



ABOVE Science Cloud Webinar

3/18/2016

Agenda

1. How to log in to the ASC
 - ▶ Linux to Linux
 - ▶ Linux to Windows
 - ▶ Windows to Linux
 - ▶ Windows to Windows
2. Location of datasets on the ASC
3. Accessing imagery datasets on the ASC (Dan)
4. Resources
5. Questions/Comments

ASC Onboarding Checklist

1. Establish a NASA Identity
 2. Complete IT Security Training
 3. RSA token passcode (Pin + token numbers)
 4. NCCS User ID
 5. NCCS LDAP password
 6. For Windows VM users: Windows VM Username and Password
- ▶ Help for ASC Users: http://above.nasa.gov/sciencecloud_setup.html
 - ▶ General ADAPT Resources:
<http://www.nccs.nasa.gov/adapt/adapt.html>

NCCS Welcome Email:

“Access to NCCS ADAPT Computing Resources”

Your NCCS ADAPT User Information:

- o NCCS ADAPT Userid: jsmith
- o UID Number: 123456789
- o Computational Project(s): j1101 *Project specific to ASC Users*
- o Current Bastion Host(s): dsclogin.nccs.nasa.gov
- o Current System Host(s)
 host: dsclogin01
 host: dsclogin02
 host: jsmith101

*Note: These system and bastion hosts can change from user to user. Contact support if you need assistance: support@nccs.nasa.gov

Note: If you requested a Windows VM, you will receive a separate email with instruction on the name of your Windows VM and how to request your password for that VM.

Logging on to the ASC: Video Tutorials

- ▶ Linux to Linux – <https://youtu.be/oWa-bsnk9Jw>
- ▶ Linux to Windows - <https://youtu.be/0yblEXBLn24>
- ▶ Windows to Windows – <https://youtu.be/ZF4sEFJXfGY>
- ▶ Windows to Linux - <https://youtu.be/86ZcAe6grp8>

Logging In: Linux to Linux/Windows

- ▶ Open terminal
- ▶ “ssh -X dsclogin.nccs.nasa.gov”
 - ▶ Enter PASSCODE (RSA Token PIN + token numbers)
 - ▶ Enter Password (NCCS LDAP Password)
- ▶ Now you are in the ADAPT/ASC system
- ▶ To access your VMs:
 - ▶ Linux: “ssh jsmith101”

*Note: You may have a different bastion host, refer to your NCCS welcome email.



- ▶ Windows: “rdesktop -g 90% gs6062win58”
 - ▶ Enter your user name “ADAPT\jsmith”
 - ▶ Enter your password: You will need to contact NCCS for a temporary password

*Note: You may have a different “win” number, refer to your NCCS email.

Logging In: Windows to Windows/Linux

- ▶ Open terminal emulator (MobaXterm or Putty)
- ▶ “ssh -X dsclogin.nccs.nasa.gov”
- ▶ Enter PASSCODE (RSA Token PIN + token numbers)

*Note: You may have a different bastion host, refer to your NCCS welcome email.

- ▶ Enter Password (NCCS LDAP Password)

- ▶ Now you are in the ADAPT/ASC system

- ▶ To access your VMs:

- ▶ Linux: “ssh jsmith101”
- ▶ Windows: “rdesktop -g 90% gs6062win58”

*Note: You may have a different “win” number, refer to your NCCS email.

- ▶ Enter your user name “ADAPT\jsmith”

- ▶ Enter your password: You will need to contact NCCS for a temporary password



The ASC System (as viewed through MobaXterm)

ehoy@ngalgin.nccs.nasa.gov

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

/att/gpfsfs/home/ehoy/

Name	Size (KB)	Last modified	Owner
..			
..			
.config	1	2016-02-26 0...	ehoy
.dbus	1	2016-02-26 0...	ehoy
.gnome2	1	2014-02-23 1...	ehoy
.local	1	2016-12-10 0...	ehoy
.qgis2	1	2016-03-15 0...	ehoy
.ssh	1	2014-02-23 1...	ehoy
.w3m	1	2016-03-11 1...	ehoy
NGEE_Point	1	2016-03-14 1...	ehoy
Roads	1	2016-01-01 0...	ehoy
.bash_history	5	2016-03-14 1...	ehoy
.bash_logout	0	2014-02-23 1...	ehoy
.bash_profile	0	2014-02-23 1...	ehoy
.bashrc	0	2014-02-23 1...	ehoy
.kshrc	0	2014-02-23 1...	ehoy
.mkshrc	0	2014-02-23 1...	ehoy
.ssinotest	0	2016-11-13 0...	ehoy

Follow terminal folder

06/09/2015

Home quotas default to 20G. Similarly to Discover/Dali, we encourage you to make use of your \$NOBACKUP directory as a general working area, reserving use of /home for code and similar content which warrants falling under our limited backup capacity. \$NOBACKUP is a system environment variable which is automatically set for you, referencing /att/nobackup/\$YOUR_USERNAME.

Users are encouraged to make use of the 'ppdsh' utility as a means of easily executing jobs across multiple nodes. This tool references our local configuration management database, and as such will always reflect the current list of active nodes. Simply run 'ppdsh' for instructions on its use.

Large public datasets are available by way of /att/pubrepo, ala

- /att/pubrepo/LANDSAT
- /att/pubrepo/MERRA
- /att/pubrepo/MODIS
- /att/pubrepo/NGA

(select nodes only)

[ehoy@ngalgin02 ~]\$

Locating/Accessing Datasets on the ASC

- ▶ Mark Carroll to present

Plans for Imagery Services on the ASC

- ▶ Dan Slayback to present

Other Notes

- ▶ When finished with your Windows VM instance, be sure to “Sign Out” instead of “Disconnecting”

Resources

- ▶ Help for ASC Users: http://above.nasa.gov/sciencecloud_setup.html
- ▶ General ADAPT Resources:
<http://www.nccs.nasa.gov/adapt/adapt.html>
- ▶ NCCS Help Ticket: support@nccs.nasa.gov, ensure “ADAPT Science Cloud” is in the title
- ▶ Liz Hoy: elizabeth.hoy@nasa.gov
 - ▶ If you have a question you aren't sure about, email me and I will help you determine where to go for help
 - ▶ We do have some help available to show you how to move your code into the Linux environment and run it on multiple VMs
- ▶ Questions?