Leopard Server: Activities

Activity 1: Power on Client/Server

- 1) Make sure the cross over Ethernet cable is plugged into the client and the server.
- 2) Power on and log into both the client and the server.
 - Server:
 - i. Username: **admin**
 - ii. Password: **apple**
 - Client:
 - i. Username: **admin**
 - ii. Password: _____

Activity 2: Server Admin

- 1) Launch Server Admin on the server.
- 2) Click on the down arrow beside **pie-osx.rps.loc** on the left side of **Server Admin**.
- 3) Notice the services that show up in the menu; AFP, DHCP, DNS, and Open Directory.
- 4) Click on **pie-osx.rps.loc** on the left side of **Server Admin**.
- 5) Select the **Settings** button at the top of the **Server Admin** window.
- 6) Select the **Services** tab.
- 7) Notice AFP, DHCP, DNS, and Open Directory are already selected as services.

Activity 3: File Sharing Settings

- 1) In Server Admin, select pie-osx.rps.loc, select the File Sharing button.
- 2) Click on the button named **Volumes** and make sure **OSX** is highlighted.



User or Group	Used (KB)	Free (KB)	Limit (KE

3) Click on the **Quotas** button in the middle of the window, select **Enable quotas on this volume**, click **Save**.

is volume	ermissions Q	uotas		
		Used (KB)	Free (KB)	Limit (KB

4) With the OSX volume still selected, click on the **Browse** button at the top of the window.

Volumes Share Points	List Browse	k	New Folder Share
OSX /Volumes/OSX	Applications	— <u> </u>	
	Backup		

- 5) Click on the **Users** folder point.
- 6) Select the Share Point tab, check the box to Enable Automount.

Share Point Permissions
Enable Automount Edit
Enable Spotlight searching
Enable as Time Machine backup destination
Protocol Options

- 7) The **"Configure the automount to the selected share point"** window will open. Select **User home folders** and click **Ok**.
- 8) You will be asked to authenticate as the Directory Administrator. Enter the following:
 - a. Username: diradmin
 - b. Password: **apple1**

	Authenticate
Enter an adm the directory	inistrator's name and password for domain:
Domain:	/LDAPv3/127.0.0.1
Name:	diradmin
Password:	•••••
	Cancel OK

- 9) Uncheck Enable Spotlight Searching.
- 10)Click **Save** in the File Sharing window.

Activity 4: Bind Client to Server

1) Launch **Directory Utility** on the Client computer. The application is located within **Macintosh HD/Applications/Utilities**.

< >		Q	
DEVICES	Name	Date Modified	Sizo
iDisk	Activity Monitor	Sep 28, 2007, 11:51 PM	1.7 ME
Macintosh HD	AirPort Utility	Aug 15, 2007, 2:10 PM	4.2 ME
- Machinosh mo	Audio MIDI Setup	Sep 23, 2007, 11:53 PM	2.1 ME
/ SHARED	Bluetooth File Exchange	Oct 10, 2007, 12:10 AM	412 KI
@ All	Boot Camp Assistant	Sep 24, 2007, 12:57 AM	12.4 M
0	🗶 ColorSync Utility	Sep 24, 2007, 12:59 AM	2.6 ME
/ PLACES	Console	Jul 27, 2007, 7:30 PM	1.3 M
🧱 Desktop	Ø DigitalColor Meter	Sep 24, 2007, 12:43 AM	380 KI
👚 admin	M Directory	Aug 14, 2007, 4:41 PM	58.3 M
Applications	Directory Utility	Oct 10, 2007, 12:04 AM	5.5 M
Documents	Disk Utility Disk Utility	Sep 27, 2007, 9:48 PM	15.8 M
	f Grab	Sep 23, 2007, 11:50 PM	440 K
SEARCH FOR	🔘 Grapher	Jun 19, 2007, 5:19 PM	8.2 M
	▶ 🚞 Java	Dec 7, 2007, 8:46 AM	-
	A Keychain Access	Oct 4, 2007, 1:16 AM	2.9 M
	MacBook Pro EFI Firmware Update	Dec 10, 2007, 10:35 AM	4.9 M
	Kan Migration Assistant	Sep 29, 2007, 12:13 AM	2.9 M
	Network Utility	Sep 24, 2007, 12:03 AM	2.4 M
	ODBC Administrator	Jul 5, 2007, 2:20 PM	1.2 M
	Podcast Capture	Sep 29, 2007, 2:33 AM	18.4 M
	K RAID Utility	Oct 10, 2007, 12:00 AM	3.1 M
	🚖 System Profiler	Sep 24, 2007, 12:34 AM	1.6 M
	Terminal	Sep 25, 2007, 7:21 PM	24.8 M
	VoiceOver Utility	Oct 4, 2007, 10:52 PM	924 KI
	X X11	Sep 24, 2007, 12:21 AM	124 K
	C	************	

- If necessary, click the **lock** to enter an admin username and password to make changes to the Directory Utility program, otherwise skip to step four.
 - a. Username: **admin**b. Password:

00	Directory L	Jtility
	No Directory Serve	ers Configured
	No Directory Serve	conigured
+ -	-	
~	h-	
Click the lock t	o make changes.	Show Advanced Settings
Director passw	ory Utility requires that yo	u type your
	ord.	

