

# SDS 322/392 Homework Assignment 1

## Topic: Getting to know the ISP server

### Objective(s):

- Connect to `isp.tacc.utexas.edu` through an SSH client
- Research general server information using the SSH connection and basic Linux commands

### Submission Instruction(s):

- Complete the below questions and save the document in Word or PDF format with *yourEID\_SDS322\_392.<yourformat>* as the filename.
- Submit your document to the Piazza HW1 folder.

### Questions:

1. Using your SSH client, TACC Portal user account credentials (i.e. username and password), connect to “`isp.tacc.utexas.edu`”. According the SSH banner information (i.e. messages that display when you first connect to a server through SSH), what is the web address for the “TACC Usage Policies”?
2. (a) What is the machine name of the Linux server you are logged into through SSH?  
[Hint: server hostname]  
(b) What command did you use to find that information?  
(c) What reference (i.e. website, book, or other) did you use to find that command?
3. (a) What is the IP address of Linux server you are logged into through SSH?  
(b) What command did you use to find that information?  
(c) What reference (i.e. website, book, or other) did you use to find that command?
4. (a) What is the hard disk size of the `/` mount, of the Linux server you are logged into through SSH? [Hint: Another name for the “`/`” mount is the “root filesystem”]  
(b) What command did you use to find that information?  
(c) What reference (i.e. website, book, or other) did you use to find that command?
5. (a) What is the kernel version of the Linux server you are logged into through SSH?  
(b) What command did you use to find that information?  
(c) What reference (i.e. website, book, or other) did you use to find that command?

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6. (a) What is the how long has the Linux server you are logged into through SSH been running? [Hint: The amount of time the machine has been up?]  
(b) What command did you use to find that information?  
(c) What reference (i.e. website, book, or other) did you use to find that command?
7. (a) What does the `man` command do?  
(b) What reference (i.e. website, book, or other) did you use to find that information?
8. Name two (2) text editors you can use in the command line terminal in Linux.
9. What does a software compiler do?