

Online

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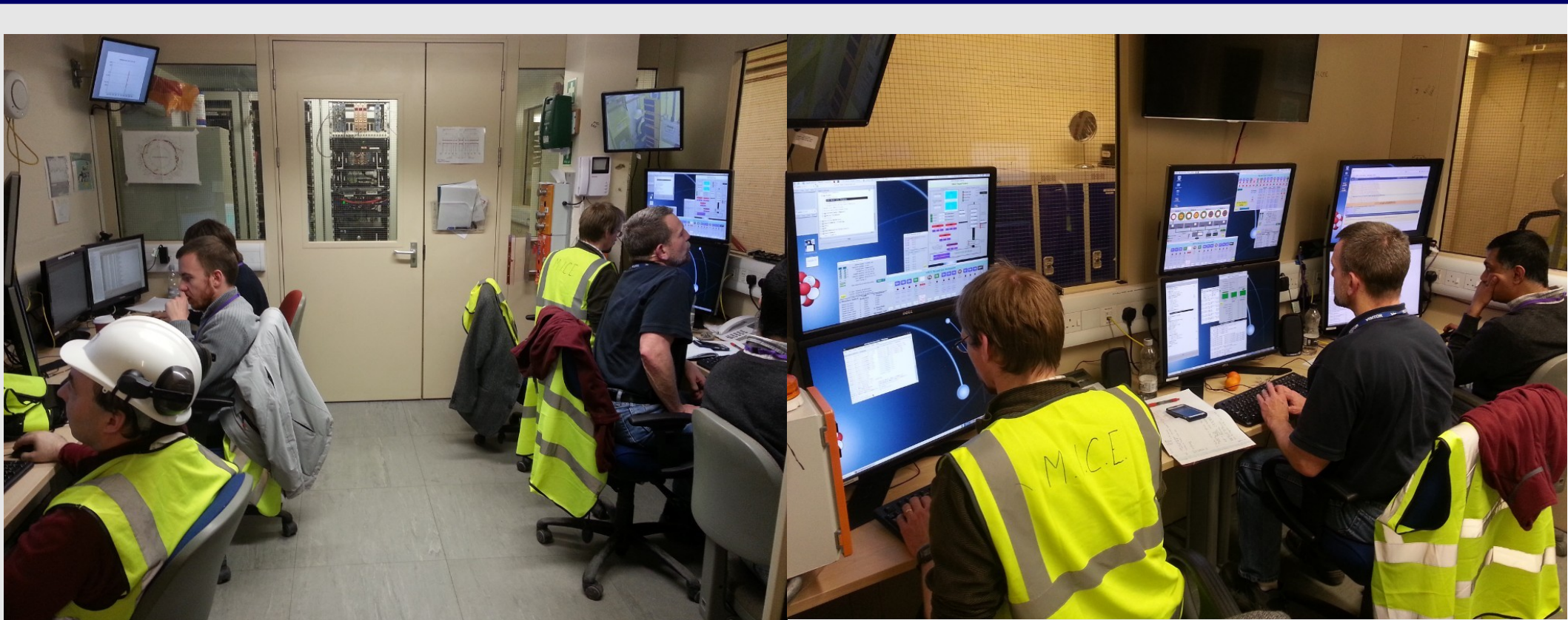
- Mock Data challenge.

- Onwards

MLCR Thin Update

- An effort was made to increase screenspace in the MLCR, using dual screened, high resolution displays.
- MLCR now uses “thin clients” labelled micethin00 to micethin05, and serve a general purpose
 - Miceopipc's have been removed from the control room, however all thin clients are configured with the C&M software.
 - DAQ, OnMon, OnRec can all be accessed via ssh tunnels, and X-forwarding.
 - We should make it seamless and easy for shifters. Perhaps using password less ssh / start scripts on the thin clients may help?
- Each thin client is configured the same.
 - Does not matter towards the organisation in the MLCR..
 - Operations have a convention, which it seems sensible to stick to.

Control Room in use



MLCR – Alarms and Whiteboard

- Display of the Alarm Handler and Web Whiteboards has been chosen to use large 32” TV's such that these can be read from a distance.
- Alarm Handler:
 - Monitor is wall mounted, and a cable has been acquired.
 - Cabling to miceecserv1,2 is needed with audio.
 - Paolo is working with Pierrick/Henry to get this configured.
- Web Whiteboard
 - Monitors wall mounted last week.
 - Firefox scripts tested for scrolling whiteboard.
 - Now screen needs connecting to TV.
 - Henry is working to get the displays operational.
- Idea:
 - The monitors have “smart” functionality. They can decode streamed video sent over the network.
 - Hypothetically, we could make a Alarm Handler / Web whiteboard video stream..