3) Click on the **plus** sign on the window.

Cancel OK

ŧ:

	Directory Uti	lity
	No Directory Server	s Configured
+ -		
Click the lo	k to prevent further changes.	Show Advanced Settings

Password:

▶ Details

0

4) Enter the server name the computer will be bound to, then click **Ok**.a. Server Name: **pie-osx.rps.loc**

Add a new directory of type	Open Directory	•
Server Name or IP Address:	pie-osx.rps.loc	
	Encrypt using SSL	
		Cancel OK

5) **Re-lock** the lock and **quit** out of Directory Utility.

00	Directory Utility
pie-osx.rps.loc Open Directory Server	This server is responding normally.
+ -	
Click the lock to make changes	s. (?) (Show Advanced Settings)

Activity 5: Workgroup Manager User/Group Administration

- 1) Launch **Workgroup Manager** from the dock on the server. When asked to login type in the following:
 - a. Address: pie-osx.rps.loc
 - b. User Name: admin
 - c. Password: **apple**
- 2) Once you are logged in, click on the **lock** in the upper right hand corner of the window. This will authenticate you to the directory administrator account.

00				Work	group M	lanager: Loca	al			\bigcirc
Server Admin	Accounts	Preferences	Hew User	O Delete	Befresh	New Window	Search			
€+ Viewing dire	ctory: /LDA	Pv3/127.0.0.1.	Not authent	icated						
1 1			Basi	c Privi	leges Ad	lvanced Group	s Home	Mail Print Quota Info	Windows	

- 3) When asked to **Authenticate to directory /LDAPv3/127.0.0.1** type in the following and click **Authenticate**.
 - a. Username: diradmin
 - b. Password: **apple1**
- 4) Highlight the user named **Pierce Admin** on the left side of the window.

1 A C		Basic Privile	ges Advanced Groups Home Mail	Print Quota Info Wind
Q- Name Contain	is	Name:	Pierce Admin	
User Name	A UID	User ID:	1033	
🌲 Directory Admir		Short Names:	pierceadmin	
💄 Pierce Admin	1033		prerectuarini	
Staff1	1026			
Student1	1028			
Student2	1029			
Student3	1030	Password:	••••••• Verify: ••	
Student4	1031			
Student5	1032			
Studentk	1027	User can	administer this server	
			access account	k

5) On the tab labeled **Basic**, check the box to **Administer this Server**.

Basic Privile	ges Advanced Groups	Home M	ail Print Quota	Info W	indows
Name:	Pierce Admin				
User ID:	1033				
Short Names:	pierceadmin				
Password:	•••••	Verify:	•••••		
User can	administer this ser	ver			

- 6) Click on the **Privileges** tab.
- 7) At the top of the window, change the pull down menu for **Administration Capabilities** to **Limited**. Then click on the **Plus** sign off to the right.

Basic Privileges	Advanced Groups H	Home Mail Print Quo	ota Info Windows	
dministration capab	lities: Limited			
ser can administer:		\sim		
lame 🦷	Sho	ort Name		+
				-

 This will bring up a Users and Groups window. Click on the Groups button, then drag over the GradeK and Pie-Staff group into the User can Administer window.

0	00		Workgroup Manager:	Local	\subset		-
Serv	er Admin Accounts	Preferences	New User Delete Refresh New Wir			€ + Directory: /LDAPv3	/177.0.0.1
0-/	Authenticated as diradr	nin to director	ry: /LDAPv3/127.0.0.1				
	1 # 0	æ	Basic Privileges Advanced	Groups Home Mail Print	Quota Info Windows	Q- Name Contain	s
Q	Name Contains		Administration capabilities:	imited		Name	GID
	User Name	A UID	User can administer:			com.apple.limite	106
	Directory Administ.					Grade1	1028
	Pierce Admin	1033	Name	Short Name	+	Grade2	1029
÷	Staff1	1033	GradeK	gradek	-	Grade3	1030
÷	Student1	1028	Pie-Staff	piestaff		Grade4	1031
÷	Student2	1028				Grade5	1032
÷	Student2 Student3	1029				GradeK	1027
÷	Student4	1030				Jopen Directory	80
÷	Student5	1031				Open Directory	20
-	Studentk	1032			•	Pie-Admin	1033
-	Studentk	1027	Allowed Operations for selected	user or group:	* /	Pie-Staff	1026
			Manage user passwords		/		
			Edit managed preferences				
			Edit user information				
			Edit group membership				
			Card Broad memoersmith				
			Presets: None	•	Revert Save	— — — — — — — — — — — — — — — — — — —	24.1

9) Under the User can Administer section highlight the GradeK group. Change the Allowed Operations for the selected user or group to only allow them to edit managed preferences.

