
SIT706 Cloud Computing Technologies

Practical 2: VMware vSphere Web Client

Aims and Objectives

In this week's practical we will be working with the "NetLab+ VE" virtualization system and completing the first instructional lab (**Lab 1: Navigating the vSphere Client**) from the VMware vSphere Install, Configure, and Manage certification curriculum (**VMware vSphere ICM version 6**).

This week you will learn how to navigate and work in the vSphere Web Client, which you will use in future labs. vSphere Web Client is used for managing virtualization infrastructure.

As a taste of what's to come, over the next 10 weeks you will use the following labs from VMware vSphere ICM version 6.

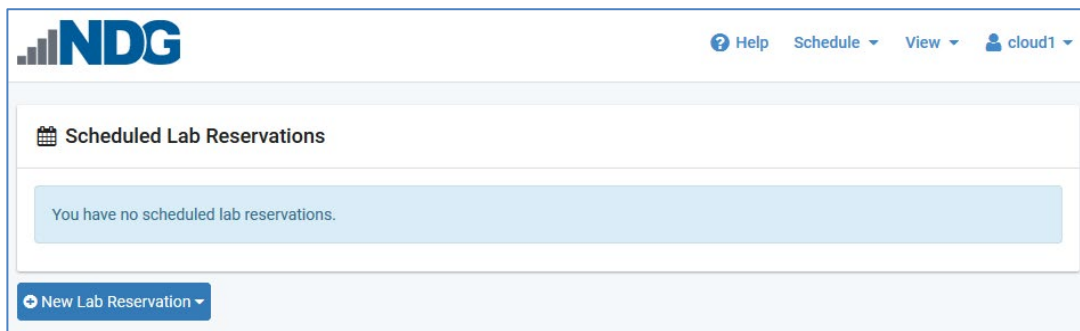
Week	Lab
2	Lab 1: Using the VMware vSphere Web Client
3	Lab 2: Configuring VMware vCenter Server Appliance Lab 3: Configuring VMware ESXi
4	Lab 5: Access Control Lab 6: Creating Folders in VMware vCenter Server
5	Lab 4: Working with Virtual Machines Lab 12: Modifying a Virtual Machine
6	Lab 13: Migrating Virtual Machines Lab 14: Managing Virtual Machines Lab 17: Monitoring Virtual Machine Performance
7	Lab 7: Using Standard & Distributed Switches Lab 11: Using Templates and Clones
8	Lab 8: Accessing iSCSI Storage Lab 9: Accessing NFS Storage Lab 10: Managing VMware vSphere
9	Lab 15: Managing VMware vSphere vApps Lab 16: Resource Pools
10	Lab 18: Using Alarms Lab 19: Using vSphere High Availability
11	Lab 20: VMware vSphere Distributed Resource Scheduler Lab 21: Configuring VMware vSphere Fault Tolerance

Using NetLab+ VE

You will be using the School's NetLab infrastructure (based on NetLab+ VE) which can be accessed via <https://vmlab.it.deakin.edu.au/>

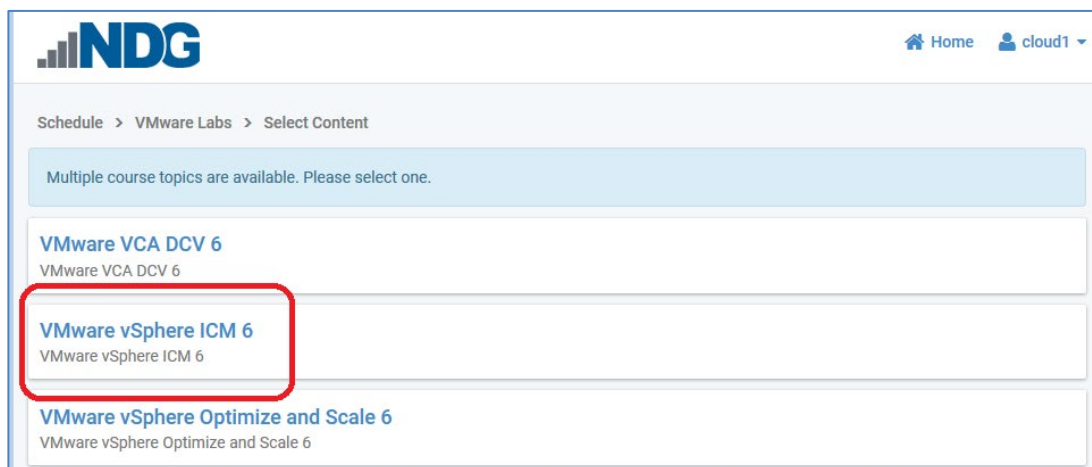
You should have received an email containing the information you require to login to NetLab.

