

Lesson Module Status

- Slides draft
- Properties done
- Flash cards –
- First minute quiz done
- Web calendar summary done
- Web book pages done
- Commands done
- Lab done
- Supplies () na
- Class PC's na
- Chocolates bringing
- Practice test uploaded
- CCC Confer wall paper done
- Materials uploaded done
- Backup headset charged nope
- Backup slides, CCC info, handouts on flash drive done
- Check that room headset is charged done



Email me (risimms@cabrillo.edu) a relatively current photo of your face for 3 points extra credit



Quiz

No Quiz Today I



- [] Has the phone bridge been added?
- [] Is recording on?
- [] Does the phone bridge have the mike?
- [] Share slides, putty (rsimms, simmsben, roddyduk), Chrome and Eko VM
- [] Disable spelling on PowerPoint



File Transfer and Review

Objectives	Agenda
Transfer project files to Windows	• No Quiz
and Linux systems	 Questions from last week
• Prepare for final exam	File transfer continued
	Practice Test #3
	 Project Workshop (optional)



Previous material and assignment

1. Questions?



Housekeeping



Due midnight tonight:

• Final Project submittal

Due midnight June 2:

- Test #3
- Five forum posts
- Extra credit labs

Next week is Cabrillo Finals Week

- Our final exam is Test #3 (30 points) Practice test is available on the website
- Time: 1:00PM 3:50PM

Note: Final exam will start 15 minutes earlier than our usual start time

- Date: June 2nd
- Place: Online or Room 2501



Points earned to date:

amroth: 39% (201 of 510 points) aragorn: 35% (183 of 510 points) arwen: 73% (377 of 510 points) celebrian: 69% (356 of 510 points) cirdan: 102% (524 of 510 points) denethor: 95% (486 of 510 points) dwalin: 83% (425 of 510 points) elrond: 40% (205 of 510 points) eomer: 62% (321 of 510 points) eowyn: 86% (441 of 510 points) frodo: 106% (541 of 510 points) gamling: 107% (549 of 510 points) gimli: 77% (393 of 510 points) gwaihir: 87% (448 of 510 points) legolas: 109% (557 of 510 points) orome: 102% (524 of 510 points) quickbeam: 86% (440 of 510 points) samwise: 93% (478 of 510 points) shadowfax: 89% (458 of 510 points) strider: 88% (451 of 510 points) varda: 82% (421 of 510 points)

Remaining points to earn:

Forum-4	20
Test-3	30 + 10XC
Project	60 + 30XC
Extra credit	0-90XC

Percentage	Total Points	Letter Grade	Pass/No Pass
90% or higher	504 or higher	A	Pass
80% to 89.9%	448 to 503	В	Pass
70% to 79.9%	392 to 447	С	Pass
60% to 69.9%	336 to 391	D	No pass
0% to 59.9%	0 to 335	F	No pass

Contact the instructor if you have questions



Possible Points	Requirements
25	Implementing all five tasks (6 points each): Requirements for each task: Minimum of 10 script command lines Has comments to explain what it does Has user interaction You don't have to do all of these but do at least five: Redirecting stdin (5 points) Redirecting stderr (5 points) Redirecting stderr (5 points) Use of permissions (5 points) Use of filename expansion characters (5 points) Use of relative path (5 points) Use of relative path (5 points) Use of inodes (5 points) Use of a PID (5 points) Use of links (5 points) Use of a GID or group (5 points) Use of a UID or user (5 points) Use of a signal (5 points) Use of a nenvironment variable (5 points) Use of a comment (5 points) Use of a conditional (5 points) The maximum for this section are 25 points.
5	Present your script in front of the class
Points lost	
-15	Fails to run from allscripts
-15	Other students in the class are unable to read and execute your script.
-5	For each error message displayed
Extra credit	
30	Up to three additional tasks (10 points each)

Please don't overlook this part of the grading rubric!



Please make sure you project script exists, runs without errors and can be run by other students in the class

Points lost	
-15	Fails to run from allscripts
-15	Other students in the class are unable to read and execute your script.
-5	For each error message displayed

Instructor should run ~/cis90/project/testscripts to verify



Additional Linux courses:

CIS 130 - Linux/UNIX Shell Programming

CIS 191 - Linux/UNIX System Administration

CIS 192 - Linux/UNIX Network Administration

CIS 193 - Linux/UNIX Security Administration





CIS 90 Introduction to UNIX/Linux

Provides a technical overview of the UNIX/Linux operating system, including hands-on experience with commands, files, and tools. Recommended Preparation: CS 1L or CIS 172.