Administration capabilitie Jser can administer:	s: Limited		
Name	Short Name		4
GradeK	gradek		
Allowed Operatic s for se	lected user or group:		
 Manage user password Edit managed preferen Edit user information 			

10)Under the **User can Administer** section highlight the **Pie-Staff** group. Change the **Allowed Operations for the selected user or group** to only allow them to **Edit managed preferences** and **Edit user information**.

		+
gradek		
piestaff		
ed user or group:		
	Short Name gradek piestaff	gradek piestaff

- 11)Click the **Save** button and **quit** out of Workgroup Manager.
- 12) Launch **Workgroup Manager** again from the dock.
- 13) When asked to login, type in the following information and click Connect. Address: **pie-osx.rps.loc**
 - Username: pierceadmin
 - Password: pierceadmin
- 14)Notice that we don't have to authenticate as the directory administrator.

00	Workgroup Manager: Local
Server Admin Accounts Pr	eferences New User Delete Refresh New Window Search
€ + Authenticated as pierceadm	in to directory: /LDAPv3/127.0.0.1
	Basic Privileges Advanced Groups Home Mail Print Quota Info Windows
Q- Name Contains	Name:
User Name 🔺 U	D User ID:
Directory Administ 1	000 Short Names:
Pierce Admin 1	033
L Staff1 1	026

- 15)Select the user named **Staff1**. Go to the **Info** tab for that user. 16)Type in the following information:
 - a. Address: 1993 Acorn Drive
 - b. City: **Bakersville**
 - c. State: IA

d. Zip: 66003

Basic	Privileges	Advanced	Groups	Home	Mail	Print Quota	Info	Windows
Nam	e: First				Staff1		_	
Addres	s: 1993	Acorn Dr	rive					
	Baker	rsville						
	IA				66003		ountry	
Phon	e:							

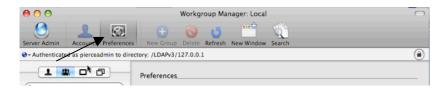
- 17)Click Save.
- 18)Select the user named **StudentK**. Stay on the **Info** tab.
- 19)Try adding an address in for this user and click **Save**. Notice that WGM does not save the information that you typed in.
- 20) Quit Workgroup Manager.
- 21) Launch Workgroup Manager.
- 22)Login as the following:
 - a. Address: pie-osx.rps.loc
 - b. Username: **admin**
 - c. Password: apple
- 23)Click on the **lock** in the upper right hand corner to authenticate as the directory administrator.
 - a. Username: **diradmin**
 - b. Password: apple1

24)Under Accounts and Users, select Pierce Admin, Staff1, Student1, Student2, Student3, Student4, Student5, and StudentK.

- 25)Click on the Home tab.
- 26)Select afp://pie-osx.rps.loc/Users and under Disk Quota type in 350MB.
- 27)Click Save.
- 28) Quit out of Workgroup Manager.

Activity 6: Syncing Mobile Accounts

- 1) Launch Workgroup Manager.
- 2) Login as the following:
 - a. Address: pie-osx.rps.loc
 - b. Username: **admin**
 - c. Password: **apple**
- 3) Click on the **lock** in the upper right hand corner to authenticate as the directory administrator.
 - a. Username: **diradmin**
 - b. Password: apple1
- 4) Make sure you are in the **Preferences** section of the program.



5) Click on the **Groups** button, then select the **Pie-Staff** group.

Q	Name Contains	ð
	Group Name	A GID
血	Grade1	1028
血	Grade2	1029
血	Grade3	1030
血	Grade4	1031
盘	Grade5	1032
盘	GradeK	1027
盘	Pie-Admin	1033
血	Pie-Staff	1026

6) On the right select the Preference named **Mobility**.



 Under the Account Creation/Creation tabs, select Always, check Create mobile account when user logs in to network account, and leave the other default settings.



 Under the Rules/Login & Logout Sync tabs, select Always and leave the default settings.

	ogin & Logout Sync	Background Sync	Options
Manage:	O Never	Once	 Always
S	ettings apply to mobile a	accounts on Mac OS X v1	10.4 or later.
🗹 Sync at log	in and logout:		
Folder			
~/Library			
	s/Microsoft User Dat	a	
	s/Microsoft User Dat	a	
	s/Microsoft User Dat	a	
~/Documents			
~/Documents	s/Microsoft User Dat		
~/Documents		ollowing	
~/Documents	at match any of the f	ollowing	
~/Documents Skip items tha Match	at match any of the fi	ollowing	
~/Document: Skip items tha Match Full Path	at match any of the fo String, file, or fo \$ ~/.SymAVQSFi	ollowing	

9) Under the Rules/Background Sync tabs, select Always. Remove the ~ from the top window and replace it with Desktop and Documents. This way only the user's desktop and documents folders will sync to the server. Typically a user's Pictures, Movies, and Music folder are too large for the server.