Begin by logging in to the NetLab system using your NetLab username and password. You should see something like the following after login. Notice that there are no lab reservations.

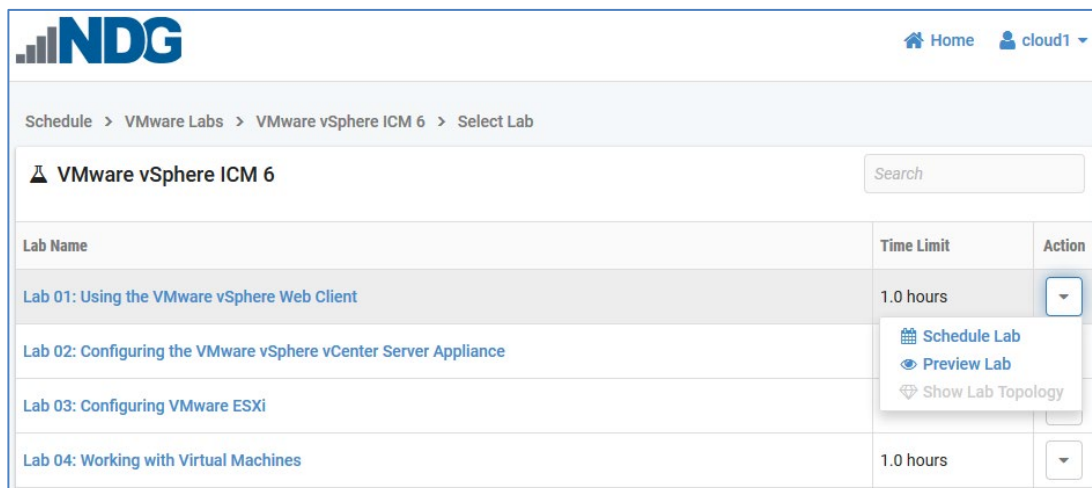


Once you have logged in, to schedule a particular lab, click on the **New Lab Reservations** menu, and select the **Schedule Lab for myself** menu-item.

You might be presented with a list of courses, click on the **VMware vSphere ICM 6** button.

