

# Maintenance Event Archives

## Previous Outages & Events

Start	End	Event	Location	Planned Activities	Outcome	
2017-10-19 06:00	2017-10-19 10:00	Monthly routine maintenance (extended)	NCSA	Routine patching and reboots, firewall firmware updates, server firmware updates.	All NCSA-hosted resources except for Nebula.	COMPLETE
2017-10-19 06:00	2017-10-19 14:00	qserv-master replacement	NCSA	qserve-master will be down so that systems engineering can finish configuring the new server and xfering files. Status updates here: <a href="#">blocked URL</a> IHS-378 - PDAC qserv-master upgrade <a href="#">IN PROGRESS</a> .	qserv-master will be down for this entire period	COMPLETE
2017-07-20 04:00	2017-07-20 08:00	Monthly lsst-dev maintenance	NCSA	<ul style="list-style-type: none"> <li>Routine system updates.</li> <li>Note that this event will begin 2 hrs. earlier than normal</li> <li><b>Note that the July 20 maintenance event will include permanently unmounting the remaining NFS filesystems.</b></li> <li><a href="#">IHS-365</a></li> </ul> <p>See<a href="#">blocked URL</a>IHS-365 - scheduled maintenance for NCSA-hosted dev machines (July 20, 2017, 4:00 - 8:00am Pacific) <a href="#">DONE</a> for details</p>	verify-worker31 suffered a failure and will be out of commission for a while	
2017-06-22 (06:00)	2017-06-22 (10:00)	Critical Kernel upgrades	NCSA	Upgrade kernel and system packages to address <a href="#">Stack Guard Page</a> vulnerability. See also: <a href="#">blocked URL</a> IHS-324 - Emergency update of all NCSA hosted dev machines <a href="#">DONE</a>	All NCSA hosted resources (except Nebula).  UPDATE: 08:00 PT - Outage is being extended till 10:00 PT.  Outage was completed at 10PT. Some nodes didn't come back. See ticket for details.	
<del>2017-06-04</del>	<del>2017-06-05</del>	<del>DAQ installation</del>	<del>NCSA</del>	<del>Mike Huffer postponed to a later date.</del>	Pushed back - yet to be rescheduled	
2017-05-18 (06:00)	2017-05-18 (08:00)	LSST monthly maintenance	NCSA	<ul style="list-style-type: none"> <li>Kernel upgrades and reboots in the LSST dev environment</li> <li>Permanently unmount the old NFS home filesystem. This completes the decommissioning of the NFS home filesystem.</li> <li>Install of Unbound local caching resolver software as recommended by NCSA Security</li> <li>Remount of remaining NFS exports in read-only mode. Users should migrate any old data off of NFS in preparation for the final NFS decommissioning. NFS is expected to be turned off entirely on July 20, 2017.</li> <li>Upgrade to latest MySQL 5.5.56 on <a href="#">lsst-db.ncsa.illinois.edu</a>.</li> </ul>	Success.	
2017-05-04 09:30	2017-05-04 10:00	<b>Unplanned</b>  lsst-dev file systems full	NCSA	lsst-dev  lsst-dev filesystems / and /home filled up at approximately 09:30. This was a result of inode usage from another process	The admins freed up inodes to make the filesystem responsive again.  Admins are currently tracking down the root cause.	
2017-04-27 13:11	2017-04-27 14:20	<b>Unplanned</b>  Nebula outage		glusterfs crashed due to <a href="#">this bug</a> , so no instances could access their filesystems  All instances running on Nebula	Needed to reboot the node that systems were mounting from, but took the opportunity to upgrade all gluster clients on other systems while waiting for a reboot. Version 3.10.1 fixes the bug. All instances with errors in their logs were restarted.	
2017-04-20 (04:30)	2017-04-20 (09:30)	LSST monthly maintenance	NCSA	<b>This event is cancelled so as not to interfere with <a href="#">Early Integration Activity #03</a> being held at NCSA April 19 &amp; 20.</b>	nothing bad happened	
2017-04-17 (13:41)	2017-04-17 (13:53)	<b>Unplanned</b>  lsst-dev login node down	NCSA	Users unable to log in to lsst-dev.  Probable cause is that the root file system filled up due to excessive logging	Fixed	
2017-03-27 (22:00)	2017-03-29 (14:00)	Blue Waters maintenance	NCSA	<p>Due to maintenance of cooling infrastructure at NPCF, Blue Waters will down during this period. Cray will also take this maintenance window to perform some system updates at the same time.</p> <p><b>Systems that will be down</b></p> <ul style="list-style-type: none"> <li>Slurm cluster compute nodes will be powered down for the duration of the outage.</li> </ul> <p><b>Systems that will remain up</b></p> <p>Qserv nodes ( lsst-qserv-* ), SUI nodes ( lsst-sui-* ), Bastion node ( lsst-bastion01 ) should remain online during the outage.</p> <p>However, if temperatures in the NPCF rise too high, we will be forced to shut these down as well. I've been told that this is a low-probability scenario and we will be given time to do graceful shutdowns. In the unlikely event that this happens, it will be communicated through the DM Slack channel and also posted here.</p>	All systems normal	
2017-03-23 (0800)	2017-03-23 (1300)	NCSA Nebula Outage	NCSA	Nebula will take an outage to balance and build a more stable setup for the file system. This will require a pause of all instances, and Horizon being unavailable.	Nebula is back to normal.	
2017-03-16 (0430)	2017-03-16 (0930)	LSST monthly maintenance	NCSA	GPFS filesystems will go offline for entire duration of outages. Some systems may be rebooted, especially those that mount one or more of the GPFS filesystems.		

