# MOODLE2.6 UPGRADE PLAN

The upgrade to Moodle 2.6 is dependent on deployment of the archive as the archive will also act as a backup of production Moodle and can be used if we need to roll back. The best date to create the archive is on the last day of term (before courses are reset but before course admins take annual leave) Copying data from production Moodle to archive will take about 22 hours so assuming that copying the data for Moodle archive starts on Friday 4th July 2014, 5pm, the upgrade will start on the following morning.

Archive preparation guidelines can be found at <https://wiki.ucl.ac.uk/display/ISMoodle/Moodle+archive+preparation+guidelines>

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| **√** | **Date** | **Task** | **Who** | **comments** | | **Duration** |
| **Moodle Archive Preparation** | | | | | | |
| √ | 22/04 | Advertise Moodle outage in isd-news, Moodle homepage, Week@UCL | ELE |  | |  |
| √ | 10/06 | Copy the software | LTA | From production to Moodle-archive/13-14. This can be done a couple of weeks in advance | | 30 mins |
| √ | 10/06 | Create an empty moodle archive database | DBA | Create database moodle\_archive\_1314 default character set utf8;  grant all privileges on moodle.\* to 'moodleuser'@'localhost' identified by 'yourpassword';  flush privileges; | | 10 mins |
| **√** | 10/06 | Change db and server settings |  | Modify config.php local  $LS->dbhost='localhost';  $LS->dbname=moodle\_archive\_1314'; $LS->dbuser='moodleuser'; $LS->dbpass=’\*\*\*\*\*';  $LS->wwwroot='https://moodle-archive.ucl.ac.uk/13-14';  $LS->dataroot='/data/moodle/13-14'; | | 10 mins |
| √ | 10/06 | Ensure emails cannot be sent out | LTA | Modify config.php  $CFG->noemailever | | 10 mins |
| **√** | 10/06 | Add archive banner | LTA | Copy /data/apache/htdocs/moodle/12-13/theme/ucl\_archive  To  /data/apache/htdocs/moodle/13-14/theme/ucl\_archive  Modify  theme/ucl\_archive /style/ucl.css. Replace the img url with:  div#archivetopstrap  .  .  .  }  With  div#archivetopstrap{  background: url([[pix:theme|archivestrap]]);  height: 60px;  } | | 10 mins |
| √ | 10/06 | Modify site name. | LTA | Modify  theme/ucl\_archive/layout/frontpage.php  theme/ucl\_archive/layout/login.php  theme/ucl\_archive/layout/mydashboard.php  and replace ‘ucl moodle archive 2012/13’ with ‘ucl moodle archive 2013/14’ | |  |
| √ | 10/06 | Ensure latex filter displays text correctly | LTA | Go to course 4083  If it doesn’t display correctly change the file permissions on /data/apache/htdocs/moodle/13-14/filter/tex/mimetext.linux to 0755 | |  |
| √ | 10/06 | Fix search courses block | LTA | Modify /theme/ucl/layout/mydashboard.php  Replace:  <form method="get" action="/12-13/course/search.php" id="ucl-coursesearch">  With:  <form method="get" action="/13-14/course/search.php" id="ucl-coursesearch"> | |  |
| √ | 10/06 | Purge theme cache | LTA | Go to <https://moodle-archive.ucl.ac.uk/13-14/theme/index.php> and select clear theme cache. | | 1mins |
| √ | 25/06 | Copy /data/Moodle from Moodlevm-nfs to /data/Moodle/13-14 on Moodle-archive (~ 1.7Tb) | DCS | An incremental rsync will then be required on 04/07 but shouldn’t take very long as only modified files will need changing | | 22 hrs |
|  | 03/04  8am | Start restore of moodle production db backup, of 03rd July 03:00 hrs, into moodle-archive (moodle\_archive\_1314) db and moodle-db-a (moodle\_live) db.  Once restore complete start replication from LIVE moodlevm-db into moodle-archive and moodle-db-a | DBA | This will avoid the need for a 12 hr backup and restore of the moodle prod db for moodle archive and the new db on moodle-db-a on 4th July because both databases will be sync’d with prod. | |  |
| Start of upgrade  Start of Archive.  No access to production Moodle between Friday 04/07/14, 5pm until Wednesday 09/07/13, 9am | | | | | | |