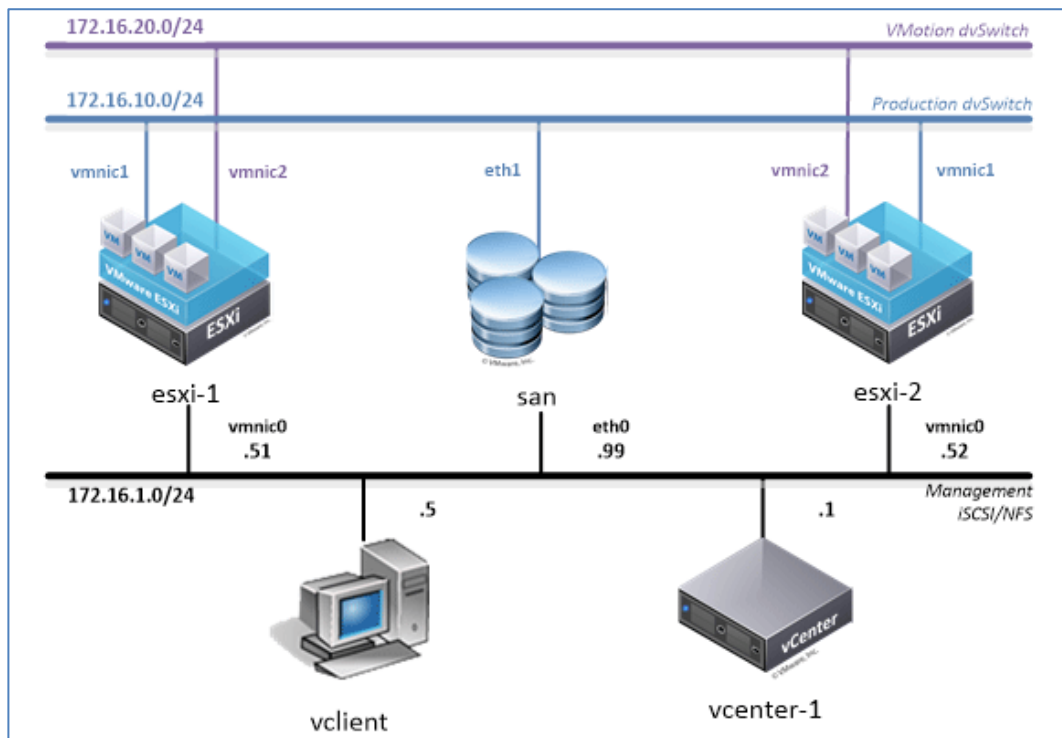


You will now be presented with a list of available labs such as:



The **Action** menu, on the right hand side, allows you to:

- book/schedule a lab to complete your work,
- view a PDF file containing the lab instructions, and
- view a diagram (as below) of the virtual environment (Pod) used for this lab and also all other labs in this series.



Click on **New Lab Reservation > Schedule Lab for Myself** menu-item to start a Pod booking. You need to consider a date, Pod number, and a time.

In this example, I decided to use POD 03, and I clicked just underneath that red line (see image below) to ensure the booked Pod is immediately available to start work.

The screenshot shows the NDG Pod Scheduler interface. The top navigation bar includes "Home" and "cloud1". The breadcrumb trail is: "Select Content (VMware vSphere ICM 6) > Select Lab (Lab 01: Using the VMware vSphere Web Client) > Reserve Pod". The main section is titled "Pod Scheduler".

On the left, a calendar for February 2019 is displayed. The 18th is highlighted. The "Selected Day" is February 18, 2019. The "Current Time" is 14:32, with locations listed as Canberra, Melbourne, Sydney.

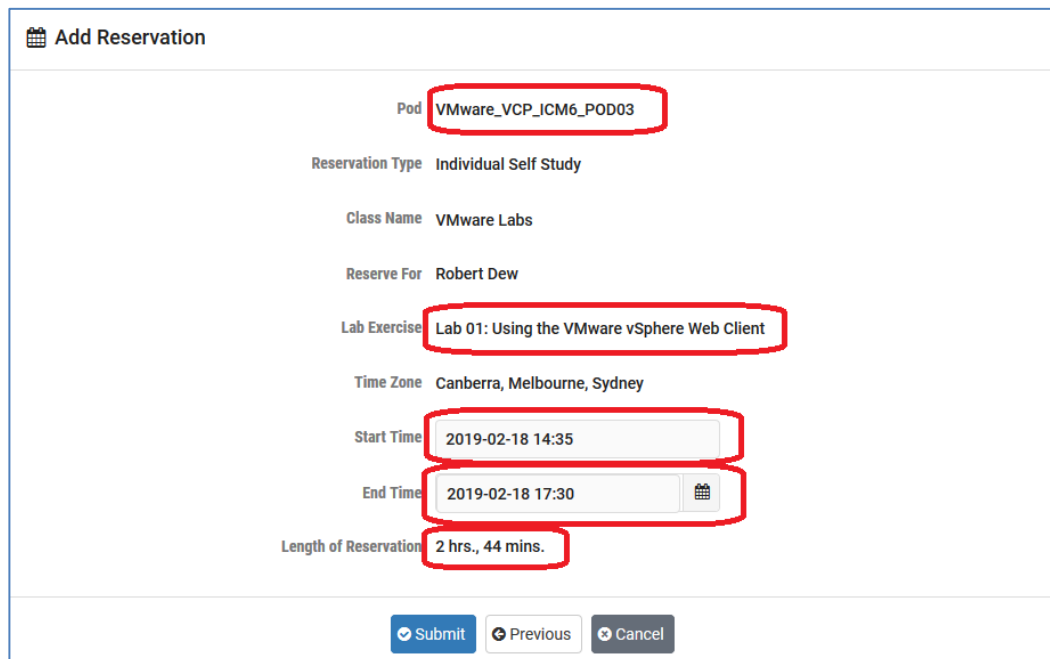
The reservation table below shows four VMware VCP ICM 6 pods (POD01 to POD04). The table has columns for the pod name and rows for time slots from 14:00 to 18:00. Reservation 41181 is shown for the first two pods at 14:00. Reservation 41182 is shown for the second and third pods, with a red rectangle highlighting the booking area for the third pod.

