

Final Exam Review

COOS 291



Exam Details

- Date: Wednesday April 26th
- Time: 9:00am to 12:00pm
 - You will have a total of 3 hours to complete all parts of the Final Exam
- Weighted at 40% of the Final Grade
- The entire exam is contained with in Brightspace.



Two Parts:

Section A: Written Exam

- This is Page 1 of the exam in Brightspace. Once you move on to Page 2 you will not be able to return to Page 1.
- Content Covered: (Week 7 onwards)
 - SSH, Cron, Apache, FTP, Processes, DNS, BIND, LDAP, Perl, Samba
 - Make sure you know the important files for these services and where they are located!
- Closed book.

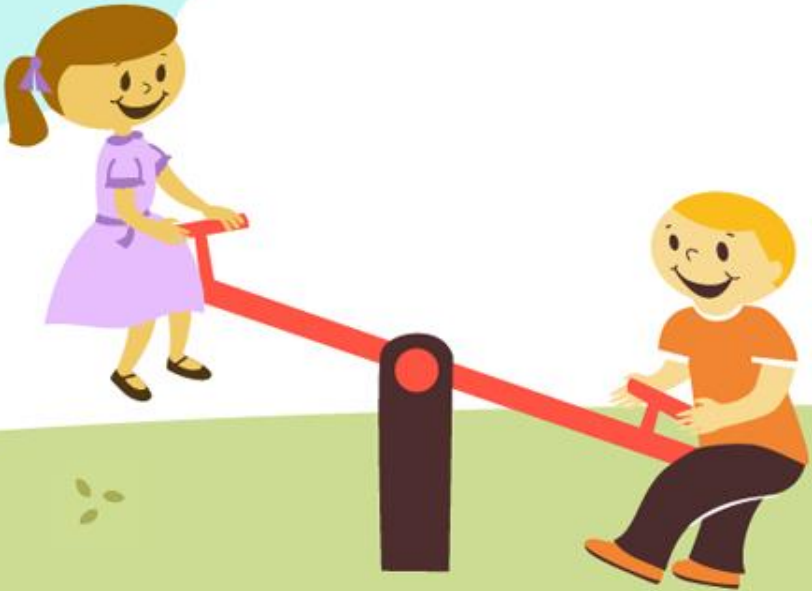
Section B: Practical Exam

- This is Page 2 of the exam in Brightspace.
- Topics Covered:
 - Apache, BIND, LDAP, Perl, Samba
- Open book
 - You may use course material in Brightspace as well as the man pages within Ubuntu.
 - This does not mean you don't need to study!
 - Having a good understanding of the Class Notes is imperative! You will NOT have enough time to look up everything you need to do!



Section A: Written Exam

Details



42 Questions worth 60 Marks:

Part 1: File/Directory Purposes: (10 Marks)

- 10 questions x 1 mark each
- Detail what the given files, or directories are responsible for.

Part 2: Provide the Path: (5 Marks)

- 5 questions x 1 mark each
- Provide full path to each of the files as described.

Part 3: Provide the Command: (10 Marks)

- 10 questions x 1 mark each
- Provide the full command, including options, required to accomplish the given tasks.

Part 4: Short Answer: (35 Marks)

- 17 questions x 1 - 5 marks each
- Various short answer questions.

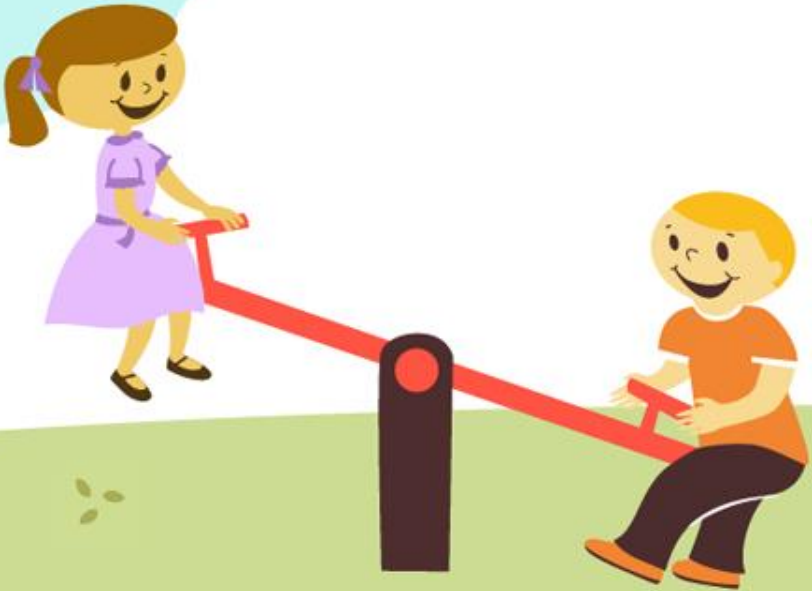


- **Make sure you review the following items for DNS/BIND:**
 - Mar 22nd Class Notes – DNS and BIND
 - Review of DNS Terminology
 - Important Files
 - DNS Record Types
 - Types of DNS Servers