|  | Friday4th 5pm | Put Moodle into maintenance mode and enable .htaccess\_maint.  Stop the cron job  Remove moodlevm-b/c from SLB farm (stop Apache) | LTA  DCS | | * Site administration->Server -> Maintenance mode * Set ‘Maintenance mode’ to ‘enable’   In /data/apache/htdocs/moodle\_v247  And  /data/apache/htdocs/moodle\_v262   * Rename .htaccess as .htaccess\_live * Rename .htaccess\_maint as .htaccess   Users visiting Moodle.ucl.ac.uk will see message similar to:  “*The Moodle 2.6 Upgrade has begun. Moodle will be unavailable from 5pm on 04/07/14 until 9am 09/07/14.*  *However a read only copy will be available from noon on Saturday 5th July at Moodle-archive.ucl.ac.uk/13-14*” |  |
|  | Friday4th 5pm | Stop replication from moodlevm-db moodle\_live database to moodle-db-a moodle\_live database.  Stop replication from moodlevm-db moodle\_live database to moodle-archive moodle\_archive\_1314  Truncate the mdl\_log file on moodle-db-a, moodle\_live database. | DBA | |  | 8hrs |
|  | Friday4th 5pm | Rsync the data /data/Moodle/13-14 | DCS | | On moodle-archive  Shouldn’t take too long as only modified files need to be copied | 6 hrs |
|  | Friday4th 5pm | Point the moodledb.ucl.ac.uk dns entry to moodle-db-a | DCS | | moodledb.ucl.ac.uk 3600 IN A 128.40.163.132  to  moodledb.ucl.ac.uk 3600 IN A 128.40.163.142 | 12 hrs |
| Archive ready for customising. The following instructions apply to moodle-archive.ucl.ac.uk/13-14 | | | | | | |
|  | Sat  5th  9 a.m. | Change cookie prefix to prevent session clashes | LTA | as more than 1 Moodle instance on same server admin->server->session handling. Change it to uclmoodle1314 | |  |
|  | Sat 5th | Change the theme | LTA | Site admin>appearance>themes>theme selector>  Change theme for default to UCL\_archive | |  |
|  | Sat 5th | Add google analytics tracking code to header | LTA | Site admin>appearance>additional html  Paste the following in to Within header section:  <script>  (function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){  (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1\*new Date();a=s.createElement(o),  m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)  })(window,document,'script','//www.google-analytics.com/analytics.js','ga');  ga('create', 'UA-41333975-6', 'ucl.ac.uk');  ga('send', 'pageview');  </script> | |  |
|  | Sat 5th | Change the url in the footer for ‘ucl moodle policy and guidelines’ | LTA | Goto site admin>settings>appearance>themes>ucl>footerlinks1  Edit the html source.  Replace <https://moodle.ucl.ac.uk/file.php/1/policies/Policy2010.html>  With  “https://moodle-archive.ucl.ac.uk/13-14/file.php/1/policies/Policy2010.html" | |  |
|  | Sat  5th | Remove the guest login button | ELE | Settings > site administration > plugins > authentication > Manage authentication > Guest login button = Hide | | 5 mins |
|  | Sat  5th | Create roles - student (read only) and tutor (read only). | ELE | See the [wiki page](https://wiki.ucl.ac.uk/display/ISMoodle/Archive+and+year-end+process+-+actions+required#Archiveandyear-endprocess-actionsrequired-Createthenewreadonlyroles) for more info  Steps to create role:  Note to carry out the following instructions, use a firefox browser with selenium plug-in installed.  1) Log-in as admin to newly created Moodle archive.  2) Go to Site Administration -> Users -> permissions -> define roles  3) Duplicate student role and rename to Student (read-only)  4) Click pencil icon to edit the new role  5) Ensure the 'advanced' button is clicked so it shows 'hide advanced'  6) Ensure that the capability list is not filtered i.e that the page shows all permisssions  7) Ensure the following check boxes for context are ticked: user, category, course, activity module and block  8) Select ‘Create this role’.  9) Edit the newly created role so that the correct page is displayed for the selenium script  10) Run the selenium script <https://wiki.ucl.ac.uk/download/attachments/14611543/selenium_student_read_only2.html>  to modify all relevant permissions: note to do this you'll need to use a firefox browser with selenium plug-in installed  Repeat steps 2 – 10 for the tutor (read only) role | | 1 h |
