

Mira Deployment Update

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L2P May Workshop – “Move to Mira”

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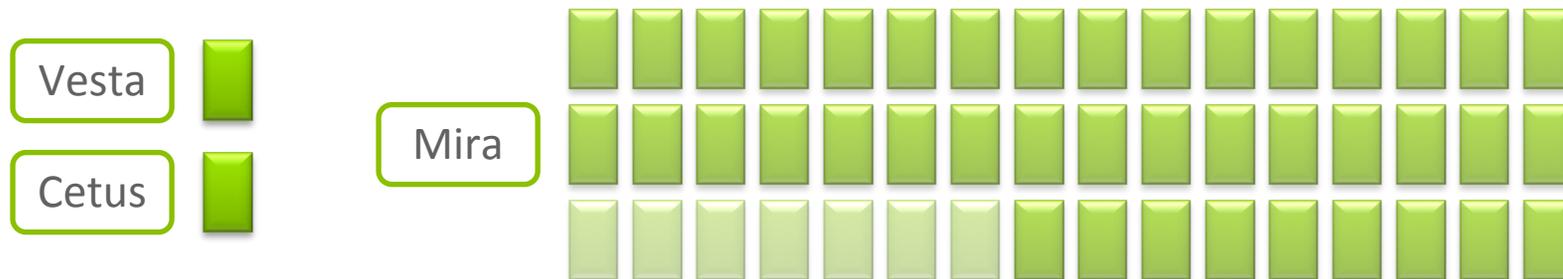
Mira Deployment - Plan

- **Five phases**
 - 1. Installation – underway mid-April 2012
 - 2. Integration
 - 3. Acceptance Testing
 - 4. Early Users and Final System Preparation
 - 5. General Availability (aka Production, INCITE access)
- **Installation includes delivery and install of**
 - 48 Racks of IBM Blue Gene/Q (BG/Q) compute nodes (49,152 nodes)
 - 6 Racks of BG/Q IO nodes (48 IO forwarding nodes, 16 Q-based login nodes)
 - 4 power-7 login nodes (just like ones on T&D racks)
 - 21 Data Direct Networks (DDN) 12K couplets (to provide 26PB scratch and 3PB home)
- **Previously installed and accepted**
 - Service and management nodes, IB network, Ethernet network, DDN disks



Mira Deployment - Current Status

- **Currently in Phase 1: Hardware delivery and installation**
- **First Mira racks were delivered 4/23/2012**
 - 41 Mira racks delivered so far
 - Expect final Mira racks to be delivered by end of May
- **Phase 1 will overlap with Phase 2**
 - Delivery and installation of final storage hardware will happen after Q install is finished
- **Phase 2: Integration**
 - Compute and IO integration and testing
 - Final preparation for acceptance testing
 - Early Science Project testing on Mira
 - Should start first week in June





Mira Deployment Photos