LOC	gin & Logout Sync	Background Sync	Options -
Manage:	O Never	Once	Always
Sett	tings apply to mobile a	ccounts on Mac OS X v1	0.4 or later.
Sync in the b	ackground:		
older			
~/Desktop			
~/Desktop ~/Documents			
~/Documents	match any of the fc	bllowing:	k
~/Documents	match any of the fc	-	<u>k</u>
~/Documents		older	×
~/Documents kip items that Match	String, file, or fo	older	*
~/Documents kip items that Match Full Path	String, file, or fo 2 ~/.SymAVQSFil	older	*

10)Under the **Rules/Options** tabs, select **Always**. Slide the bar to **8 hours** and set the **Sync in the Background** to **Manually**. Make **sure Show status in menu bar** is selected.

Manage: ONever OOnce OA Settings apply to mobile accounts on Mac OS X v10.4 or later. Sync in the background: Manually OEvery	Always r.
Sync in the background:	r.
Manually Every	_
	Ŷ
5 minutes 8 M	hours

- 11)Click the **Apply** Now button at the bottom of the WGM window.
- 12) Launch Server Admin on the server.
- 13)Select **pie-osx.rps.loc** on the left.
- 14)Select the **Settings** button at the top of the window.
- 15)Under the **General** tab, make sure you select **Server Side File Tracking for Mobile Home Sync** and click **Save**.



- 16)On the client machine, log out of the Administrator account.
- 17) At the login window select **Other**, then login as the staff member.
 - a. Username: **staff1**
 - b. Password: **staff1**
- 18) When asked to Create a mobile account with a portable home directory, select Create Now.



- 19) The files will start syncing down to the computer. Depending on the file sizes on the server and network speeds, this can go fast or slow.
- 20)Once you are logged in, create a few folders on the desktop.
- 21) From the Sync menu select Sync Home Now.



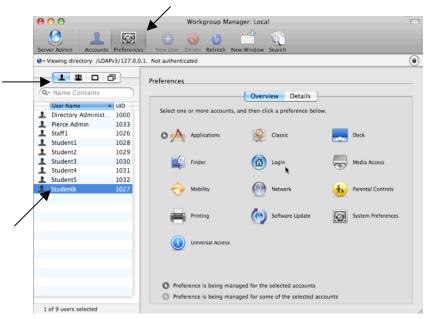
22)The files will start syncing to the server. If there is a conflict the user would be prompted to choose the files to keep.

00	Home Sync Status
	Finishing
ի Կեմ	Stop
	Sync complete.

*Note about Syncing Mobile Homes with Disk Quotas: Only those files that are synced with the server count against the user's Disk Quota. Also, if the user saves to another share point on the server, that will also count against the user's total Disk Quota. User's Home + User's Shared = Disk Quota on Server

Activity 7: Non-Syncing Mobile Accounts

1) In **Workgroup Manager**, select the **Preferences** section and select the user named **StudentK** from the **Users** list.



- 2) Select the **Mobility** Preference.
- 3) Under the Account Creation/Creation tabs select Always and check the Create mobile account when user logs in to network account.



4) Under the **Rules/Login & Logout Sync** tab select **Always**. Remove the option to **Sync at login and logout**.

Log	in & Logout Sync	Background Sync	Options
Manage:	O Never	Once	Always
Sett	ings apply to mobile a	ccounts on Mac OS X v1	0.4 or later.
Sync at login	and logout:		
lder			
/Library			
ip items that	match any of the fo	llowing:	
tip items that Natch	match any of the fo		
•		lder	
atch	String, file, or fo	lder	0
atch JII Path	String, file, or fo ~/.SymAVQSFil	lder	ervices +

5) Under the **Rules/Background Sync** tabs select **Always**. Remove the ~ from the **Sync in the background** section. Under **Skip items that match any of the following** and add the **Full Path** = ~.

_	ogin & Logout S	ync Background Syn	C Options
Manage:	O Nev	ver Once	• Alway
S	ettings apply to me	obile accounts on Mac OS X	v10.4 or later.
Sync in the	background:		
Folder			
		*	
		and path name	(tilde and slash) be s indicate that the ite iser's Home director
Skip items tha	at match any of t		
Skip items tha _{Match}	at match any of t String, file	the following:	
	String, file	the following:	a
Match	String, file	the following: , or folder eents/Microsoft User Dat	a
Match Full Path	String, file ~/Docum ~/Library	the following: , or folder eents/Microsoft User Dat	a

6) Click on the **Rules/Options** tabs select **Always**. Change the **Sync in the background** time to **8 hours** and set to sync **Manually**. Uncheck the box to **Show status in menu bar**. Click **Apply Now**.

Login	& Logout Sync	Background Sync	Options
Manage:	O Never	Once	💽 Alway
Setting	is apply to mobile a	ccounts on Mac OS X v	10.4 or later.
Sync in the ba		Iccounts on Mac OS X V.	10.4 or later.
	ackground:	ecounts on Mac OS X V.	
Sync in the ba	ackground: y OEvery	inutes	8 hours

- 7) On the client machine, go back to the login window.
- 8) Select **Other**.
- 9) Login as the following account.
 - a. Username: **studentk**
 - b. Password: **studentk**
- 10)When asked to Create a mobile account with a portable home directory, select Create Now.