Transfer Credit: CSU.

Section Days		Times	Units Instructor		Room	
72345	W	01:15PM-04:20PM	3.00	J.Griffin	2501	
&	Arr.	Arr.		J.Griffin	OL	
Castian	70045 10 0 1	Jubrid ONILINE source M	a ata una ale	he throughout the	an manhar at	

Section 72345 is a Hybrid ONLINE course. Meets weekly throughout the semester at the scheduled times with an additional 3 hr 5 min online lab per week. For details, see instructor's web page at go.cabrillo.edu/online.

If you have friends who are interested in UNIX/Linux, let them know about CIS 90 in the Fall term





CIS 191AB

UNIX/Linux Installation, Configuration and Administration

Introduces skills required to administer UNIX/Linux systems. Prerequisite: CIS 90 or equivalent.

Section Days		Times	Units	Instructor	Room
73605 T & Arr.		06:00PM-08:05PM	4.00	J.Griffin	2501
		Arr.		J.Griffin	OL
Sectio	n 73605 is a	Hybrid ONLINE course.	Meets we	ekly throughout	the semes-
ter at t	he schedule	d times with an addition	al 1 hr 40	min online lect	ure, and 4 hr
5 min	online lab p	er week. Students will be	required	to show that the	ey meet the
course	prerequisit	es. For details, see instru	ictor's w	eb page at	
go.cab	rillo.edu/on	line.			

CIS 191 is a hybrid class that will meet 2 hours a week (Tuesday evening) in the classroom and another two hour session from a lecture archive which the student can choose when to view.

Labs are also part of the class and that time can be done remotely and scheduled to the student's convenience.





CIS 192A UNIX/Linux TCP/IP Administration

Teaches building, monitoring and troubleshooting of a UNIX/Linux network infrastructure. Prerequisites: CIS 81 and CIS 90. Recommended Preparation: CIS 191A. Repeatability: May be taken 2 times.

Section Days		Times	Units	Instructor	Room	
73604 T		01:00PM-05:10PM	2.00	R.Simms	2501	
&	Arr.	Arr.		R.Simms	OL	
Section uled tin Additio Techno sites. F instruct	n 73604 is a H nes. Students nal 4 hr 5 min logy Lab. Stu or details, se tor at risimms	Hybrid ONLINE course. Mo s may attend in the classro n of arranged lab per week idents will be required to s e instructor's web page at s@cabrillo.edu.	eets 8 wee born or onl k in the Ne show that to go.cabrille	eks 10/25-12/13, ine using CCC Co etwork and System they meet the cou o.edu/online or e-	at the sched- onfer. ms urse prerequi- mail the	

CIS 192 is only for the second 8 weeks of the term

CIS 192 will hold classes in the classroom and online simultaneously. Students may attend either way.



Fall 2011 Linux Courses

	Fall 2011	Waitlisted	CIS-191AB- 73605 (73605) UNIX/Linux Inst. Confg. Admin	Main Campus	08/29/2011-12/17/2011 Lecture Tuesday 06:00PM - 08:05PM, Computer Information Labs, Room 2501 (more)	J. Griffin	0/24/3	4.00	
	Fall 2011	Waitlisted	CIS-90-72345 (72345) Intro to UNIX/Linux	Main Campus	08/29/2011-12/17/2011 Lecture Wednesday 01:15PM - 04:20PM, Computer Information Labs, Room 2501 (more)	J. Griffin	0/24/4	3.00	

	Fall O	CIS-192A-736 (73604) UNIX/Linux TCP/IP.Admin	04 Main Campus	10/25/2011-12/13/2011 Lecture Tuesday 01:00PM - 05:10PM, Computer Information Labs, Room 2501 (more)	R. Simms	11/24/0	2.00	
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- 1. CIS 191 and CIS 192 will be offered on the same day, but the 192A is only for the second 8 weeks
- 2. CIS 191 is a hybrid class that will meet 2 hours a week (Tuesday evening) in the classroom and another two hour session from a lecture archive which the student can choose when to view. Labs are also part of the class and that time can be done remotely and scheduled to the student's convenience.
- 3. 3) CIS 192 will hold classes in the classroom and online simultaneously. Students may attend either way.

