

How to Access iDASH-Cloud VM

Prerequisites

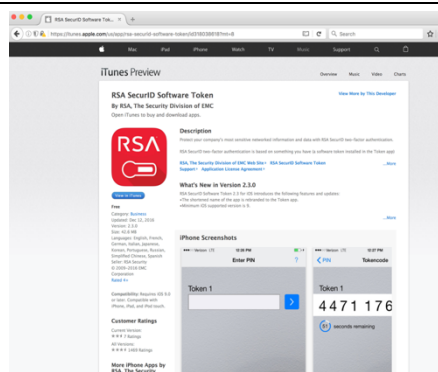
You should have

- ✓ a valid UC San Diego email account
- ✓ a smartphone with operating system either iOS or Android
- ✓ a laptop/desktop computer with an internet connection

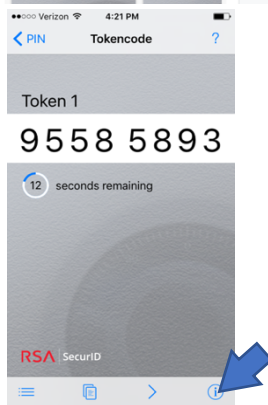
RSA Secure ID

On your smartphone, follow six steps below to install and register your RSA SecureID.

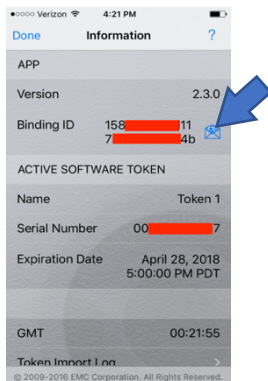
1. Search, install, and run 'RSA SecureID' app in your smartphone.



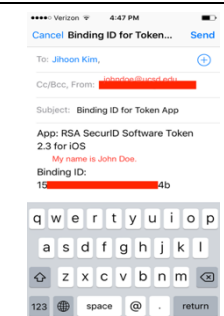
2. Click 'information' on the bottom of RSA app smartphone.



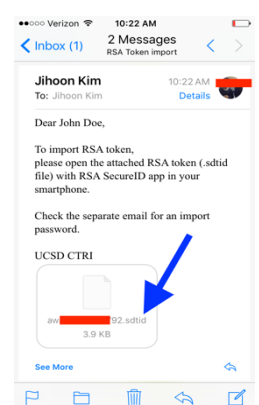
3. Click 'email' to send your binding ID (in iOS) or device ID (in Android)



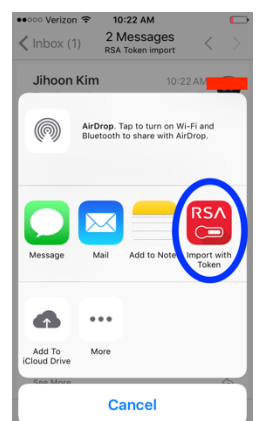
4. Type your name in the email content and send this email to Jihoon Kim (j5kim@ucsd.edu)



5. Read the email from iDASH-Cloud System Administrator with your smartphone email app such as Microsoft Outlook. (This may take 2~ 3 days after sending your RSA SecureID binding ID in step #4). You will receive two different passwords: (1) An RSA token import password, used only once for import in step #6 of RSA Secure ID right below and (2) An RSA pin, a 4-digit number, to be used every time you log in to an iDASH VM.



6. Import the attached RSA token (.sdtid file in the email) by opening it with RSA SecureID app. Use the RSA token import password received by an email.