	Create a mobile account with a portable home directory?	
"Leľ	A mobile account with a portable home directory provides a copy of your network account and a synced copy of your network home that may be used when a computer is disconnected from the network.	/
	Don't ask me again	
	Cancel Don't Create O	

- 11)The mobile account will now be added to the computer. Notice the sync menu isn't on the menu bar.
- 12) Launch **System Preferences**. Go to the **Accounts** panel.
- 13)Select the Settings button under Mobile Account.

0 0	Accounts
▲ ► Show All	٩
My Account	Password Login Items
Studentk Managed, Mobile	
Other Accounts Administrator	Change Password
Admin	
Managed, Mobile	User Name: Studentk
Guest Account Sharing only	.Mac User Name: Set
	Mobile Account: Settings
	Address Book Card: Open
Login Options	Allow user to administer this computer
Click the lock to make of	changes. (?)
	0

14)From the Mobile Account window, select **Sync Now**.

Sync:	Man	ually	Sync Now
	√ at	login	
	🗹 at	logout	
0	Home	folder	
		elected folders:	
	Sync	Folder	
		Desktop	0
		Documents	
		Downloads	
		Clbrary	
		Movies	
		Music	U
		Pictures	
		Public	*
		Autor way for	na fard i fare i
- ch		tus in menu bar	Cancel OK

15)You will be notified that there is nothing to sync. Click **Ok**.



16)Log out of the **Studentk** account.

Activity 8: Network Homes

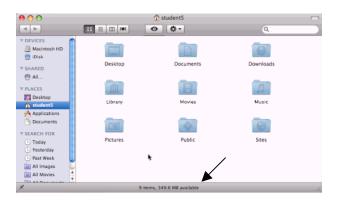
1) Launch **Workgroup Manager**, notice it defaults to **Accounts** and select **Users**.

00	Workgroup Manager: Local	
	🕒 💿 👩 🛗 🏹	
Server Admin Accounts Preferences	New User Delete Refresh New Window Search	
€ + Authenticated as diradmin to director	y: /LDAPv3/127.0.0.1	
	Basic Privileges Advanced Groups Home Mail Print Quota Info Windows	
Q- Name Contains	Name: Student5	
User Name 🔺 UID	User ID: 1032	

2) Select **Student5** and click on the **Home** tab.

00	Workgroup Manager: Local	\bigcirc
Server Admin Accounts Preferences	New User Delete Refresh New Window Search	
↔ Authenticated as diradmin to director	y: /LDAPv3/127.0.0.1	۲
Q- Name Contains	Basic Privileges Advanced Groups Hyme Mail Print Quota Info Windows - Home URL: afp://pie-osx.rps.loc/Users/student5	
User Name 🔺 UID	Full Path: /Network/Servers/pie-osx.rps.loc/Users/student5	
Lirectory Administ 1000	Where	
Pierce Admin 1033	(None)	
L Staff1 1026	d afp://pie-osx.rps.loc/Users	
Student1 1028		
Student2 1029		
L Student3 1030		
L Student4 1031		
1032 Student5		
L Studentk 1027		
	+ 8 - /	
	Create Home Now Disk Quota: 350 MB	•
	Presets: None Revert Sa	ave
1 of 9 users selected		11

- 3) Notice that the user's home directory is set for afp://pie-osx.rps.loc/Users. This share point shows up in the window because it was setup as an automount in Server Admin's File Sharing window. Also, notice that the user's home directory as a Disk Quota of 350MB.
- 4) On the client login, select **Other** as the following user.
 - a. Username: student5
 - b. Password: student5
- 5) When you get to the desktop notice the finder window that opens. This will tell the user of a Network Home account, how much space they have left on the server.



- 6) Open the **Macintosh HD/Users** folder.
- 7) Notice you have user accounts for the staff1 and studentk account (because they were mobile accounts) but not student5.

00		Users		
< >		• •	٩	
V DEVICES Macintosh HD Macintosh Statemats Applications Documents V SEARCH FOR Orday Yesterday Yest Week All Movies All Movies	admin studentk	Shared	staff1	
×	4 iter	ns, 83.34 GB available		

8) Click on the **student5** account from the sidebar.

00		Student5	
< >		•	Q
▼ DEVICES			
🕒 iDisk	Desktop	Documents	Downloads
▼ SHARED @ All	_	_	_
▼ PLACES	m	B	53
Desktop	Library	Movies	Music
Applications	Prest		0
▼ SEARCH FOR	Pictures	Public	Sites
Today Yesterday	Pictures	Public	Sites
🕒 Past Week			
All Movies			
×	9 it(ems, 349.6 MB available	

9) At the top of the finder window **control click** on **student5**.