Section B: Practical Exam

Details

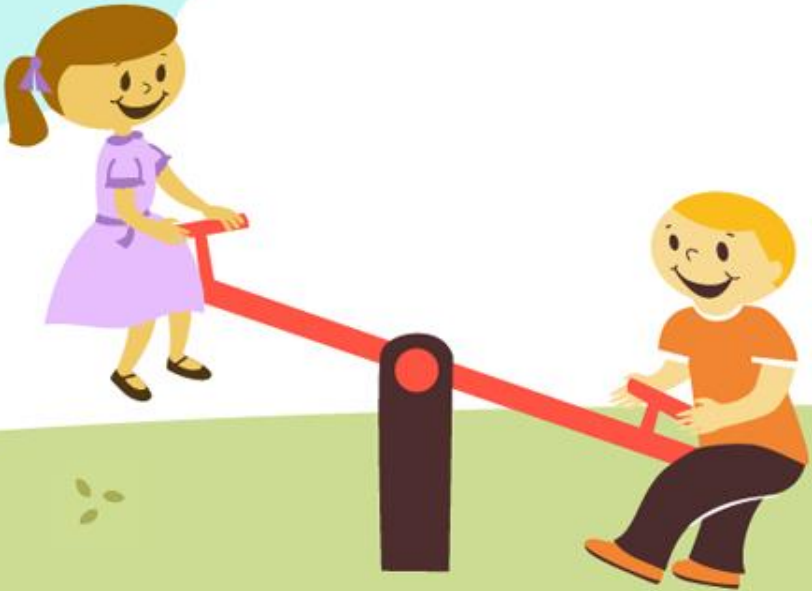


4 Questions worth 75 Marks:

- Review the Class Notes and your Assignments for:
 - LDAP Server and Client Config (25 Marks)
 - BIND/DNS (15 Marks)
 - Apache (10 Marks)
 - Perl & Samba (25 Marks)
- A VM will be provided on a USB drive.
 - *Ensure you have VMWare Workstation installed on your desktop prior to the exam date.
 - *Copy the VM off the USB drive as soon as you arrive in class to ensure it is ready for you when you complete the written exam.



Content Review for Practical Exam



- Review the following items:

- Mar 29th Class Notes – LDAP Part 1

- Install LDAP
 - **Remember to set your fully qualified hostname BEFORE installing LDAP!!**
 - Create the Base Domain then add a group and users belonging to the domain.
 - **When creating .ldif files remember that spaces are only found between entries
 - View the LDAP database.

- Apr 3rd Class Notes – LDAP Part 2

- Install the LDAP Client
 - (Yes, this mean you don't have to worry about LAM!)
 - Enable LDAP authentication.
 - PAM configuration.
 - Login using both of the new users.

- Assignment #3

- Ensure you understand the format for the .ldif files required to create the base domain, users, and groups.

LDAP



- Review the following items:
 - Mar 22nd Class Notes – DNS and BIND
 - Review the BIND Exercise:
 - Install BIND as an authoritative nameserver.
 - Set up the DNS Server
 - Ensure you understand what needs to be done to create a forward lookup zone.
 - Create the DNS database file
 - Be familiar with the syntax used in this file
 - Know what checks need to be done and how to get the named daemon to accept the new configurations.

BIND/DNS



- Review the following items:
 - Assignment 2
 - If you study this assignment and understand all of it this question will be easy!
 - Restricting access by IP address.
 - Mar 1st Class Notes – Apache Web Server Part 1
 - Installing Apache
 - Managing the Apache Process
 - Mar 6th Class Notes – Apache Web Server Part 2
 - Setting up Virtual Hosts
 - Virtual Host Matching
 - Mar 8th Class Notes – Apache Web Server Part 3
 - Basic Authentication
 - Remember there are 5 directives to include in the .htaccess file to enable basic authentication.

Apache



- Review the following items:
 - April 5th Class Notes – Perl Part 1
 - Basic script syntax
 - Defining variables
 - Lists, Scalars
 - April 12th Class Notes – Perl Part 2
 - Arguments (@ARGV)
 - File input and output
 - The die function
 - Using System commands
 - Using system() to run commands might make things easier.
 - Assignment 3
 - Verification of groups
 - Know how to verify if a file or directory exists.

Perl



- Review the following items:

- Apr 17th Class Notes – Samba
 - Samba installation.
 - Creating Samba shares.
 - Test Samba configuration
- `/etc/samba/smb.conf`
 - Review the examples of share definitions near the end of this file.
 - Recall that “/” can be used to search in vi and less.
- Linux group permissions

Samba



"Do, or do not.

There is no try."

-Dumbledore



Good Luck!!!