If there are a few students who could not possibly make the CIS 191 two hours on campus, they can contact Jim for possible ways to make the class still work.



File Transfer



File Transfer

Downloading your Opus file to your home computer



Windows



Linux 19



File Transfer Windows Filezilla



File Transfer

Downloading your Opus file to your home computer





For Windows you can use the pscp (Putty scp) program or a file transfer utility like Filezilla

Windows



File Transfer

Downloading your Opus file to Windows using Filezilla

http://filezilla-project.org/download.php





File Transfer

Downloading your Opus file to Windows using Filezilla

🔁 sftp://simmsben@opus.cabrillo.edu - FileZilla	
Eile Edit View Iransfer Server Bookmarks Help	
Host: opus.cabrilo.edu Username: simmsben Passgord:	Port: 22 Quickconnect
Command: Is Status: Listing directory /home/cis90/simmsben Status: Calculating timezone offset of server Command: mtime "Island" Response: 1288027678 Status: Timezone offsets: Server: -25200 seconds. Local: -28800 seconds. Status: Directory listing successful	Difference: -3600 seconds.
Local site: C:\depot\	Remote site: /home/cis90/simmsben
C:	
Filename Filesize Filetype Last mod	Filename Filesize Filetype Last m.*
3	Hidden File fol 2/1/200 Hidden File fol 2/1/200 Miscellaneous File fol 9/11/200 Jacobia File fol 9/6/201 File fol 9/6/201 File fol 9/28/200 File fol 9/28/200
۲. m) ۲	e
Empty directory.	48 files and 18 directories. Total size: 407,046 bytes
Server/Local file Direction Remot	ie file
*	
Queued files Faled transfers Successful transfers (5)	
	🔒 📟 Queue: empty

Specify opus.cabrillo.edu as the host name with your Opus username, password and port 22 then click Quickconnect



File Transfer

Downloading your Opus file to Windows using Filezilla

Select local folder to download file into

Host: Opus.cabrillo.edu Username: smmsben Passigord: ••••• Command: Is Is istatus: Listing directory /home/ds90 istatus: Directory listing successful istatus: Status: Retrieving directory listing istatus: Status: Istatus: Listing directory listing istatus: Directory listing successful istatus: Directory listing istatus: Directory listing successful istatus: istatus:	•• Port: 22 Quidkoonnect	
Local site: C:\depot\os90\	Remote site: /home/dis90/simmsben	Soloct
SRecycle.Bin Config.Msi denot cis90	roddyduk salinjac sinnisčen srecklau	directory
Filename Filesize Filetype Last mo	di Filename Filesize Filetype Last mi A Hidden File fol 2/1/200 Miscellaneous File fol 9/11/200 is .mozilla File fol 9/6/201 j.gconf File fol 9/28/20 +	to download
* · · · · · · · · · · · · · · · · · · ·	4 III >	
empty directory.	No mies and to directories. Lotal size: 407,040 bytes	
		8