0 0		🙆 student5	C
DEVICES Macintosh HD Disk SHARED	Desktop	Visers pie-osx.rps.loc Servers Network Macintosh HD TECH-KUNES-MBPRO	Q Downloads
 All PLACES Desktop studentS 	Library	Movies	Music
Applications Documents SEARCH FOR	61	•	0
 Today Yesterday Past Week 	Pictures	Public	Sites
All Images All Movies) items, 349.6 MB available	

- 10)Notice the home directory for this user is actually in the folder location pieosx.rps.loc/Users rather than being on the hard drive.
- 11)Log out of the server account on the client computer.

Note: If the server goes down, slows down, runs out of disk space, etc, these network homes will be affected. The user account does not stay on the computer when the user logs out.

Activity 9: Preference Management via Preference Overview

1) In Workgroup Manager, select the group Grade5 and click on the **Preferences** button.

Managing Applications:

- 2) Select the **Applications** Preference.
- 3) Select Always.
- 4) Select the **Applications/Folders**.
- 5) Under **Disallow applications within these folders**, select /**Applications/Utilities**.
- 6) Under Allow applications within these folders, select Dashboard, iTunes and Safari.
- 7) Click **Apply Now**.
- 8) Click on the **Widgets** tab.
- 9) Remove all **Dashboard Widgets** except for **Weather** and **Unit Converter**.
- 10)Click Apply Now then Done.

Managing Dock Preferences:

- 11)Click on **Dock Preferences**.
- 12)Select Always.
- 13)Remove Mail, iChat and Address Book from the dock. Remove the Merge with User's Dock option, and add the Documents folder.
- 14)Click **Apply Now**.
- 15)Click the **Dock Display** tab.
- 16)Select Always.
- 17)Set the **Position on Screen** to the **Left**.
- 18) Click **Apply Now** then **Done**.

Managing System Preferences:

- 19)Click on **System Preferences**.
- 20)Select Always.
- 21)Select Show None.
- 22) Then check **Displays** and **Sound**.
- 23) Click **Apply Now** then **Done**.
- 24)On the client login as student5.
 - a. Username: student5
 - b. Password: student5
- 25)Notice the settings you applied above now apply to this client computer.

Activity 10: Preference Management via Importing Individual Preferences

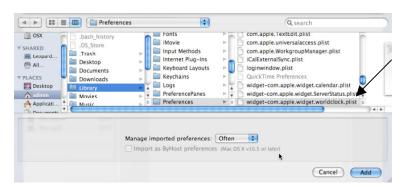
Widget Management:

- 1) On the server, launch **Dashboard**.
- 2) Configure the **Clock** widget to point to **Dallas** instead of Cupertino.
- 3) Click **Done** and out of **Dashboard**.
- 4) On the server go to Workgroup Manager:
 - a. Address: pie-osx.rps.loc
 - b. Username: **admin**
 - c. Password: **apple**
- 5) Make sure you are authenticated to the directory.
 - a. Username: **diradmin**
 - b. Password: apple1
- 6) Select the **Groups**, then click on the **Preferences** button.

- 0 Workgroup Manager: Local 0 erver Ad - Authenticated as diradmin to directory: /LDAPv3/127.0.0.1 Preferences Q- Name Contai Overview Details Group N CID Select one or more accounts, and then click a preference below. tt Gradel 1025 th Grade2 1026
- 7) Highlight the **Grade4** group on the left.
- 8) Select the **Details** tab.

	C		
	Overview	Detail	
odify application	preferences in the	preference edito	or:

- 9) At the bottom of the Details window, click on the **Plus** sign.
- 10)Browse out to the admin's **Library/Preferences** folder and highlight the preference named **widget-com.apple.widget.worldclock.plist**.



- 11) Under Manage imported preferences, change this to Always, click Add.
- 12)It has now been added to the **Details** panel in **Workgroup Manager**. Click on the picture of the **Pencil**, this will allow you to edit the plist file.

	Overview Details
Modify application	preferences in the preference editor:
Name	Preference ID
🚯 widget-com.ap	ple.widget.worldc_widget-com.apple.widget.worldclock
	*

13)At this point you can edit the preference if you want. Click on all the down arrows by **Always**. Click **Done** to exit.

Name	Type		value	
▶ Once	dictionary		empty	
▶ Often	dictionary		empty	
▼Always	dictionary		4 items	
3107b95d1589a841-city	string	÷		
3107b95d1589a841-continent	string	÷		
city	string	\$		
continent	string	\$	5	

- 14) In Workgroup Manager, click on the **Accounts** button. (We are only doing this to get off of the Details window.)
- 15)On the client computer log into the account:
 - a. Username: **student4**
 - b. Password: **student4**
- 16)Bring up **Dashboard** and notice how the clock is configured to use Dallas time.
- 17)Log out of the client computer.

Finder Sidebar Management:

- 18)In the Finder on the server, select Preferences from the Finder menu.
- 19) Click Sidebar.
- 20) Deselect the following:
 - a. Back to My Mac
 - b. Connected Servers
 - c. Bonjour Computers

	er Preferences
General Labels Sidebar Show these items in DEVICES General Computer General Labels Sidebar Show these items in DEVICES General Disks Ge	n the Sidebar: Id iPods Ic vers
	;

21)Go back to Workgroup Manager and select the group Grade4 again.22)Click on Preferences and the click on Details.

