

## July Newsletter

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Greetings all,

Hoping that you are all keeping well and the second half of your year has got off to a great start. I am lucky to be back working with IBM on a number of projects in Australia – looking forward to getting my hands dirty with some POWER10, Ansible, PowerVS, and any other interesting project that comes my way.

A few updates to share

- The Redbooks team got the mark quickly and have released the POWER10 midrange and scale-out redpapers (see below).
- The June POWER10 announcements contained some useful features that have come down from the Enterprise Servers. The August POWER VUG will have practical summary presented by Nigel Griffiths and a yet unannounced developer. While these meetings are at an unpleasant time this side of the world, the replay and slides will be made available.
- The support team has been busy with their updates – both fixes (see below) and useful information designed to reduce the likelihood of you needing to contact support in the first place.

### Quick bites

#### **Microcode Discovery Service MDS for VIOS**

Thanks to IBM Support of preparing a comprehensive guide of the steps to use the Microcode Discovery Service for your VIO Server to check the system and IO adapter microcode on Virtual IO Server(s).

[Link](#)

#### **IBM i messages are too important to miss**

Check out the Help Systems guide on automating your message management. Manage IBM i messages by exception. Messages are leading indicators about your system and applications, so it's important to check them regularly and proactively. This guide shows how you can monitor, filter, escalate, notify, and respond to critical system messages automatically!

[Link](#)

#### **Kubernetes Operators Patterns and Best Practices**

Use operators to manage the lifecycle of multi-cloud, Kubernetes-based applications. With Kubernetes, organisations can automate the deployment and management of distributed, multi-cloud applications. While Kubernetes includes many capabilities to manage workloads, it is not aware of operational requirements of specific applications, meaning manual tasks can still become a burden. Fortunately, Kubernetes is a platform designed for extension, and its automation capabilities can be augmented to encapsulate domain specific knowledge. Kubernetes operators, which extend Kubernetes in a consistent

way, allow software developers to capture in code the human knowledge of how to deploy and manage specific enterprise applications.

[Link](#)

## **IBM Support Insights**

Preventive maintenance insights with easy-to-use portal

Included with your IBM Technology Support Services maintenance agreement, IBM Support Insights offers actionable indicators for preventive maintenance, helping to improve IT reliability and streamline asset management for IBM and other OEM systems (including Cisco, HP, Oracle, Dell, Juniper, NetApp, EMC and more). IBM Support Insights helps reduce gaps in support coverage, enabling you to simplify management of your entire IT estate across multiple vendors.

[Link](#)

## **Automating IBM Systems with Ansible Automation Platform Webinar**

It's been understated, but IBM has been very involved with Red Hat's Ansible Automation Platform. This webinar will look at how Ansible can be used to automate IBM Systems from the Mainframe to the IBM Spectrum Virtualize. Speaker: Ian Wright.

[Webinar](#)

[Slides](#)

## **Coming soon**

- **ASEAN AIX/IBM i/Linux on Power Meetup Group**

The next meeting will be held on Friday, July 29, 2022 at 12:00 UTC +10

In the next meeting we will be presenting:

**Security concerns are a roadblock for Open Source databases adoption for mission critical workloads, but is there a solution?**

Presenter: **Anand Subramanian**, Principal Solutions Architect (Fujitsu, Australia)

Open Source can help accelerate application modernisation initiatives but there remains a data security concern that prevents adoption for mission critical applications. Come learn how FUJITSU Enterprise Postgres (FEP) delivers a secure hybrid cloud ready database solution that meets enterprise demands for resilience, availability, scalability and compliance to address this technology gap.

**Update on IBM's new Power10 Scale-out and Mid-range server features**

Presenter: **KeeWee Tan**, Brand Technical Specialist – Power Systems, Singapore

**Linux and Power updates from Development**

Presenter: **Michael Neuling**, Australian Development labs

In this presentation, Michael will give an overview of some of the recent technical development related to Linux and POWER. He'll cover topics including core CPU features, IO, performance, RAS, security and distributions.

[Meetup](#)

[IBM Community](#)

- **PowerVUG - New Power10 Scale-out and Midrange Systems**

Friday, 5 Aug 2022 01:00 UTC +10

Join the August VUG where you will be presented with the newly announced Power10 Scale-out and Midrange Systems. The session will be presented by **Nigel Griffiths** and a special guest from our Power10 design team.

Nigel is a long-time Power advocate, an outstanding presenter, and hosts his own Power Youtube channel. The presenters will discuss the new features available for the first time in Scale-Out and Midrange systems, including transparent memory encryption and P10 specific accelerators.

If you cannot join the presentation will be available within a couple of days of the VUG.