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File Transfer

Downloading your Opus file to Windows using Filezilla



Right-click on the Opus directory and select Download



File Transfer

Downloading your Opus file to Windows using Filezilla

Bost: opus.cabrilo.edu Upermet:::::::::::::::::::::::::::::::::::										
bost: opus.cabrillo.edu Upername: smmthen Passgord: entre: Det: 22 Quickconnect • Status: Directory lating successful Status: <		1 2 1 4 4 4 1 1 1	N. 1. 18	_	_		-			
Status: Staring download of <i>fhome/cis90/jainmaben/test01.graded</i> Command: Drectory lating successful Status: Drectory lating successful Status: remote:/home/cis90/jainmaben/test01.graded => local:C:/slepot/sis90/jainmaben/test01.graded Status: c:/slepot/sis90 => local:C:/slepot/sis90/jainmaben/test01.graded Filename Filesize Filetype Last modi Sismsben Filefolder 12/4/2010 Filename Server/Local file Direction Remote file Server/Local file Direction Remote file Server/Local file Direction Remote file Server/Local file Direction Remote file Server/Local file Connecting to sftp://simmsben/bash_logout < /home/cis90/simmsben/.bash_logout < /home/cis90/simmsben/.bash_profile < /ho	Host: opus.cabrillo.edu	Username: simmsben	Password:		Por	rt: 22	Quickconnect			
Local ste: C:\depot\cis90\smmsben\Lab2.1 [filename # Filesize Fi	Status: Starting Command: get "test Status: Directory Status: Retrievin Command: cd "/hom Status: remote:/ Status: remote:/	download of /home/cis90/simmsb to Lgraded" "C:\depot\cis90\simm \stng successful gg directory listing e/cis90/simmsben* home/cis90/simmsben/lab01.gra home/cis90/simmsben/lab01.gra	en/test01.graded nsben/test01.grad ded => local:C:\d aded => local:C:\d	d ded" lepot\cis90 depot\cis9	\simmsben \jab0 0\simmsben \tes	1.graded t01.graded				
Filename Filesize File 10/27/2 * III * * III * * III *<	Local site: C:\depot\cis90\			•	Remote site:	/home/cis9	0/simmsben/Lab2.1/filen	ame		
Filename Filesize Filetype Last modi	B→B SRecycle →B Config.1 B→B depot →B cis90	e.Bin Msi)				-2 La 9-1 La	characters b2.0 b2.1 filename			-
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1 directory 1 file. Total size: 795 bytes Server/Local file Direction I stp://simmsben@opus.cabrillo.edu Image: Stp://simmsben/bash_logout C:\depot\cis90\simmsben\bash_logout << /home/cis90/simmsben/bash_logout	🕌 simmsben		File folder 1	2/4/2010	treat5			795	File	10/27/201
Server/Local file Direction Remote file Image: stp://simmsben@opus.cabrillo.edu Image: Server/Local file Image: Server/Local file Image: Stp://simmsben@opus.cabrillo.edu Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Image: Server/Local file Server/Local file Image: Server/Local file	🕌 simmsben	10	File folder 1	,	_ treat5		.11	795	File	10/2//201
	 simmsben simmsben directory 		File folder 1	*	< treats	ze: 795 byte		795	File	10/2//201
Queued files (62) Failed transfers Successful transfers (7)	simmsben sindependent sindependent server/Local file	m	Direction	Remote	 treat5 file. Total si 	ze: 795 byte	10 15	795	File	10/2//201
	simmsben directory Server/Local file stp://simmsben@opu C:\depot\cis90\simm: Connecting to sft C:\depot\cis90\simm: Connecting to sft Connecting to sft C:\depot\cis90\simm: Connecting to sft St Connecting to sft Connecting to sft Connecting to sft Connecting to sft St Connecting to sft St Connecting to sft Connecting to sft St St Connecting to sft St Connecting to sft Connecting to sft Connecting to sft Connecting to sft St St Connecting to sft St Connecting to sft Connecting to sft St Connecting to sft St Connecting to sft St St	m s.cabrillo.edu sben\.bash_logout p://simmsben@opus.cabrillo. sben\.bash_profile p://simmsben@opus.cabrillo.	Direction Contrac	Remote /home/c	r interests	ze: 795 byte en/.bash_lo en/.bash_pr	m s gout ofile	795	File	10/2//20

And away it goes downloading every file and directory it finds in the Opus directory you selected to your local folder

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File Transfer

Downloading your Opus file to Windows using pscp (Putty scp)

http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html



Download the pscp file and place it in your windows folder



File Transfer Windows pscp



File Transfer

Downloading your Opus file to Windows using pscp (Putty scp)

pscp -r username@opus.cabrillo.edu:* .