KVM / Remote Access / Mouse hole

- Within the MLCR, the KVM system can be used to access a number of machines in RR1. This machine is now on the right hand side of the door, shared use with micethin02.
- Mousehole is now inside the RAL DMZ, this means:
 - Only ssh to micenet machines is available (unless explicitly requested).
 - **Ping does not work from Mousehole!**
 - To access ports on a MICE-net machine from outside RAL, it is possible to use a tunnel inside a tunnel..
- Should VNC-KVM access be considered, for the times a machine doesn't boot properly?

Network Switch / Hall Wireless

- The new network switch has been deployed in the MLCR.
- This seems to be working fine.
 - Note: VLANs could have moved.
 - Currently waiting on RAL networks to know which VLANs are assigned to which ports on the switch.
- Old records of network port destinations are being updated by RAL networks.

- Craig has been working to get wireless set-up in the hall.
- Wireless access point is on order.
- Will install in hall to provide all wireless networks currently available in the MLCR.

RR2 / MES

- The new Rack Room is being filled with IOC's and equipment racks.
- Plan to have a thin client also present in RR2
 - Micethin06 has SL6.4 installed.
 - Controls S/W will need installing when the machine is deployed.

- Two old miceopipc's are now present at a workbench on the mezzanine
- Provides a “satellite”, “in hall” place for working, or using equipment.
- Wireless will also be available to this location, for use of personal laptops outside the control room.

- Finally, two laptops which can be used on micenet exist (one is loaded with S/W), and will be available for use anywhere there's a network port.

Spares/Backups

- Survey of the MLCR was made recently.
- Spotted a number of older machines, which nbd. Warranties are coming to an end.
 - Aiming to replace many of these with year end money.
 - Money allocated.
 - Machines TBD.
- Also aiming to replenish a number of spare HDD's + thin clients.

- Backup infrastructure is in place in the MLCR.
- To add your files to the backups see Matt's instructions on:
 - <http://micewww.pp.rl.ac.uk/projects/online/wiki/MICENETBackups>
- These files are backed up daily with rdiffbackup

Backups

- Current backup list:

- Days Old Directory
- 0 trackerctl:/home/epics
- 0 target1ctl:/home/epics/rats
- 0 target1ctl:/home/epics/public_html
- 0 target1ctl:/home/epics/config_backup_In
- 0 target1ctl:/home/epics/Software/MICESoftware/data/TargetController
- 0 target1ctl:/home/epics/Software/MICESoftware/MICETrackerSoftware
- 0 nagios:/var/log/nagios
- 0 nagios:/etc/nagios
- 0 micestore:/root/local-backup
- 0 micestore:/root/Backups
- 0 miceserv1:/var/named/chroot/var/named
- 0 miceserv1:/var/lib/ldap
- 0 miceserv1:/etc
- 0 miceserv1:/backup
- 0 miceonrec02:/home/mice/MAUS
- 0 miceonrec01:/home/mice/MAUS
- 0 datamover02:/root/local-backups
- 0 datamover02:/home/phsrijn/transferRecords
- 0 datamover02:/home/phsrijn/moveFiles
- 0 cagateway1:/home/epics
- 0 cagateway1:/etc

Backups

- “stale” backup list:
- Days Old Directory
 - 866* miceraid1a:/home/daq
 - 866* miceraid1a:/dateSite
 - 725* miceonrec02:/home/mice
 - 368* miceacq08:/home/daq
 - 368* miceacq08:/dateSite
 - 368* miceacq06:/home/daq
 - 368* miceacq06:/dateSite
 - 344* miceecserv:/var/named/chroot/var/named
 - 344* miceecserv:/var/named/chroot/etc
 - 344* miceecserv:/home/epics
 - 170* miceecserv2:/home/repo
 - 108* miceraid5:/home/daq
 - 108* miceraid5:/dateSite
 - 108* miceacq07:/home/daq
 - 108* miceacq07:/dateSite
 - 102* miceraid4:/home/daq
 - 102* miceraid4:/dateSite
 - 101* miceacq10:/home/daq
 - 101* miceacq10:/dateSite

OnCall

- <http://micewww.pp.rl.ac.uk/projects/online/wiki/OnlineOncallExperts>
- Oncall responsibilities laid out
- Now need volunteers (these people have volunteered)
 - Chris Rogers
 - Mike Courthold
 - Henry Nebrensky
 - Durga Rajaram
 - Edward Overton
- Online and software to be combined into single on-call?