|  | Sat  5th | Change location of Site policy | ELE | Settings>site admin> security > Site policies >  ‘Change Site policy’ and ‘site policy url for guests’ to https://Moodle-archive.ucl.ac.uk/13-14/policy/about\_the\_archive.html | | 5 mins |
|  | Sat  5th | For the student (read only) role ensure the graded role is read-only | ELE | Grades>general settings  Untick all graded roles.  Tick student (read only) role | |  |
|  | Sat 5th | Remove the latest news block | ELE | Site admin>plugins>blocks>manage blocks  Hide latest news block | |  |
|  | Sat  5th | Prevent enrolment on courses.  Don’t think we need to do this anymore as the selenium script takes care of it. Rod will confirm | ELE | We used to do this by executing some sql but an easier option might be to hide all enrolment methods in enrolments>manage enrolment plugins and make them all hidden | |  |
|  | Sat  5th | update mdl\_user set policyagreed=0 | LTA | reset site policy flag for users | |  |
|  | Date yet to be agreed | Map Tutor, Non-editing tutor, Course administrator, Course creator, UCL Support staff and administrator into the Staff (read only) role. | LTA | See the [wiki page](https://wiki.ucl.ac.uk/display/ISMoodle/Archive+and+year-end+process+-+actions+required#Archiveandyear-endprocess-actionsrequired-Mapstudentstothereadonlystudentrole) for the queries to execute. Backup the table first:  mysqldump --add-drop-database -umoodleuser -p moodle\_archive\_1314 mdl\_role\_assignments > mdl\_role\_assignments.sql | | 30 mins |
|  | Sat  5th | Map Student and participant into Student (read only) role. | LTA | See the [wiki page](https://wiki.ucl.ac.uk/display/ISMoodle/Archive+and+year-end+process+-+actions+required#Archiveandyear-endprocess-actionsrequired-Mapstudentstothereadonlystudentrole) for the queries to execute | | 30 mins |
|  | Sat  5th | Modify links from moodle.ucl.ac.uk to moodle-archive.ucl.ac.uk/13-14Using admin/replace.php | LTA | links to files and resources are replaced with the archive location and not the live. The search/replace file is in admin/tool/replace/  The following tables need to be altered/dropped before this script will work:  alter table mdl\_course\_sections modify column summary longtext;  alter table mdl\_email\_mail modify column body longtext;  alter table mdl\_resource\_old modify column intro longtext; | | 30 mins |
|  | Sat  5th | Modify Moodle-archive/index.php | LTA | Add url of new instance. Urls of archives should be displayed with the most recent at the top. | |  |
|  | Sat  5th | Redirect users visiting Moodle.ucl.ac.uk to Moodle-archive | LTA | Message on Moodle-archive/index will display similar to:  “Moodle is being upgraded and will be unavailable until 09/07/12. However, a read- only archive can be accessed from the links below…” | |  |
| Moodle-archive is available to users from noon on Saturday 5th July. | | | | | | |

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| SLB Farm name: | moodle.ucl.ac.uk |
| App Server : | Moodlevm-a.ucl.ac.uk , moodlevm-b.ucl.ac.uk, moodlevm-c.ucl.ac.uk |
| Database Server: | Master: moodle-db-a.ucl.ac.uk (but will be moving to moodle-db-a)  Slave: moodledb-c.ucl.ac.uk |
| Data Server: | moodlevm-nfs.ucl.ac.uk |
| Path to code: | /data/htdocs /moodle |
| Path to data directory: | /data/moodle |
| Database: | moodle\_live |
| Date of Upgrade: | 04/07/2014 – 05/07/2014 |

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| Moodle 2.6.2 Upgrade begins , assumes archive deployed | | | | | |
|  | Fri 4th | Check that we have maintenance mode enabled and login is redirected as per .htaccess at root level | LTA | * <https://moodle.ucl.ac.uk> * Maintenance mode message should be displayed   “*The Moodle 2.6 Upgrade has begun. Moodle will be unavailable from 5pm on 04/07/14 until 9am 09/07/14.*  *However a read only copy will be available from noon on Saturday 05th July at https://moodle-archive.ucl.ac.uk/13-14*” |  |
