MTRN3500: Remote Desktop Access Instructions

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Connecting to UNSW VPN

- 1. Follow these instructions here to establish a VPN connection with the UNSW network: https://www.myit.unsw.edu.au/services/students/remote-access-vpn
- 2. Use the following VPN name when you are ready to connect (See Fig.1): **vpn.unsw.edu.au/feng**
- 3. Use your zID and Zpass when prompted.

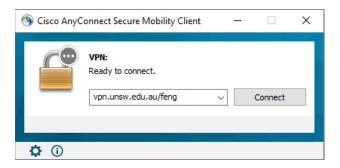


Figure 1: Cisco Anyconnect Interface

Access MTRN3500 Laboratory PCs via MyAccess

- 1. Visit https://www.myaccess.unsw.edu.au/
- 2. Install Citrix Receiver (Step 1 in the link. See Fig.2) if you are accessing this service for the first time.
- 3. Click on 'Access Your Applications' (See Fig.2).
- 4. Click on the 'Desktops' icon on the top ribbon (See Fig.3).
- 5. Select 'MEC-MTRN-J18-LAB204' (See Fig.4).

You would be redirected to one of the laboratory PCs in this cluster. Now you work on the lab experiments remotely.

Important notes:

1. Please log-in only during your assigned lab times.

- 2. After-hours access (outside the times assigned for MTRN3500 lab-sessions) is provided on first come first serve basis.
- 3. You will be automatically logged out 1 hour after logging in, without any warning. So, keep an eye on the time, and save your work regularly.
- 4. Since you will be randomly assigned to a computer in the cluster, always use your student H:/ drive to save/manage your work.



Figure 2: Steps required for MyAccess Connection

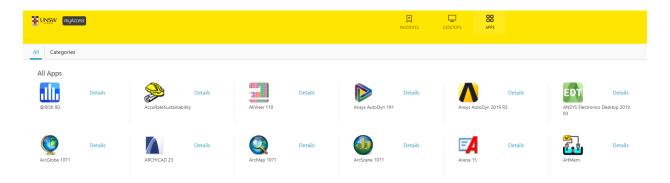


Figure 3: MyAccess Interface

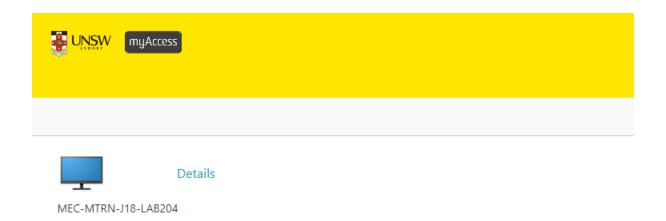


Figure 4: MEC-MTRN-J18-LAB204 Cluster

Remote Desktop Instructions for Assignment-1

Please refer to Assignment-1 instructions.

Remote Desktop Instructions for Assignment-2

Assignment-2 requires you to connect to a robot platform, referred to as the Weeder, and work with the sensors attached to the robot. To do this, you must first connect to a wireless LAN in the lab, and then establish connection with the Weeder's on-board computer. The instructions are as follows:

- 1. Connect to one of the remote PCs via MyAccess.
- Click on the Network icon on the bottom right corner of the remote desktop and connect to MTRN-WAP1 or MTRN-WAP1-5G wireless network. Use the password MTRN1234 (See Fig.5)
- Once connected to the network, open command prompt. Type the command ipconfig which will display current network information (See Fig.6). Here, Wireless LAN Adapter Wi-fi section should be populated with an IPv4 address of 192.168.1.xxx
- 4. Next type: ping 192.168.1.200 (See Fig.7). 192.168.1.200 is the IP address of the Weeder's on-board computer. A reply from the destination means that you have successfully connected to the robot. You can now continue working on Assignment-2.



Figure 5: Connecting to the Wireless LAN.

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Commend Prompt

Connection-specific DNS Suffix :
Link-local IPv6 Address . . . : f880::6c87:e8f4:8224:f9a%2
IPv4 Address . . . : 192.168.56.1
Subnet Mask . . . . : 255.255.255.0
Default Gateway . . . . :
Wireless LAN adapter Local Area Connection* 1:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Wireless LAN adapter Local Area Connection* 2:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
Uireless LAN adapter Wi-Fi:
Connection-specific DNS Suffix . :
Link-local IPv6 Address . . . : f880::29c8:f7d0:2f21:b1de%13
IPv4 Address . . . : 192.168.1.40
Subnet Mask . . . . : 255.255.255.0
Default Gateway . . . : 192.168.1.101
Ethernet adapter Bluetooth Network Connection:
Media State . . . . . : Media disconnected
Connection-specific DNS Suffix . :
H:\>
```

Figure 6: Check successful connection to the network.

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Media State . . . . . . : Media disconnected
Connection-specific DNS Suffix . :

Wireless LAN adapter Wi-Fi:

Connection-specific DNS Suffix . :
Link-local IPv6 Address . . . : fe80::29c8:f7d0:2f21:b1de%13
IPv4 Address . . . . : 192.168.1.40
Subnet Mask . . . . : 255.255.255.0
Default Gateway . . . . : 192.168.1.101

Ethernet adapter Bluetooth Network Connection:

Media State . . . . . . : Media disconnected
Connection-specific DNS Suffix . :

H:\ping 192.168.1.200
Pinging 192.168.1.200 with 32 bytes of data:
Reply from 192.168.1.200: bytes=32 time=11ms TTL=128
Reply from 192.168.1.200: bytes=32 time=5ms TTL=128
Reply from 192.168.1.200: bytes=32 time=7ms TTL=128
Ping statistics for 192.168.1.200:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trup times in milli-seconds:
Minimum = 5ms, Maximum = 13ms, Average = 9ms

H:\>
```

Figure 7: Ping the destination to ensure connection to robot.