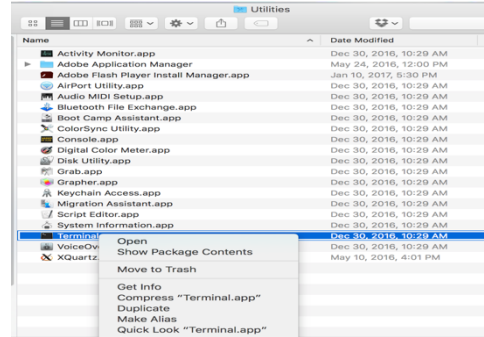


Cisco AnyConnect

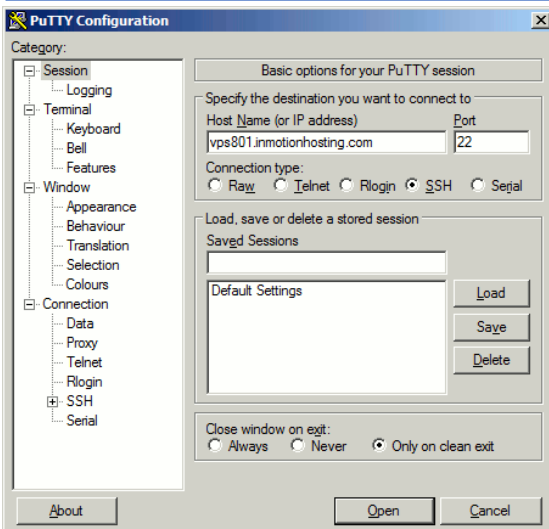
On your laptop computer, install AnyConnect, a VPN Client by Cisco, following the instruction in <https://blink.ucsd.edu/technology/network/connections/off-campus/VPN/index.html>

SSH client

Mac users already have a SSH client, which can be found, from Finder, by Applications >> Utilities >> Terminal.



Windows users can install Putty (<https://www.putty.org>) from <https://tartarus.org/~simon/putty-snapshots/x86/putty.exe>

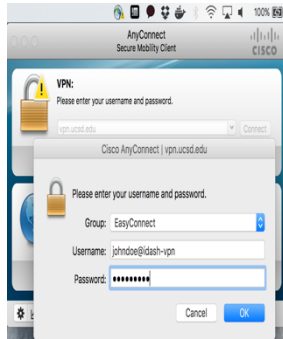
A screenshot of the Putty.org website. It features a small image of the Putty application window on the left and text on the right that reads: 'Download PuTTY', 'PuTTY is an SSH and telnet client, developed originally by Simon Tatham for the Windows platform. PuTTY is open source software that is available with source code and is developed and supported by a group of volunteers.', and 'You can download PuTTY [here](#).'


How to create a new virtual machine

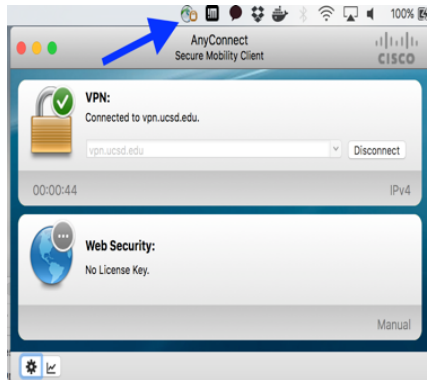
1. On your laptop computer, run AnyConnect and type in host = **vpn.ucsd.edu**,
Group = **EasyConnect**,
Username = **UCSD_username@idash-vpn**,
Password = **UCSD_password**.

UCSD_username and UCSD_password are same as your UCSD email credentials.

Be sure to add 9 characters, '@idash-vpn', after your UCSD username.



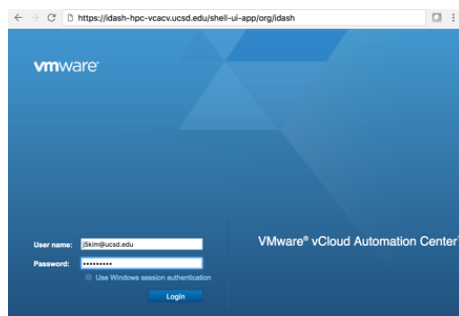
2. Click AnyConnect icon and select 'Show AnyConnect window' to check VPN connection status. A gold lock and message of "Connected to vpn.ucsd.edu" indicate a successful VPN connection.



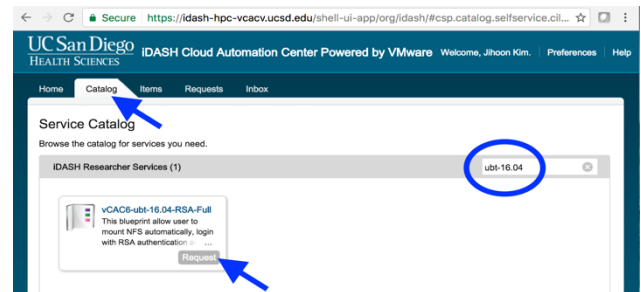
3. Open a web-browser and visit iDASH-Cloud vCloud Automation Center (vCAC),
<https://idash-hpc-vcacv.ucsd.edu/shell-ui-app/org/idash>.

And type UCSD username and password.

