

# 530 Lab Instructions

|           |                          |
|-----------|--------------------------|
| Server:   | iselab01.ece.iastate.edu |
| User:     | NETID                    |
| Password: | NETID PASSWORD           |

To access the lab go the URL: <https://iselab01.ece.iastate.edu/vsphere-client> in the browser of your choice. It is recommended to use a browser that supports Flash, as HTML5 support within VCenter is still experimental.

In your browser connect with:

**Server Name:** *iselab01.ece.iastate.edu*

**User name:** *your netid*

**Password:** *your netid password*

**Note:** VMWare also has a desktop client, however it is no longer supported by the version of ESXi we are using and will throw an error if you try to connect to VCenter using it.

You have been given one virtual machine:

| VM                     | Description   |
|------------------------|---|
| kali-student-cpre530-# | This virtual machine is running a copy of Kali Linux. It's IP address is in the competition pool. |

Username: **student**

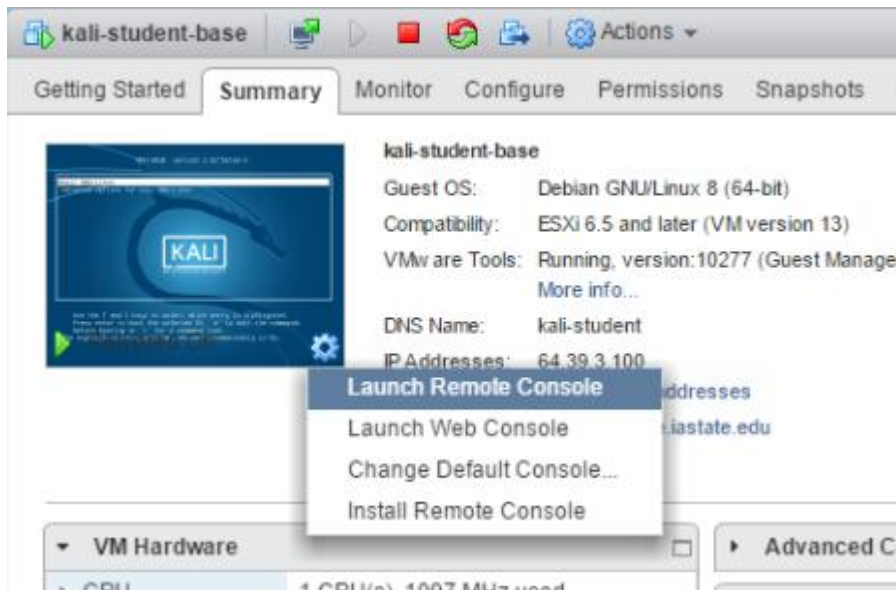
Password: **cpre530**

## Accessing Your VM

There are two ways to access your VM, the Web Console and the Remote Console. The **Remote Console** is preferred since it will cause less load on VCenter as well as have better performance for the student. There are two requirements for the Remote Console however:

1. You need to be either within ISU's network or using ISU's VPN - <https://www.it.iastate.edu/howtos/vpn>
2. You'll need to install VMWare's browser plugin. This will be handled automatically for you the first time you try to access a VM with the Remote Console.

To use the Remote Console simply select it from the list of options given from the cogwheel under the Summary tab for your VM.



## Accessing the Internet

By default all your traffic will be routed through the lab environment. If you need to access the Internet you'll need to configure your host to use the proxy.

From a shell this can be done by issuing the following commands as the student user:

```
proxyme ← Configures shell to use the proxy  
unproxyme ← Removes proxy settings from the shell
```

Note: these two commands are just aliases to set the proxy environment variables in the shell. If you want to know what they are doing simply look at the file `~/bashrc`. Additionally, if you change shells you'll need to either recreate the aliases or manually set the proxy env yourself.

To access the Internet through the web browser, you'll need to tell Firefox about the proxy. This is done by going to the top right options menu and select "Preferences." From there you'll need to select Advanced->Network->Settings and configure like the picture below.

**Configure Proxies to Access the Internet**

☐ No proxy

☐ Auto-detect proxy settings for this network

☐ Use system proxy settings

☒ Manual proxy configuration:

HTTP Proxy:  Port:

☒ Use this proxy server for all protocols

SSL Proxy:  Port:

FTP Proxy:  Port:

SOCKS Host:  Port:

☐ SOCKS v4 ☒ SOCKS v5 ☐ Remote DNS

No Proxy for:

Example: .mozilla.org, .net.nz, 192.168.1.0/24

☐ Automatic proxy configuration URL:

☐ Do not prompt for authentication if password is saved

**Alternatively**, there are two icons on the desktop for two different profiles for Firefox already set. One that has the proxy configuration and another that does not have the proxy configured. You can use these icons to launch different instances of Firefox without having to manually enter the proxy information every time you want to access the actual Internet.

## Internal Services

There is a web and email server configured in the lab environment that can be accessed with the domain name: **cpre530class.com**.