	VMware_VCP_ICM6_POD01 vmware VCP ICM 6	VMware_VCP_ICM6_POD02 vmware VCP ICM 6	VMware_VCP_ICM6_POD03 vmware VCP ICM 6	VMware_VCP_ICM6_POD04 vmware VCP ICM 6
14:00	Reservation 41181			
15:00		Reservation 41182		
16:00				
17:00				
18:00				

A dialog will appear allowing you to confirm the details of your booking.

Note that the End Time can be changed by clicking on the **calendar icon** (see image below).

Click on the **Submit** button to complete the booking.

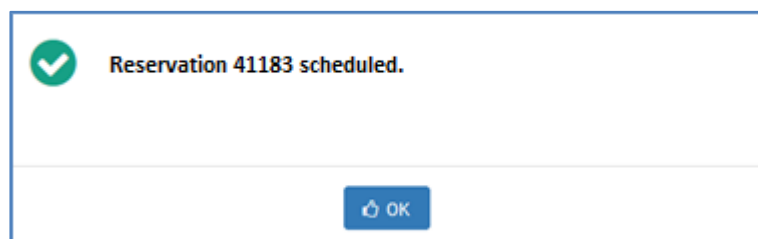


The 'Add Reservation' dialog box contains the following fields and values:

- Pod: VMware_VCP_ICM6_POD03
- Reservation Type: Individual Self Study
- Class Name: VMware Labs
- Reserve For: Robert Dew
- Lab Exercise: Lab 01: Using the VMware vSphere Web Client
- Time Zone: Canberra, Melbourne, Sydney
- Start Time: 2019-02-18 14:35
- End Time: 2019-02-18 17:30 (with a calendar icon for editing)
- Length of Reservation: 2 hrs., 44 mins.

At the bottom are three buttons: 'Submit' (blue), 'Previous' (grey), and 'Cancel' (grey).

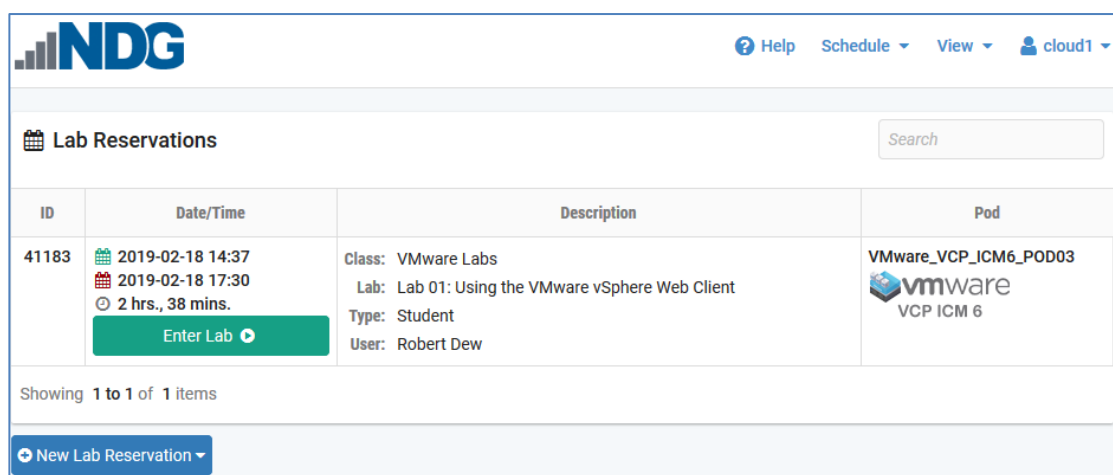
Click the **OK** button on the confirmation dialog:




The confirmation dialog shows a green checkmark icon and the text 'Reservation 41183 scheduled.' Below this is an 'OK' button.

The system will now return you to your home page, which shows the lab booking that was just created (and any other existing bookings).

When a booking time starts, the system will add a button called **Enter Lab** which is used to start/access that lab.