- 23)Browse out to the admin's **Library/Preferences** folder and highlight the preference named **.apple.sidebarlists.plist**.
- 24)Click on the Often from the pull-down menu, then click Add.
- 25)Double click on the **com.apple.sidebarlists** in the Details window.
- 26)Click on the expand **Often**.

New Key Delete)		Set Default Delete Unmatch
Name	Type	Value	
▶ Once	dictionary	empty	
▼ Often	dictionary	4 items	
networkbrowser	dictionary	3 items	
savedsearches	dictionary	2 items	
▶ systemitems	dictionary	7 items	
▶ useritems	dictionary	2 items	
► Always	dictionary	empty	

- 27) Highlight savedsearches, systemitems, and useritems and click Delete. 28) Expand networkbrowser.
- 29) Highlight **Controller** and **CustomListItems**, then click **Delete**.
- 30) Expand CustomListProperties, notice these three remain:
 - a. com.apple.NetworkBrowser.backToMyMacEnabled = false
 - b. com.appleNewtorkBrowser.bonjourEnabled = false
 - c. com.apple.NetworkBrowser.connectedEnabled = false
- 31)Click **Apply Now**.
- 32)Login as the Staff user on the client and verify that these settings are now active for their account.

Note: The Sidebar can not be managed as Always, it must be Once or Often in order to work properly.

Activity 11: Preference Management via Importing an Application's Preference Manifest

Safari's Preference Management:

- On the server launch Safari, set the homepage to <u>http://www.apple.com</u> and close it.
- 2) In **Workgroup Manager**, go back to the **Preferences** button, select the group **Grade4**, and select the **Details** tab again.
- 3) Click on the **Plus** sign at the bottom of the window.
- 4) Browse out to the OSX/Applications/Safari, check the box to Import my preferences for this application, set Manage imported preferences to Always, then click Add.

→ DEVICES jiDisk josx osx sHARED ibeopard @ All PLACES ibesktop	DS_Store .fseventsd .hotfiles.btree .quota.ops .ser .quota.user .quota.user .spotlight-V100 .Trashes .vol Applications	Gotek Ime Broadel Safati Safati		
	Manage imported	ferences for this application I preferences: Always ost preferences (Mac OS X v10.	.5 or later)	Add

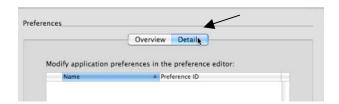
- 5) From the Details panel double click on **com.apple.Safari**.
- 6) Click on the down arrow beside **Always**.
- 7) Notice the **HomePage** is set to **http://www.apple.com**.
- 8) Click **Done** to get out of the editor.
- 9) On the client computer, log into:
 - a. Username: **student4**
 - b. Password: **student4**
- 10)Launch **Safari**, notice how <u>http://www.apple.com</u> tries to come up as the home page.

Activity 12: Preference Management via Apple's Managed Client Application

- 1) On the server go to **Workgroup Manager**:
 - a. Address: pie-osx.rps.loc
 - b. Username: **admin**
 - c. Password: **apple**
- 2) Make sure you are authenticated to the directory.
 - a. Username: diradmin
 - b. Password: **apple1**
- 3) Select the **Groups**, then click on the **Preferences** button.

					Works	group Ma	nager: Loca	al.				
Server Admin	Account		eferences	New Grou	Delete	Refresh	New Windo	v Searc	h			
↔ Authentica	ted as dirad	dmin to	o directory	y: /LDAPv3/12	7.0.0.1							
	Contains	ð	5	Preference	s k	;			0.1.1			
Q- Name (Group N	Contains	GI		-	2		Over	-15	Details	1		
Q- Name (Contains	A GI	D 025	-	2	re account	Over	-15	100 000	1		

- 4) Highlight the **Grade4** group on the left.
- 5) Select the **Details** tab.



- 6) Click on the plus sign at the bottom of the WGM window.
- 7) Navigate out to the server's /System/Library/CoreServices/ folder, highlight ManagedClient and click Add.

DEVICES	Name	Date Modified	
JEVICES	🗿 Kerberos	12/1/08	
HARED	🛷 KerberosAgent	12/1/08	
LACES	🗇 KernelEventAgent.bundle	9/23/07	
EDIA	🔣 KeyboardSetupAssistant	9/24/07	
EDIA	🖗 Language Chooser	9/24/07	
_	🖗 loginwindow	12/1/08	
	📄 lonelist	8/29/08	
_	😡 ManagedClient	12/1/08	
	🗇 mDNSResponder.bundle	10/11/07	
	🕨 🚞 Menu Extras	12/3/08	
	🗇 MLTEFile.bundle	9/23/07	
	🖗 NetAuthAgent	12/1/08	
	ℜ Network Diagnostics	12/1/08	
	Import my preferences for this application		
	Manage imported preferences: Often		
	Import as ByHost preferences (Mac OS X v10.5 or later)		

8) Notice that the Preferences/Details panel is now listing various preferences. At this point those preferences are not managed until you go into them and make setting changes.