|  | Fri 4th (or anytime before) | Prepare v262 Release tag on moodlevm-a/b/c  (<https://svn.ucl.ac.uk/repos/isd/moodle26/trunk> ):   * Copy svn v262 trunk code/release tag to /data/apache/htdocs/moodle\_v262 * Create local\_settings.php from local\_setting\_template.php and edit related settings * Chmod 0755 filter/tex/mimetex.linux * Enable .htaccess\_maint | LTA | - Following parameters to be changed in local\_settings.php -  $LS->dbhost = 'moodle-db-a.ucl.ac.uk';  $LS->dbname = ‘moodle\_live';  $LS->dbuser = 'moodleuser';  $LS->dbpass =  $LS->wwwroot = 'https://moodle.ucl.ac.uk';  $LS->dataroot = '/moodlevm-nfs';   * Rename .htaccess as .htaccess\_old   Rename .htaccess\_maint as .htaccess | 15 mins |
|  | Sat 5th | Connect to moodle-db-a and check that the mdl\_log table has been truncated in the moodle\_live database | LTA | Select \* from mdl\_log |  |
|  | Sat  5th | Enable v262 Release tag on moodlevm-a | LTA | Change target of ‘moodle’ symlink to point to moodle\_v262 | 15  mins |
|  | Sat  5th | Compare $CFG->wwwroot/config.php file with current config file | LTA |  |  |
|  | Sat 5th | Tail php error log | LTA | tail –f /var/log/httpd/error\_log |  |
|  | Sat  5th  12:30pm | Start upgrade from web browser | LTA | <https://moodle.ucl.ac.uk> | 2 hrs |
|  | Sat  5th 3:45pm | Configure admin settings:  - Add the MyPortfolio block to the Moodle My home page | LTA | My home > Any course, Turn editing on, Add a block, Myportfolio | 15 min |
|  | Sat 5th  4pm | Remove redundant themes from theme list | LTA | Site admin>appearance>themes>theme settings  Remove all themes from the theme list and add ucl | 5min |
|  | Sat 5th  4.05pm |  | LTA | site admin>appearance>themes>ucl>google analytics.  Tick enable google analytics  Copy and paste the following in to ‘Your tracking id’:  <script type="text/javascript">  var \_gaq = \_gaq || [];  \_gaq.push(['\_setAccount', 'UA-4551567-2']);  \_gaq.push(['\_setDomainName', 'ucl.ac.uk']);  \_gaq.push(['\_trackPageview']);  (function() {  var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;  ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';  var s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);  })();  </script> | 5 mins |
|  | Sat 5th  4.10pm | Remove google analytics script from header | LTA | Site admin>appearance>additional html.  Remove everything from ‘Within Head’ | 5 mins |
|  | Sat 5th  4.15pm | Add moodle usage policy document | LTA | Site admin>appearance>themes>ucl>general settings.  Upload the correct file | 5 mins |
|  | Sat 5th  4.20pm | Add custom menu text | LTA | Site admin>appearance>themes>theme settings  In the custom menu items box copy and paste:  Staff Help  -Login Problems?|https://wiki.ucl.ac.uk/display/MoodleResourceCentre/Moodle+Staff+FAQs#MoodleStaffFAQs-HowdoIlogin%3F  -Moodle Support Documentation|https://wiki.ucl.ac.uk/display/MoodleResourceCentre/Guides+to+using+Moodle+for+staff  -About Moodle at UCL|http://www.ucl.ac.uk/isd/staff/e-learning/core-tools/moodle  -FAQs|https://wiki.ucl.ac.uk/display/MoodleResourceCentre/Moodle+Staff+FAQs  -Request a Moodle Course|http://www.ucl.ac.uk/isd-extra/staff/e-learning/tools/moodle/newcourse.php  -Request Portico Enrolments|http://www.ucl.ac.uk/isd-extra/staff/e-learning/tools/moodle/portico\_enrolments.php  -Moodle Exam Notification|http://www.ucl.ac.uk/isd-extra/staff/e-learning/tools/moodle/exam.php  -Moodle Training|http://www.ucl.ac.uk/isd-extra/staff/e-learning/training/  -Contact Moodle Support|http://www.ucl.ac.uk/isd-extra/staff/e-learning/support/  -UCL Moodle User Group|http://moodle.ucl.ac.uk/course/view.php?id=46  Student Help  -Login Problems?