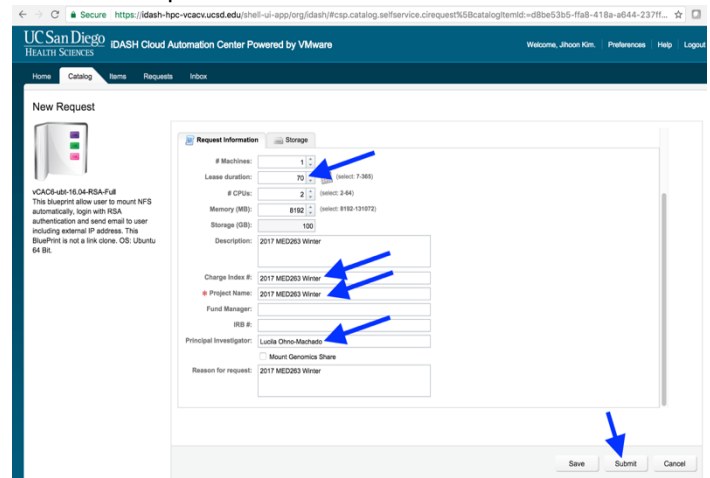
Please add '@ucsd.edu' after your username.



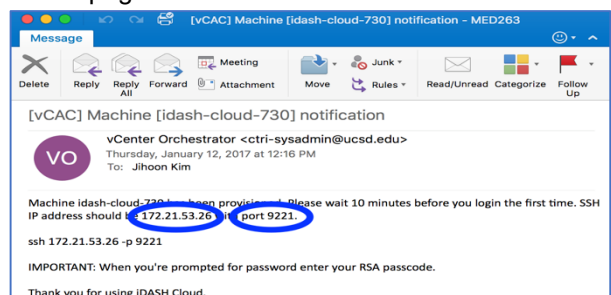
4. Click 'Catalog' tab on the top, type 'ubt-16.04' in the search box on the right to find a VM-template of Ubuntu 16.04 (Xenial Xerus), and then click 'Request' button.



5. Type 'Charge Index #', 'Project Name', and 'Principal Investigator', Change the 'lease duration' to 70 days (until the end of MED 263 class). And press the 'Submit' button to make a request.



6. Once VM instance is ready according to your request in step #5 above, you will receive a VM-ready notification email with an IP address and a port number. Use these VM information to SSH log in to VM, following the instructions in <How to log in to an existing virtual machine> in page 4.



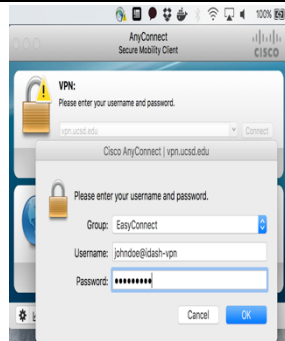
How to log in to an existing virtual machine (VM)

Access an existing VM with a *known* IP address and a port number.

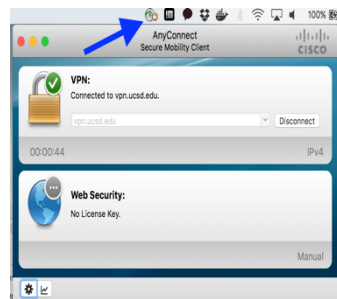
1. On your laptop computer, run AnyConnect and type in host = **vpn.ucsd.edu**,
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Username = **UCSD_username@idash-vpn**,
Password = **UCSD_password**.

UCSD_username and UCSD_password are same as your UCSD email credentials.

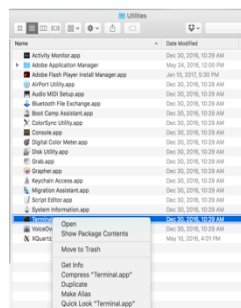
Be sure to add 9 characters, '@idash-vpn', after your UCSD username.



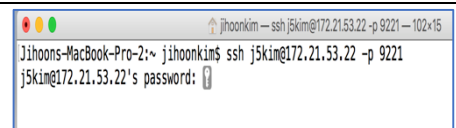
2. Click AnyConnect icon and select 'Show AnyConnect window' to check VPN connection status. A gold lock and message of "Connected to vpn.ucsd.edu" indicate a successful VPN connection.



3. Open a terminal (in Mac OS) or Putty (in Windows).



4. Mac users, type the following in the terminal,

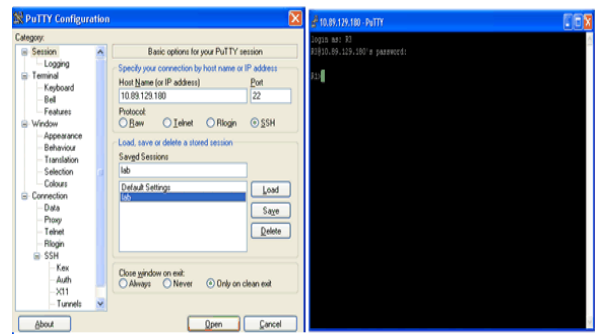


'ssh

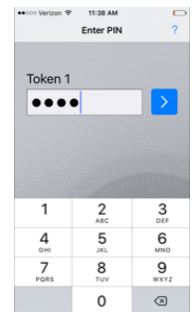
username@IP_address -p port_number'.