Over	view Details
ify application preferences	in the preference editor:
Name	A Preference ID
Bluetooth	com.apple.MCXBluetooth
Dashboard	com.apple.dashboard
Desktop Picture	com.apple.desktop
Dock	com.apple.dock
Folder Redirection	com.apple.MCXRedirector
Home Sync	com.apple.homeSync
iCal	com.apple.iCal.managed
iChat	com.apple.iChat.Managed
Internet Configuration	com.apple.internet
iTunes 7	com.apple.iTunes
iWork Registration	com.apple.iWork08
Kerberos Login	edu.mit.Kerberos.KerberosLogin
Mail	com.apple.mail.managed
Menu Extras	com.apple.mcxMenuExtras

iTunes Manifest Configuration:

- 9) Double click on the **iTunes 7** manifest.
- 10)Click the **Always** disclosure triangle and then click the **New Key** button.
- 11)Click and hold on the **New Item** name.
- 12) Select "Disable Music Sharing."
- 13) Select "true" in the Value column for Disable Music Sharing.
- 14)Repeat steps 11 through 13 to add the following:
 - a. Lock iTunes Parental Control = true
 - **b.** Restrict Explicit Content = true
- 15)Click Done.

iWork Manifest Configuration:

- 16) Double click on the **iWork Registration** manifest.
- 17) Expand Always and click on the New Key button.
- 18)Click and hold on the **New Item** name.
- 19)Select "License Number."
- 20)Enter the **iWork 08 registration** (pretend for class) number in the Value column for License Number.
- 21)Repeat steps 17 through 20 to add the following:
 - a. **Disable Registration Window = true**
 - b. Registration State = 1
 - c. User Name = Your School District's Name or User's Name
- 22)Select all the keys under Often
- 23)Press **Command x** to cut the keys
- 24)Click the **Always** disclosure triangle
- 25)Press **Command v** to paste the keys.
- 26)Click **Done**.

Menu Extras Configuration:

- 27) Double click on the **Menu Extras** manifest.
- 28) Expand **Always** and click on the **New Key** button.
- 29) Click and hold on the **New Item** name.
- 30)Select "AirPort Menu Extra" and leave the value set at true.
- 31)Repeat steps 28 through 30 to add the following:
 - a. Battery Menu Extra = true
 - b. Displays Menu Extra = true
 - c. iSync Menu Extra = true

d. Sound Menu Extra = true

- 32)Click Done.
- 33) Login to the client as:
 - a. Username: student4
 - b. Password: student4
- 34) Verify the changes you made in this section show up.

Activity 13: Directory Backup

- 1) Launch Server Admin highlight pie-osx.rps.loc.
- 2) From the **Server** menu select **Server Settings**.
- Under Save As, name the file, under Where, select the Desktop. Leave all the boxes checked. Click Save.

	Where:	🛅 Desktop	•	
Selec	t the service	settings to export:		
1	AFP			
1	OHCP			
1	ONS			
	ile Sharing			
🗹 i	Cal			
1	Open Directo	bry		1
	Veb			
M 1	Veb			

- 4) This will export all of the configuration files for Server Admin. These will include all configured services for the server.
- 5) If the server had to be rebuilt, one to all of these settings can be imported back into Server Admin to reconfigure the server.
- 6) Under the **Open Directory** service, click on the **Archive** button.

00	Server	Admin:pie-osx.rps.loc:Open Directory		
SERVERS Mailable Servers V pie-osx.rps.loc	Overview Logs Arch	ve Settings		
e AFP e DHCP e DNS e iCal	Use controls b	elow to archive or restore a copy of your Op	en Directory database.	
Open Directory Web				
				Choose.
	Archive in:	Enter or browse for the archive path.	(Archive)	
	Archive in: Restore from:	Enter or browse for the archive path.	(Archive)	Choose.

7) Click on **Choose** by **Archive in**, select the admin's **Desktop** folder, then click on the **Archive** button.

Archive in:	/Users/admin/Desktop		Choose
	Enter or browse for the archive path.	Archive	

- 8) You'll be asked to enter a name and password for the archive. Enter the following and click **Ok**.
 - a. Archive Name: Jan2009
 - b. Password; apple
- 9) Notice there isn't a chance to verify the password. Be careful what you type. 10)The Open Directory database will be archived at this point.

•	
Archiving Open Directory Master	
	-

11)Archiving the Open Directory database basically means all of the information in Workgroup Manager is backed up; users, groups, computer list, preferences for users, passwords. If you go into Workgroup Manager and just export users, the passwords are not exported with their other information. Archiving the Open Directory database is the only way to backup the passwords.

- 12)Go to the desktop of the server.
- 13)Notice the two new files. One is the .plist file of the Service configurations from Server Admin, the other is the .sparseimage that contains the backup of the Open Directory database.
- 14)Using the Import feature in Server Admin and the Restore feature in the Open Directory service, most all of the servers settings can be recreated if something were to happen to the server.