|https://wiki.ucl.ac.uk/display/ELearningStudentSupport/Moodle+FAQs#MoodleFAQs-Whycan%27tIlogontoUCLMoodlewithmyUCLusernameandpassword%3F  -Moodle Quick Start Guide|https://wiki.ucl.ac.uk/display/ELearningStudentSupport/Moodle+Quick+Start+Guide+for+Students  -Learning with Technology|https://moodle.ucl.ac.uk/course/view.php?id=7434  -Plagiarism and Academic Writing|http://moodle.ucl.ac.uk/course/view.php?id=12731  -Subject area Study Skills|https://moodle.ucl.ac.uk/course/category.php?id=70  -IT training for Students|http://www.ucl.ac.uk/isd/students/training  -FAQs|https://wiki.ucl.ac.uk/display/ELearningStudentSupport/Moodle+FAQs  -More student links|http://www.ucl.ac.uk/students  Services  -Moodle Archive|https://moodle-archive.ucl.ac.uk/  -Portico|http://www.ucl.ac.uk/portico  -Common Timetable|http://www.ucl.ac.uk/timetable  -Library|http://www.ucl.ac.uk/library  -MyAccount|https://myaccount.ucl.ac.uk/  -Live@UCL Email|http://outlook.com/live.ucl.ac.uk  -MyPortfolio|https://myportfolio.ucl.ac.uk | 5 mins |
|  | Sat 5th  4.25pm | Turn off news on mobiles | LTA | Site admin>appearance>themes>ucl>front page  Set ‘news on mobiles’ = ‘never show’ |  |
|  | Sat 5th  04:30pm | Purge cache after upgrade | LTA | Site administration->development-> Purge all Caches | 5 min |
|  | Sat 5th July 2014  5:00pm | Post upgrade Sanity Testing | LTA | Create courses  Create some activities within course  Create some resources within course  Check cache configuration, site admin-> plugins-> caching-> configuration |  |
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| Post-upgrade Tasks | | | | | |
|  | Sun  6th  10am | Final live testing | ELE | When upgrade script has completed. | 8 hrs |
|  | Sun 6th  10am | Add marketing hot spots and front page news | ELE |  | 1 hrs |
|  | Mon  7th  8am | - Enable v262 release code on moodlevm-b/c  - Start apache | LTA | Change target of ‘moodle’ symlink to point to moodle\_v262 on moodlevm-b/c | 15 min |
|  | Mon  7th | Start Cron job on moodlevm-a | DCS |  | 15  min |
|  | Mon  7th | Disable .htaccess\_maint | LTA | On moodlevm-a/b/c  - rename .htaccess to .htaccess\_maint  - rename .htaccess\_live to .httaccess | 15  min |
|  | Mon  7th | Disable Moodle maintenance Mode | LTA | [https:/moodle.ucl.ac.uk/admin](https://moodle-dr.moodle-loadtest.ucl.ac.uk/admin)  Settings > Site administration > Server > Maintenance Mode | 15  min |
| Moodle 2.6.2 available to users from 9am on 07/07/14 | | | | | |

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| Rollback Plan | | | | |
| 1 | Point DNS entry moodledb.ucl.ac.uk to moodlevm-db.ucl.ac.uk  (Please confirm time taken to update dns entry) | DCS | * moodlevm-db.ucl.ac.uk should have live moodle-v247 database * Make sure ‘moodle\_live’ databse exists * $mysql –umoodleuser –p   $show databases | ? |
| 2 | Update symlink ‘moodle’ under /data/apache/htdocs on moodlevm-a | DCS | * Point to moodle\_v247 codebase instead of moodle\_v262 |  |
| 3 | Data directory(/data/moodle) restore won’t be necessary on moodlevm-nfs | DCS | * We will restore latest data folder backup only if something goes wrong on moodlevm-nfs during Sanity Testing after rollback. This should not take too long. Folders that might have been changed while upgrading are as below,   /data/moodle/localcache  /data/moodle/cache  /data/moodle/sessions  /data/moodle/temp  /data/moodle/lang | ? |
| 4 | Check local\_settings.php script configuration on moodlevm-a | LTA | $LS->dbhost ='moodledb.ucl.ac.uk';  $LS->dbname = 'moodle\_live'; $LS->dbuser = 'moodleuser'; $LS->dbpass = ;  $LS->wwwroot = 'https://moodle.ucl.ac.uk';  $LS->dataroot = '/moodlefs';  $LS->noemailever = false; | 5 mins |
| 5 | moodle.ucl.ac.uk within webbrowser should point to moodle-v2.4.7 | LTA |  | 10 mins |
| 6 | Sanity Testing | LTA | * Create courses * Create some activities within course * Create some resources within course * Check cache configuration, site admin-> plugins-> caching-> configuration | 30 mins |
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