Navigate to the local folder where you want to download your Opus file to then use the pscp command with the -r option to recursively download all the files in your home directory



File Transfer

Downloading your Opus file to Windows using pscp (Putty scp)

pscp -r username@opus.cabrillo.edu:* .

author	: 0	kB	0.0	kB/s	÷	ETA:	00:00:00	÷	100%	
Rose	: 0	kB	0.5	kB/s		ETA:	00:00:00		100%	
lomen	: 0	kB	0.9	kB/s		ETA:	00:00:00		100%	
author	: 0	kB	0.0	kB/s		ETA:	00:00:00		100%	
lone	: 0	kB	0.6	kB/s		ETA:	00:00:00		100%	
Sea	: 0	kB	0.7	kB/s		ETA:	00:00:00		100%	
author	: 0	\mathbf{kB}	0.0	kB/s		ETA:	00:00:00		100%	
larzan	: 1	\mathbf{kB}	1.1	kB/s		ETA:	00:00:00		100%	
lars	1 0	\mathbf{kB}	0.9	kB/s		ETA:	00:00:00		100%	
)akdale	1 1	kB	1.2	kB/s	ł	ETA:	00:00:00		$100 \times$	10
talian	: 0	kB	0.7	kB/s	ł	ETA:	00:00:00		100%	13
author	: 0	kB	0.0	kB/s		ETA:	00:00:00		$100 \times$	
lace	: 3	kB	3.9	kB/s		ETA:	00:00:00		100%	
ale	: 3	kB	3.3	kB/s		ETA:	00:00:00		100%	
author	: 0	kB	0.0	kB/s	ł	ETA:	00:00:00		$100 \times$	
sland	: 0	\mathbf{kB}	0.7	kB/s		ETA:	00:00:00		100%	
loon	1	\mathbf{kB}	1.3	kB/s		ETA:	00:00:00		100%	
uthor	: 0	\mathbf{kB}	0.0	kB/s		ETA:	00:00:00		100%	
pology	: 1	\mathbf{kB}	1.8	kB/s		ETA:	00:00:00		100%	
Phaedo	: 2	kB	2.1	kB/s	ł	ETA:	00:00:00		100%	
Shadow	: 0	kB	0.6	kB/s		ETA:	00:00:00		100%	
author	: 0	kB	0.0	kB/s		ETA:	00:00:00		100%	
ss	9	kB	0.9	kB/s		ETA:	00:00:00		100%	
Fox	: 0	kB	1.0	kB/s		ETA:	00:00:00		100%	



File Transfer

Downloading your Opus file to Windows using pscp (Putty scp)

pscp -r username@opus.cabrillo.edu:* .

Administrator. C. (Window	is system 52 (cmd.exe	and the second	
proposal2	2 kB	2.1 kB/s ETA: 00:00:00 100%	
manpage	10 kB	10.3 kB/s ETA: 00:00:00 100%	
better_town	1 kB	1.3 kB/s ETA: 00:00:00 100%	
file.dos	: Ø kB :	0.1 kB/s ETA: 00:00:00 100%	
nystery	1 3 kB 1	3.4 kB/s ETA: 00:00:00 100%	
fruit	1 Ø kB 1	0.1 kB/s ETA: 00:00:00 100%	
salad	: Ø kB :	0.1 kB/s ETA: 00:00:00 100%	
bigfile	10 kB	10.3 kB/s ETA: 00:00:00 100%	
.history	: Ø kB :	0.0 kB/s ETA: 00:00:00 100%	
what_am_i	: Ø kB :	0.3 kB/s ETA: 00:00:00 100%	
dogs.tar	110 kB	110.0 kB/s ETA: 00:00:00 100	χ.
smb.conf	1 9 kB 1	9.5 kB/s ETA: 00:00:00 100%	
timecal	: Ø kB :	0.5 kB/s ETA: 00:00:00 100%	1.00
test01.graded	4 kB	4.2 kB/s ETA: 00:00:00 100%	F
lab01.graded	: Ø kB :	0.4 kB/s ETA: 00:00:00 100%	
uhistory	32 kB	32.9 kB/s ETA: 00:00:00 100%	
.bash_profile	: Ø kB :	0.3 kB/s ETA: 00:00:00 100%	
.bash_history	16 kB	16.1 kB/s ETA: 00:00:00 100%	
spellk	IØ kB I	0.5 kB/s ETA: 00:00:00 100%	
.bash_logout	Ø kB	0.0 kB/s ETA: 00:00:00 100%	
scp: unable to open	directory ./Hidde	en.bak: permission denied	
c:\depot\cis90>_			