Put your UCSD username for a user name. Use the VM IP address and a port number you already have.

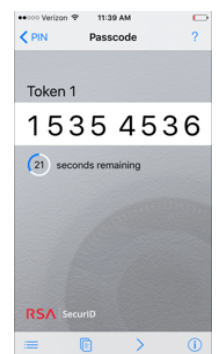
Windows users, in Putty configuration, click 'Connection', type IP_address in the Host name, and port_number in Port. Then click 'Open' to start SSH session. Type UCSD username when you see a terminal prompt with 'login as'.



5. On your smartphone, type in your RSA 4-digit pin to your RSA app.



6. Read the 8-digit password in RSA app and type it into your terminal (Mac OS) or Putty in your lap-top computer.

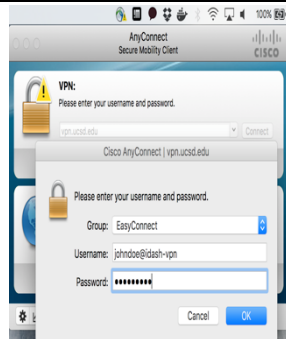


How to create a new virtual machine

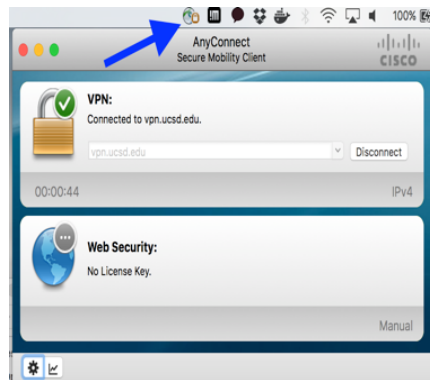
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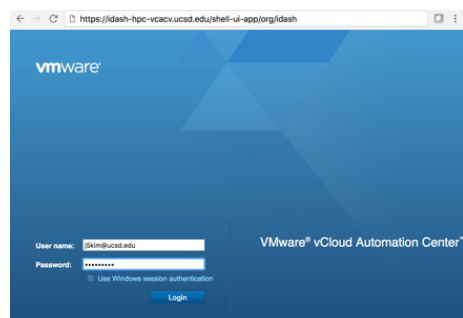
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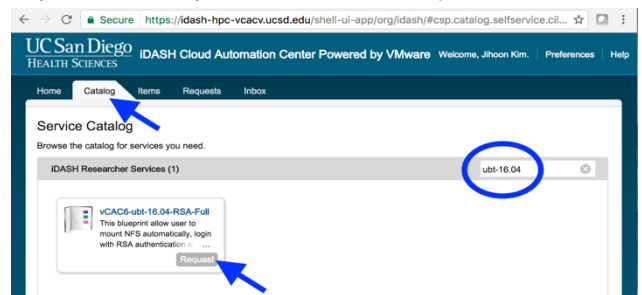
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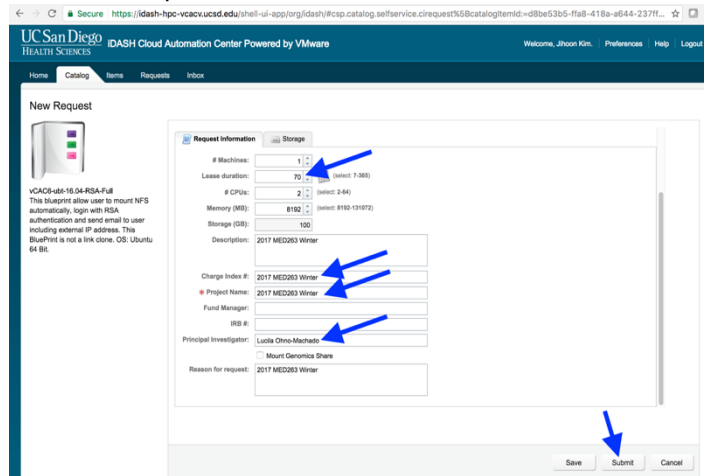
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