[Register](#)

## Redbooks and Redpapers

- **IBM DS8000 Thin Provisioning (Updated for Release 9.3)e**, draft Redpaper, revised: June 21, 2022  
[Link](#)
- **IBM AIX and Enterprise Cloud Solutions**, Redbook, June 28, 2022 ISBN: 073846063  
[Link](#)
- **Cyber Resiliency with IBM QRadar and IBM Spectrum Virtualize for Public Cloud on Azure with IBM Copy Services Manager for Safeguarded Copy**, Redpaper, Published: July 8, 2022 ISBN: 0738460621  
[Link](#)
- **IBM Power S1014, S1022s, S1022, and S1024 Technical Overview and Introduction**, draft Redpaper, Revised: July 15, 2022  
[Link](#)
- **IBM Power E1050 Technical Overview and Introduction**, draft Redpaper, Published: July 11, 2022  
[Link](#)
- **IBM Power S1014, S1022s, S1022, and S1024 Technical Overview and Introduction**, draft Redpaper, Revised: July 19, 2022  
[Link](#)

## IBM alerts and notices

### AIX alerts:

- **LI82674: TO DISABLE RSA CIPHERS FOR HTTPS**

Gateway port 9443 supports weak ciphers resulting in security vulnerabilities. Fix is to disable TLS\_RSA\_WITH\_AES\_128\_GCM\_SHA256 and TLS\_RSA\_WITH\_AES\_256\_GCM\_SHA384 ciphers of HTTPS protocol.

[Link](#)

- **LI82672: RECEIVE RFC ERROR  
COM.IBM.DESPI.EXCEPTION.DESPIEXCEPTION: EXCEPTION WHILE  
GETTING ACCESSOR**  
Symptom is to get a string of errors including:  
2022-02-24 19:16:29.102 FINE [T-7499] [CallbackEventSender]  
com.ibm.j2ca.cci.client.exception.WSAInvocationException:  
Status still open.  
[Link](#)
- **AIX is vulnerable to a denial of service due to lpd (CVE-2022-22444)**  
A vulnerability in the AIX lpd printer daemon (the remote print server on AIX) could allow a local user with elevated privileges to cause a denial of service (CVE-2022-22444).  
[Link](#)
- **LI82675: SAP IDOC METADATA IMPORTCONFIGURATION FAILING**  
Sap Idoc Metadata ImportConfiguration is failing with "OPTION\_NOT\_VALID  
Message 000 of class SAIS type E, Par[1]: DB\_Error, Par[2]: EDISDEF"  
[Link](#)
- **AIX 7.3 HIPERS, APARs and Fixes:**
  - **IJ41122 and IJ40960: OLD FILESETS LEFT AFTER MIGRATED TO AIX  
7.3 VIA NIMADM**  
After migration to AIX 7.3 via NIMADM, below old AIX 7.2 filesets may left in the ODM.  
[IJ41122](#)  
[IJ40960](#)
  - **IJ41011: NIMADM FIXES FOR MIGRATION TO 7.2**  
Some software from 6.1 may not be totally removed after a nimadm migration.  
[Link](#)
  - **IJ41190: MEMORY LEAK IN SOCKET STRUCTURES**  
A customer may run out of network memory resources causing applications like 'ifconfig' to fail.  
[Link](#)
  - **IJ41008: RESTVG THROWS DUPLICATE PKS ERRORS IF NOT  
ACTIVE**  
Duplicate error message during restore of datavg when PKS is not supported or not initialized on the system.  
[Link](#)
  - **IJ41007: LIVEUPDATE.TEMPLATE HAS INCORRECT INFORMATION  
ABOUT LPAR\_ID**  
In /vsar/adm/ras/liveupdate.template file for lpar\_id it says:  
hmc:  
# lpar\_id = <lpar id> Indicates the desired partition id for the  
# Surrogate. If the specified lpar\_id is already in use, then the  
# first available lpar\_id will be used.

It should say like the online documentation

<https://www.ibm.com/docs/en/aix/7.2?topic=planning-configuring-resources-live-update>

[Link](#)

- **IJ41088 and IJ41094: CRASH ON P10 AIX LPAR TESTING ORACLE RAC**

Customer may experience a kernel crash on p10 platforms. This is an example crash call stack:

```
rtpool_put+00002C
rtfree@AF60_34+000114
udp_send+0011D0
esendit+000CBC
_ensendmsg+000AA0
syscall+000244
```

[IJ41088](#) and [IJ41094](#)

- **IJ41009: NIMADM FAILED BECAUSE NOT ENOUGH SPACE IN /TMP FILE SYSTEM**

nimadm failed with error similar to the following:

Creating client boot image.