File Transfer

Downloading your Opus file to Windows using pscp (Putty scp)

administrator C:\Windows\system32\cmd.exe c:\depot\cis90>dir Volume in drive C has no label. Volume Serial Number is EE43-96D3 Directory of c:\depot\cis90 12/04/2010 04:40 PM <dir> 12/04/2010 04:40 PM <dir> 12/04/2010 04:40 PM 12/04/2010 04:48 PM 12/04/2010 04:38 PM 515 .emacs 12/04/2010 04:38 PM 12/04/2010 04:40 PM 36 history 12/04/2010 04:40 PM 36 history 12/04/2010 04:40 PM 36 history</dir></dir>	Administrator: C:\Windows\system32\cmd.exe	
12/04/2010 04:39 PM (DIR) mozilla 12/04/2010 04:39 PM 40.plan 12/04/2010 04:38 PM 82.sh_history 12/04/2010 04:48 PM 5.081 mozilla 12/04/2010 04:49 PM 6.081 minfo 12/04/2010 04:49 PM 10.576 bigfile 12/04/2010 04:39 PM 10.576 bigfile 12/04/2010 04:39 PM 200 bigshell 12/04/2010 04:39 PM 22 characters 12/04/2010 04:39 PM 22 characters 12/04/2010 04:39 PM 22 characters 12/04/2010 04:39 PM 0 cinderella 12/04/2010 04:39 PM 0 cinderella 12/04/2010 04:39 PM 0 cinderella 12/04/2010 04:40 PM 0 cinderella 12/04/2010 04:40 PM 0 cinderella	12/84/2010 84:40 PM <dir> Lab2.0 12/84/2010 84:38 PM <dir> Lab2.1 12/84/2010 84:38 PM 1.628 Lab2.1 12/84/2010 84:38 PM 1.644 letter 12/84/2010 84:38 PM 122,791 mbsc 12/84/2010 84:48 PM 759 missellaneous 12/84/2010 84:38 PM 0 myfile 12/84/2010 84:38 PM 2.074 proposal1 12/84/2010 84:39 PM 2.054 proposal2 12/84/2010 84:39 PM 2.654 proposal3 12/84/2010 84:39 PM 9.733 smb.conf 12/84/2010 84:38 PM 90 songul 12/84/2010 84:38 PM 90 songul <!--</td--><td></td></dir></dir>	
<i>Use the dir command to review what you have downloaded</i>	12/04/2010 04:40 PM 4,276 test01.graded 12/04/2010 04:38 PM 250 text.err 12/04/2010 04:38 PM 231 text.fxd 12/04/2010 04:38 PM 1,484 treat1 12/04/2010 04:38 PM 1,484 treat1 12/04/2010 04:38 PM 509 uhistory 12/04/2010 04:40 PM 33,699 uhistory 12/04/2010 04:40 PM 352 what_am_i 48 File(s) 407,046 bytes 19 Dir(s) 43,865,870,336 bytes free c:\depot\cis90>_	- 11



File Transfer

Downloading your Opus file to Windows using pscp (Putty scp)

More example **pscp** commands

c:\depot\bin>pscp -r simmsben@opus.cabrillo.edu:/home/cis90/answers/* .
simmsben@opus.cabrillo.edu's password:

lab04	0 kB	0.5 kB/s	ETA: 00:00:00	100%
lab10	1 kB	1.6 kB/s	ETA: 00:00:00	100%
lab07	10 kB	11.0 kB/s	ETA: 00:00:00	100%
lab05	0 kB	0.8 kB/s	ETA: 00:00:00	100%
lab09	2 kB	2.8 kB/s	ETA: 00:00:00	100%
lab06	4 kB	4.4 kB/s	ETA: 00:00:00	100%
lab03	32 kB	32.9 kB/s	ETA: 00:00:00	100%
lab02	1 kB	1.1 kB/s	ETA: 00:00:00	100%
lab01	0 kB	0.2 kB/s	ETA: 00:00:00	100%
test01	1 kB	1.2 kB/s	ETA: 00:00:00	100%
test02	1 kB	1.4 kB/s	ETA: 00:00:00	100%

c:\depot\bin>



File Transfer

Downloading your Opus file to Windows using pscp (Putty scp)