Aug. 24, 06:00	Aug. 24, 13:30	LSST Dev infrastructure upgrades	NCSA	<ul style="list-style-type: none"> <li>Infrastructure upgrades to all LSST-dev resources: <ul style="list-style-type: none"> <li>lsst-dev01</li> <li>lsst-db</li> <li>lsst-xfer</li> <li>lsst-web (lsst7)</li> <li>lsst-dts</li> <li>lsst-dbdev environment</li> <li>lsst-daq test stand</li> <li>lsst-dbb (data backbone) test stand</li> <li>lsst-elast (elastic compute) test stand</li> </ul> </li> </ul>	Completed successfully	
Aug. 24, 06:00	Aug. 24, 07:30	LSST Dev patching	NCSA	<ul style="list-style-type: none"> <li>Regular maintenance (Puppet releases and patching) of NPCF-based systems</li> <li><a href="#">IHS-416</a></li> </ul>	<p>Completed. <b>Note the separate status message for "LSST Dev infrastructure upgrades", which includes system in NCSA 3003 and is scheduled for 06:00 - 15:00.</b></p> <p>Maintenance on the following:</p> <ul style="list-style-type: none"> <li>Cluster Services</li> <li>Verification cluster</li> <li>Prototype DAC</li> <li>affected systems include: adm01, backup01, bastion01, monitor01, object*, qserv*, sui*, verify-worker*, test0*</li> </ul>	
Aug. 22, 06:00		decommissioning of lsst-dbdev machines	NCSA	<ul style="list-style-type: none"> <li>The lsst-dbdev nodes are old, obsolete and unused. They'll be powered down, but kept for a few months in case a need for the data on them arises.</li> </ul>	Done.	
2017-06-15 0600	2017-06-15 0730	Deploy unbound LSST cluster nodes (verify-worker*, qserv*, sui*, bastion01, test*, backup01)	NCSA	DNS resolving may have a short (~30 mins) delay.	Updates deployed successfully via new puppet module. All tests passed.	
2017-02-22 1415	2017-02-22 (1615)	Nebula Gluster Issues	NCSA	All Nebula instances paused while gluster repaired	Nebula is available.	