Nagios Monitoring

- Monitoring the health of our machines will help us maintain a proactive approach to maintenance
- Nagios is currently in the process of deployment.
 - Deployment to C&M machines is complete.
 - Partial deployment to DAQ machines
 - Datamover machine has nagios installed, but probes need adding to the main interface.
 - Deployment must also occur to micestore and configdb (need to communicate with RAID controller..)
- Goto <https://nagios.micenet.rl.ac.uk> (from inside micenet).

Nagios Monitoring

Nagios[®]

General

- Home
- Documentation

Current Status

Tactical Overview

- Map
- Hosts
- Services
- Host Groups
 - Summary
 - Grid
- Service Groups
 - Summary
 - Grid
- Problems
 - Services (Unhandled)
 - Hosts (Unhandled)
 - Network Outages

Quick Search:

Reports

- Availability Trends
- Alerts
 - History
 - Summary

Current Network Status

Last Updated: Wed Jan 21 23:48:37 GMT 2015
 Updated every 90 seconds
 Nagios® Core™ 3.5.1 - www.nagios.org
 Logged in as *mice*

- [View Service Status Detail For All Host Groups](#)
- [View Status Overview For All Host Groups](#)
- [View Status Summary For All Host Groups](#)
- [View Status Grid For All Host Groups](#)

Host Status Totals

Up	Down	Unreachable	Pending
80	9	0	0
All Problems		All Types	
9		89	

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
205	2	0	39	0
All Problems		All Types		
41		246		

Host Status Details For All Host Groups

Limit Results:

Host	Status	Last Check	Duration	Status Information
HA_PLCC01	DOWN	01-21-2015 23:44:54	3d 12h 11m 23s	CRITICAL - Host Unreachable (172.16.246.180)
HA_PT01	DOWN	01-21-2015 23:44:54	3d 12h 11m 23s	CRITICAL - Host Unreachable (172.16.246.181)
HX_INV01	DOWN	01-21-2015 23:44:54	3d 12h 11m 23s	CRITICAL - Host Unreachable (172.16.246.186)
backup1	UP	01-21-2015 23:45:34	3d 12h 14m 50s	PING OK - Packet loss = 0%, RTA = 0.44 ms
cagateway1	UP	01-21-2015 23:45:34	3d 12h 13m 28s	PING OK - Packet loss = 0%, RTA = 0.13 ms
camhall07	UP	01-21-2015 23:45:34	3d 12h 12m 6s	PING OK - Packet loss = 0%, RTA = 0.80 ms
camhall08	UP	01-21-2015 23:45:34	3d 12h 14m 49s	PING OK - Packet loss = 0%, RTA = 0.70 ms
camhall09	UP	01-21-2015 23:45:34	3d 12h 16m 13s+	PING OK - Packet loss = 0%, RTA = 0.55 ms
camhall10	DOWN	01-21-2015 23:45:04	3d 12h 11m 13s	CRITICAL - Host Unreachable (172.16.246.90)
camhall11	UP	01-21-2015 23:45:34	3d 12h 13m 27s	PING OK - Packet loss = 0%, RTA = 1.07 ms
camhall12	UP	01-21-2015 23:45:34	3d 12h 12m 5s	PING OK - Packet loss = 0%, RTA = 0.60 ms
camhall13	DOWN	01-21-2015 23:45:04	3d 12h 11m 13s	CRITICAL - Host Unreachable (172.16.246.93)
camhall14	UP	01-21-2015 23:45:34	3d 12h 13m 26s	PING OK - Packet loss = 0%, RTA = 0.52 ms
camhall15	UP	01-21-2015 23:45:34	3d 12h 12m 4s	PING OK - Packet loss = 0%, RTA = 0.69 ms
camhall16	UP	01-21-2015 23:45:34	3d 12h 14m 47s	PING OK - Packet loss = 0%, RTA = 0.61 ms

Mock Data Challenge

- Prior to the MDC online support was available in the control room.
 - Helped iron out a long list of outstanding issues.
 - Helped deal with issues as they arose.
- Online systems tested thoroughly during MDC.
- Two issues noted in the MDC Note:
 - MDR-CMP-1 Paul Smith (Online)
Konqueror web browser should work on all computers.
 - MDR-CMP-7 Paul Smith (Online)
The web whiteboard should be mounted.
- Control room is stable. Now just need to polish off all the little things to make running comfortable!

Onwards..

- Online systems are in good shape.
- Still plenty of work to be done before Step IV.
- A number of changes are being made:
 - Paul Smith is leaving MICE.
 - Paolo is coming on-board.
- Continuation of support during setup for running is critical.
 - Ideally a “online” person should be available to help straighten out problems found integrating software.
 - Integration of updates in the control room should be completed with time for debugging/updating documentation.
 - Ideally this should be the week prior to the intended run.

Thanks for listening.