More example **pscp** commands

c:\depot>pscp -r simmsben@opus.cabrillo.edu:/home/cis90/bin/riddle* . simmsben@opus.cabrillo.edu's password: riddle 0 kB 0.9 kB/s ETA: 00:00:00 100% riddle2 0 kB 0.9 kB/s ETA: 00:00:00 100% riddle1 0 kB 0.9 kB/s ETA: 00:00:00 100% c:\depot>pscp -r simmsben@opus.cabrillo.edu:/home/cis90/bin/all* . simmsben@opus.cabrillo.edu's password: | 4 bp | $| 4 \text{ cm}/\alpha |$ $| \text{cm}/\alpha |$ | 100%allegrinte

alistipts	ᆝᇽᇨᆈᆝ	T.J KD/S	EIA. 00.00.00	1 TOO.2
allscripts.v1	3 kB	4.0 kB/s	ETA: 00:00:00	100%
allscripts.v2	4 kB	4.3 kB/s	ETA: 00:00:00	100%



File Transfer Linux or Mac SCP



File Transfer

Downloading your Opus files to Linux or Mac using scp

scp -r simmsben@opus.cabrillo.edu:. . To download all files

😣 🛇 🔗 rsimms@eko: ~/simm	sben/bin				
<u>File Edit View Terminal Help</u>					
rsimms@eko:~\$ mkdir simmsben rsimms@eko:~\$ cd simmsben					
rsimms@eko:~/simmsben\$ scp -r s simmsben@opus.cabrillo.edu's pa	simmsben@opus.cabrill assword:	lo.edu:			
kate2	100%	6	0.0KB/s	00:01	
.jin	100%	Θ	0.0KB/s	00:00	
hurley	100%	0	0.0KB/s	00:00	
sawyer	100%	8	0.0KB/s	00:00	
katherine	100%	6	0.0KB/s	00:00	
characters	100%	34	0.0KB/s	00:00	
.emacs	100%	515	0.5KB/s	00:00	
mydate	100%	40	0.0KB/s	00:00	
lab06.graded	100%	5721	5.6KB/s	00:00	
mbox	100%	121KB	120.8KB/s	00:01	
scp: ./newer: Permission denied	1				
.1976.egg	100%	734	0.7KB/s	00:00	
lab02.graded	100%	960	0.9KB/s	00:00	
lab01.graded	100%	141	0.1KB/s	00:00	
lab04.graded	100%	512	0.5KB/s	00:00	
test01.graded	100%	972	1.0KB/s	00:00	
labx2	100%	1121	1.1KB/s	00:00	
labx2.graded	100%	1579	1.5KB/s	00:00	
letter	100%	1059	1.0KB/s	00:00	
WC	100%	Θ	0.0KB/s	00:00	



File Transfer

Downloading your Opus files to Linux or Mac using scp

Is -a To review what was downloaded

<pre>File Edit View Terminal He rsimms@eko:~\$ ls -a . Downloadsesd_auth .bash_history examples.d .bashrc .gconf benji .gconfd .cache .gnome2 codenames .gnome2_pr .config .gtk-bookm .dbus .gvfs Desktop honor Documents .ICEauthor dogs Lassle rsimms@eko:~\$</pre>	elp desktop .local mbox desktop .mozilla Music .nautilus Pictures .profile rivate Public narks .pulse .pulse-cookie pups rity .recently-used.xbu shuffled	<pre>simmsben .ssh Toto .update-notifier .vboxclient-display.pid .vboxclient-seamless.pid Videos .viminfo .xsession-errors .xsession-errors.old el</pre>
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File Transfer

Downloading your Opus files to Linux or Mac using scp

More examples of using scp on your local Mac or Linux system:

scp -r simmsben@opus.cabrillo.edu:* .

Recursive copy of remote home directory to current local directory (doesn't copy home directory hidden files)

scp -r simmsben@opus.cabrillo.edu:. .

Recursive copy of remote home directory to current local directory (includes hidden files in home directory)

scp simmsben@opus.cabrillo.edu:simmsben.tar .

Copies archive file in remote home directory to current local directory

scp -r simmsben@opus.cabrillo.edu:/home/cis90ol/answers answers/

Recursive copy of class answers directory to local directory named answers (which must be created first)



Archives



Archiving tar command (on Opus)

Use wc to count the number of files in the three directories

/home/cis90 \$ find bin/ answers/ roddyduk/ | wc -l
263
/home/cis90 \$

The bin directory has allscripts, riddles and other files used in class. The answers directory has answers for each lab. Your home directory has all the files you made during the course.

