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](http://above.nasa.gov/sciencecloud_setup.html)

General ADAPT Resources: [http://www.nccs.nasa.gov/adapt/adapt.html](http://www.nccs.nasa.gov/adapt/adapt.html)
NCCS Welcome Email:
“Access to NCCS ADAPT Computing Resources”

Your NCCS ADAPT User Information:

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

*Project specific to ASC Users*

*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/0ybiEXBLn24
- 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"
  - 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 bastion host, refer to your NCCS welcome email.

*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)
  - 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”
    - 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 bastion host, refer to your NCCS welcome email.

*Note: You may have a different “win” number, refer to your NCCS email.
The ASC System (as viewed through MobaXterm)

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)
Locating/Accessing Datasets on the ASC

- Mark Carroll to present
Plans for Imagery Services on the ASC

- Dan Slayback to present
When finished with your Windows VM instance, be sure to “Sign Out” instead of “Disconnecting”
Help for ASC Users: [http://above.nasa.gov/sciencecloud_setup.html](http://above.nasa.gov/sciencecloud_setup.html)

General ADAPT Resources: [http://www.nccs.nasa.gov/adapt/adapt.html](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](mailto: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?