistakes are inevitable is honestly quite frustrating, this also contribute a huge part in my learning curve as it engages me to think and figure out what's wrong which provided me deeper realization on what's going on and what's need to be done. This also trained me to calm down whenever something is not working as expected.

Learning Networking and Communication is a very satisfying achievement and making/simulating different network models is fun.

EXPECTATION

The next step in this journey will be a lot more challenging. Meaning, there will be a lot more simulation and exploration on using Cisco Packet Tracer. And since we will be making much more complex network models, I expect that we will encounter more errors, so a lot more patience and dedication is required. As also mentioned before, this will involve learning new other features such as Emailing.

I am looking forward to this new step in learning Networking deeper and even though it may be difficult, I hope that I can learn and expand my knowledge in Networking.