Cabrillo College	CIS 90 - Lesson 15	
	Archiving tar command (on Opus)	
verbose create	Name of tarball to create	directories to backup
<pre>/home/cis90 \$ tar cvf /hom bin/ bin/submit bin/submit.bak bin/exam bin/allscripts</pre>	e/cis90/roddyduk/roddyduk.ta	r bin/ answers/ roddyduk/
<pre>< snipped > tar: roddyduk/roddyduk.tar roddyduk/program roddyduk/exitscript roddyduk/red-12-09-08 roddyduk/red-12-09-2008 roddyduk/blue-12-09-2008 /home/cis90 \$</pre>	: file is the archive; not dur	nped

Backup all these files into a single tarball



Use the t option (table of contents) to list the contents of the tarball which are then piped to wc to count



Archiving tar command (on Opus)

Archive everything in your home directory (including all sub directories) plus the class bin and answer directories into one tarball.

cd /home/cis90/



Archiving tar command (on home Linux computer)

extract

[cis90@frodo opus-files]# tar xvf roddyduk.tar bin/ bin/submit bin/submit.bak Extract the tarball

< snipped >

roddyduk/program roddyduk/exitscript roddyduk/red-12-09-08 roddyduk/red-12-09-2008 roddyduk/blue-12-09-2008 [cis90@frodo opus-files]#



Archiving tar command (on home Linux computer)

[cis90@frodo opus-files]# Is -I
total 1044
drwxr-xr-x 2 201 103 4096 Nov 28 17:41 answers
drwxr-xr-- 2 201 103 4096 Nov 30 23:25 bin
drwxr-xr-x 28 1156 103 4096 Dec 10 13:50 roddyduk
-rw-r--r-- 1 root root 1034240 Dec 8 23:43 roddyduk.tar
[cis90@frodo opus-files]#

The bin, answer and home directories have been recreated



Archiving

tar command (on home Linux computer)

[cis90@frodo opus-files]# cd roddyduk/bin [cis90@frodo bin]# ls app banner datecal hi I myscript.bak treat5 tryme backups benscript enlightenment home myscript myscript.v1 treed zoom [cis90@frodo bin]# myscript -bash: myscript: command not found [cis90@frodo bin]# ./myscript

Duke's CIS 90 Final Project

- 1) Color
- 2) My Find Command
- 3) More practice
- 4) Duke's friend made this one Thank You
- 5) Task 5
- 6) Exit

Enter Your Choice:

Note we have a different path on this system so may have to specify a relative path to script file to run



Final Exam



Final Exam The CIS 90 Final Exam is Test #3

- The Final Exam is June 2 1:00 to 3:50PM
- The final exam will be Test #3 (worth 30 points + 10 points extra credit)
 - > Open book, open notes, open computer.
 - During the test you must work alone and not ask or give assistance to others.
 - If you need more time, you may take the exam home and email it to me by midnight.



Final Exam The CIS 90 Final Exam is Test #3

• A Practice Test 3 is available on the web site

- You may work with others and use the forum to discuss questions and answers on the practice test prior to the final exam.
- Just like the real test, the first 15 questions correlate to the 15 lessons we've covered in this class.
- Just like the real test, there are five extra credit questions at the end taken from the website Flashcards.



Project Presentations



Wrap up



New commands: tar

Backup and restore files

New Files and Directories:



Next Class is the Final Exam

Test #3 Five Posts Lab X1 (extra credit) Lab X2 (extra credit)

Cabrillo College

Project Workshop (optional)



Backup



Archiving tar command (on Opus)

Next, compress the archive with gzip

/home/cis90/roddyduk \$ Is -I roddyduk.tar -rw-rw---- 1 roddyduk cis90 1034240 Dec 10 13:50 roddyduk.tar /home/cis90/roddyduk \$

/home/cis90/roddyduk \$ gzip roddyduk.tar /home/cis90/roddyduk \$ Is -I roddyduk.tar* -rw-rw---- 1 roddyduk cis90 168996 Dec 10 13:50 roddyduk.tar.gz /home/cis90/roddyduk \$

Note: gzip renames the tarball by adding the .gz suffix