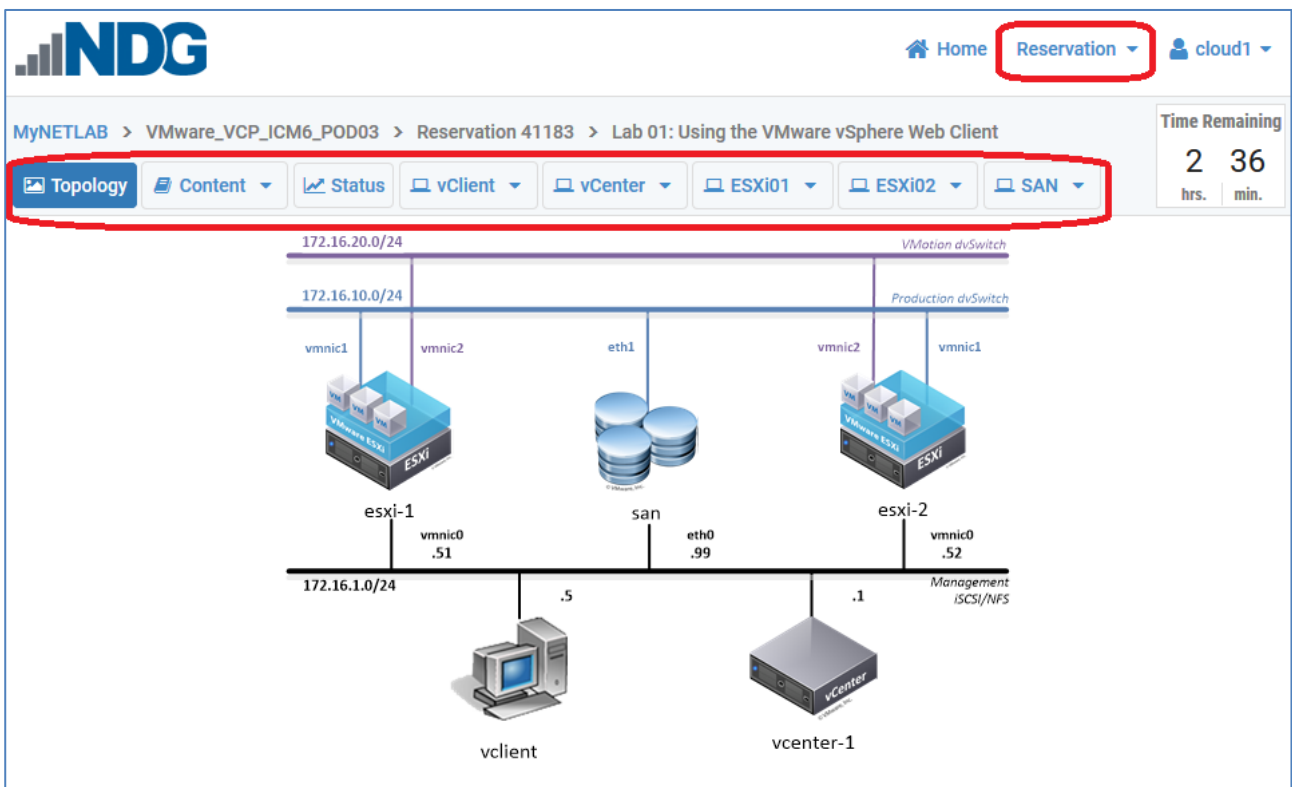
The NDG Lab Reservations page displays a table of reservations. The reservation ID 41183 is highlighted with a green 'Enter Lab' button.

ID	Date/Time	Description	Pod
41183	<div>2019-02-18 14:37</div> <div>2019-02-18 17:30</div> <div>2 hrs., 38 mins.</div> <div>Enter Lab ▶</div>	<div>Class: VMware Labs</div> <div>Lab: Lab 01: Using the VMware vSphere Web Client</div> <div>Type: Student</div> <div>User: Robert Dew</div>	<div>VMware_VCP_ICM6_POD03</div> <div> VCP ICM 6</div>

Showing 1 to 1 of 1 items

[New Lab Reservation](#)