/tmp/bosboot\_64357068\_18395/unix\_6311.Z: There is not enough space in the file system. 0301-158 bosboot: mkboot failed to create

/alt\_mig.client.boot. 0301-165 bosboot: WARNING! bosboot failed - do not attempt to boot device. 0505-180 nimadm: Error creating client boot image.

[Link](#)

- **IJ40837: GSSD / KRB5 MEMORY LEAKS**

The gssd daemon may grow continually in memory usage until it core dumps.

[Link](#)

- **IJ40838: NFS4 MOUNT FAILS WITH NETAPP SERVER DUE TO SUPPATR\_EXCLCREAT**

AIX NFS4 client can fail to mount from NetApp NFS server if mount request includes a "Suppatr\_ExclCreat" attribute request.

[Link](#)

- **IJ40978: ADD FSF\_EPS TO EFSMGR FOR NON-DEFAULT UMASK ENVIRONMENTS**

If EFS was enabled by root user with 027 umask, efsmgr fails for non-root users.

```
# efsmgr -e test.txt
```

Problem initializing EFS framework.

Please check EFS is installed and enabled (see efsenable) on your system.

Error was: Error 0x80700009 occurred.d.

Local fix

```
# setsecattr -c secflags=FSF_EPS /usr/sbin/efsmgr
```

```
# trustchk -u /usr/sbin/efsmgr secflags=FSF_EPS
```

[Link](#)

- **IJ41015: AIX NPIV CLNT [CRASH@EMFSC STRATEGY SANITY\(\)](#)**  
System crash.

[Link](#)

- **IJ41016: WRITESRV IS STUCK CONSUMING CPU OR CORE DUMPS**

A child process of the main writesrv daemon could get stuck in a loop, consuming excessive CPU. The stack

```
[100019A0]checkhandle+000040 (00000018 [??])
```

```
[10001560]setupunixsock+0000C0 (??, ??, ??)
```

```
[100024DC]rwrite+00005C (??)
```

```
[10000640]main+000220 (??, ??)
```

```
[10000168]__start+000068 ()
```

It is possible that a core dump could occur without seeing excessive CPU consumption. This core dump most likely will occur in the updatesrv or sigclfd functions, but could occur elsewhere.

Local fix

The writesrv processes that are consuming CPU can be killed. Then, stopsrc the main writesrv process, delete entries in the /var/spool/writesrv directory, and restart writesrv.

[Link](#)

- **IJ40980: PIOMKJETD GIVES ERROR FOR MEMBER OF THE PRINTQ GROUP**

If a non-root user who belongs to the 'printq' group tries to create a Jet Direct print queue, an error related to /etc/bootptab will be seen:

```
$ /usr/lib/lpd/pio/etc/piomkjetd mkpq_jetdirect -p  
'generic' -D asc -q 'test179' -h 'test179' -e  
'test179' -n 'ether' -x '9100'
```

```
/etc/bootptab does not exist or does not have write  
permission!
```

```
Added print queue 'test179'.
```

This is because members of 'printq' group do not have write access to this file.

Local fix

Make sure enhanced\_RBAC is turned on, then add piomkjetd to the privcmds database with:

```
setsecattr -c accessauths=ALLOW_GROUP \  
innateprivs=PV_DAC_W secflags=FSF_EPS \  
/usr/lib/lpd/pio/etc/piomkjetd
```

Be sure to run 'setkst' after this.

[Link](#)

- **IJ40981: NIM SAVEVG OR MKSYSB ESTIMATED SIZE COMPUTATION CAN BE WRONG**

When using exclude files that uses regex having special meaning like "^" start with or "\$" end with, the nim operation to create the savevg or mksysb will have

wrong evaluation of the estimated size. It might also fail if the estimated size is greater than the available space.

[Link](#)

- **IJ40983: TCP/UDP APPS MAY NOT WORK WITH IPSEC IPV6 TCP/UDP TUNNELS**

This is applicable to IPv6 tunnels. IPsec tunnels with specific port or protocols may not allow traffic

[Link](#)

- **IJ41160: LPAR CRASHED @ABEND\_TRAP+000000**

System crash with following stack trace:

```
Y0002CBC0"abend_trap+000000 ()
Y0011FCA4"IPRA.$do_trace_control+000264 (??, ??, ??, ??)
Y001218B0"rasp_trace_control+0001F0 (??, ??, ??)
Y00041BFC"IPRA.$rasp_control+00057C (??, ??, ??, ??, ??, ??)
Y00041E38"ras_path_control_common+0000F8 (??, ??, ??, ??, ??)
```

[Link](#)

- **IJ41162: SYSTEM CRASH**

LPAR crashes with "V\_PRERELALIAS+00026"

[Link](#)

- **IJ41164: LSGROUP MAY NOT RESOLVE NESTED GROUPS FOR AD**

If using nested groups on Windows AD - for example:

ParentGroup contains members: ChildGroup1, ChildGroup2  
ChildGroup1 and ChildGroup2 contain other child groups  
and users

...then, 'lsgroup ParentGroup' may show no members, even though we expect it to contain the users that belong to it's child groups.

