New Hardware Plan

1.0 Goals

1. Move Indianapolis Based Services to Bloomington Data Center - OIM and TWiki production services should be moved to Bloomington based servers. Indianapolis will host emergency recovery hardware, and development services only. A CEMon collector should still be available at Indianapolis for collection of critical data, but all non-emergency recovery services should be in Bloomington.
2. Retire Old Hardware - Old servers should be retired or repurposed to non-vital functions. Any unnecessary hardware will be given to other groups or surplussed.
3. Relieve Development and ITB Space Issues - New hardware will provide consistent hardware/OSG/VM services for production, ITB, and development services.
4. …

2.0 Implementation Plans

2.1 Moving Services - All cases
1. Complete acquisition of “life cycle” hardware (see section 3)
2. Install hardware in Bloomington data center including OS and VM host software.

2.1.1 Moving a service instance from Indianapolis to Bloomington
1. Install service software, test internally. (Does any script/cron/config explicitly use a 134.x.x.x address?)
2. Change DNS entry for the service to point to the Bloomington instance. To be performed only on an appropriate Tuesday.
3. After some wait period (1 release cycle?) with no problems observed, power down the Indianapolis instance.

2.1.2 Moving a service instance from obsolete hardware in the Bloomington data center.
1. Install service software with IP number different than original instance, test internally. (Any explicit 129.x.x.x addressing?)
2. Change DNS entry to point to the new IP. To be performed only on an appropriate Tuesday.
3. After some wait period (1 release cycle?) with no problems observed, power down the old instance.

2.2 Retiring Hardware - Outline of the steps necessary to achieve Goal 2.
1. Any machine that has had no service hosted on it for 1 release cycle is a candidate for retirement. Retirement may be to surplus, another purpose or another group (with approval)

2.3 Relieving Space Issue - Outline of the steps necessary to achieve Goal 3.
1. At least one of the new “life cycle” nodes can be used to Development VMs.

2.4 …

3.0 Purchasing and Delivery

Six nodes, following specifications. Delivery to be determined, price previous estimate.

Model: DELL PowerEdge R415
CPU: Dual Opteron 4130, 4 Cores, 2.6GHz (8 cores total)
Memory: (x8) 4GB 1333MHz Dual Ranked RDIMMs, Adv. ECC (32 GB total)
HDD: (x4) 300GB 15k RPM SAS 6 Gbps 3.5” (900 GB usable)
Price: $4919.52

4.0 Hardware and OS Installation

Details of the installation process should go here.

5.0 Service Move Details

In general, no xxx1 and xxx2 services should run on the same physical host. Services moved from Indianapolis will be hosted on the newly acquired “life cycle” hardware. Services and hosts are listed below.

1. huey.uits.iupui.edu
    - Host for: x01, myosg2, twiki2, software2, oim, rsv-client2, test, rsvprocess2,ticket2 data2, ds-in-01, twiki-docteam
2. riley.uits.iupui.edu
    - Host for: is2
3. twiki
4. cindy.uits.iupui.edu
    - Host for: is4

Move services in the following order:

1. twiki (single service on a host)
2. twiki-docteam
3. oim
4. software2
5. ticket2
6. myosg2
7. Evaluate dependencies associated with rsv-client2, rsvprocess2 and data2 and

schedule moves as appropriate.

8. is2
9. Are x01, test, twiki2 used at all?

6.0 Retiring Hardware Details

7.0 Allocating New Space for Development Instances

8.0 Summary and Wrap