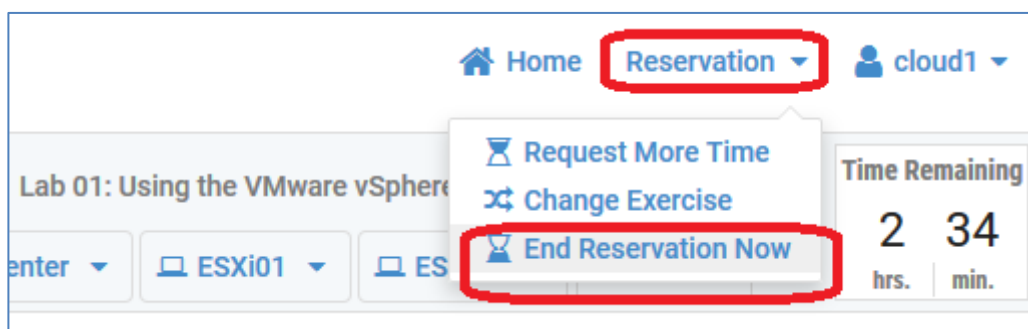
Click on the **Enter Lab** button to begin work. You will now be shown the virtual machines and networks (the POD topology) associated with this lab you have chosen to complete:



There are a number of important elements on this screen:

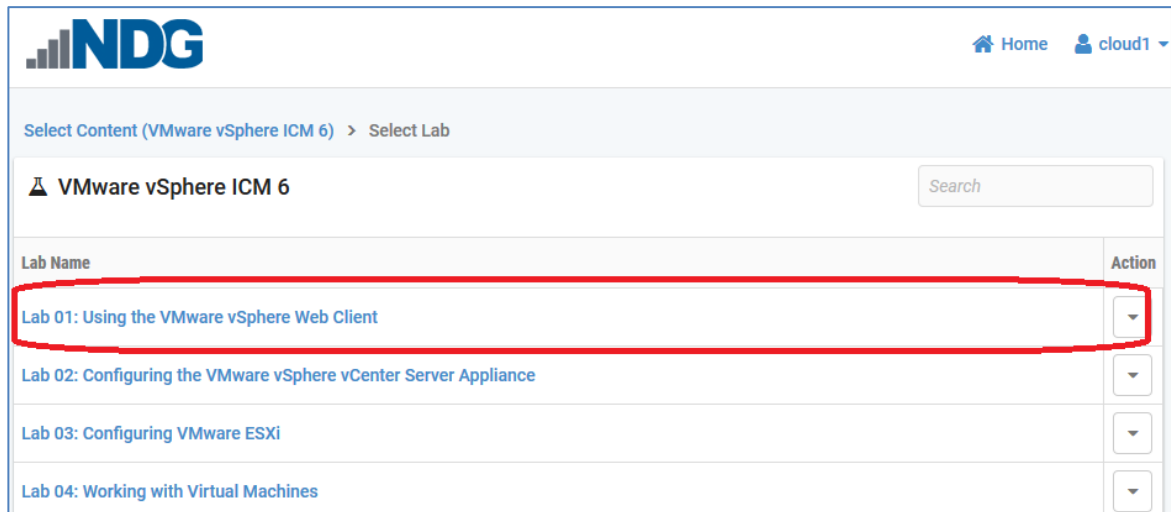
- Clicking the **Reservation > End Reservation Now** menu-item is used when you have completed working on the lab task and will end your booking, freeing the equipment POD for others to book and use;
- Clicking the **Content > Open In A New Window** menu-item will open a new window containing instructions for completing this lab; and
- Clicking on a menu (**vClient**, **vCenter**, **ESXi01**, **ESXi02**, or **SAN**) will open a new window for you to control that particular device/VM. You can also click on the device icons within the topology diagram.

Once you have completed all work on a Pod, ensure you click on the **Reservation > End Reservation Now** menu-item to release the Pod's resources for others to use.



Practical Tasks

For this week's practical class, you are required to complete the **VMware vSphere ICM 6** lab called **Lab 1: Using the VMware vSphere Web Client**.



Following the instructions above, start by booking a Pod and click the **Enter Lab** button to access Lab 1.

The instructions for this lab can be found by clicking on the **Content** menu as explained above.

Please follow the NetLab instructions carefully, otherwise you might encounter problems and might not be able to complete this lab and the associated quiz.

Once you have completed the lab, feel free to explore the different VMs and the vSphere Web Client in particular to gain more experience with the system.