There may also be issues where doing 'lsgroup' on one of the child groups (which puts it in the secdapclntd cache), and then 'lsgroup' on its parent group, shows an odd group member named something like 'me=groupname'.

[Link](#)

- **IJ41067: LV ENCRYPT IN ROOTVG PKS FAIL IN PREVIEW**

PKS migration will not work

[Link](#)

- **IJ40930: ESA CODE CHECKINS FOR AIX73B**

[Link](#)

- **IJ41170: LKU FAILS TO MOUNT MOUNT GUARDED FILESYSTEMS**

LKU may fail to mount filesystems with mount guard enabled.

```
SLVUPDMCR 06/03/2022-09:55:05.157 DEBUG lvupdt.c - 1880 -
```

```
lvup_doForkCmdEnv: '/usr/bin/sh -c /usr/sbin/chroot
```

```
/old/lvup_mnt/sbin/mount -o rox,log=/dev/loglv00 -- /dev/fslv00 /data' stderr  
and live update logs:
```

```
mount: /dev/fslv00 on /data
```

```
0506-365 Cannot mount guarded filesystem.
```

```
The filesystem is potentially mounted on another node.
```

Local fix

Disable mount guard:

```
# chfs -a mountguard=no <FS>
```

[Link](#)

- **IJ41066: A POTENTIAL SECURITY ISSUE EXISTS**

This APAR addresses a potential security issue. Any relevant information will be released via My Notifications.

<https://www.ibm.com/support/mynotifications>

[Link](#)

- **IJ41212: IPSEC:RESPONDER SHOULD NOT PERFORM RETRANSMISSION.**

Tunnels would not get established if the network is dropping packets.

[Link](#)

- **IJ41215: SLOW NPIV I/O RESPONSE ON AIX LPAR BACKED BY QLOGIC HBA**

Slow NPIV I/O response on AIX LPAR under high IO, the FC errors continued streaming until a reboot.

On VIOS, the qlfscsi devices' any\_waiting is negative:

```
(0)> qlfscsi -d fscsi13 | grep any_waiting  
long long any_waiting = 0xFFFFFFFFFFFFFFF71
```

[Link](#)

- **IJ41171: CLUSTER/SSP DATA ARE NOT UPDATING IN SSP GET CALL**  
Failed to get the Cluster/SSP details when the cluster is removed and created with new name.

[Link](#)

- **IJ41172: HPMCOUNT FAILING DURING LIVE UPDATE**

hpmcount may display:

```
ERROR - pm_tstart_mygroup: : PMU Operation not permitted.  
for authorized users if started during Live Update.
```

[Link](#)

- **IJ41173: TRCRPT COMMAND DOES NOT OUTPUT VMMSIBITS FOR SOME HOOKS.**

run trcrpt with 1052 hook id trcrt show ??? for vmmsibits

[Link](#)

- **IJ40935: DELETING QUOTA FILE WITHOUT DISABLING SUBSYSTEM MAY CAUSE HANG**

System may hang if the user attempts to delete quota files without disabling the quota subsystem, while creating files in the directory the quota files reside.

[Link](#)

- **IJ41298: SUPPORT FOR OPENXL SYMBOL VISIBILITY WITH LTO**

OpenXL symbol visibility is not observed when using -flto.

[Link](#)



- **IJ41177: LPAR CRASHED @GIDS\_OK+000060**  
System might crash with stack:  
gids\_ok  
ip\_output\_post\_fw  
ipoutput,  
[Link](#)
- **LI82664: ADD NEW GRANT TYPE CLIENT\_CREDENTIALS TO OAUTH**  
Add new GRANT TYPE client\_credentials to OAUTH grant type support lists.  
This Grant type is required to support Coupa authentication with OAUTH  
[Link](#).

## AIX Notices:

- **Get a rPerf performance rating for your AIX LPAR**  
Run this script of your AIX server to calculate an estimated rPerf rating for that particular Logical Partition (LPAR) also called virtual machine (VM). The estimate is based on the number CPUs and Machine-Type-Model (MTM) calculated from the official documented rPerf ratings.  
[Link](#)
- **Power10 Servers as Infographics**  
IBM Power Systems in particular the Power10 server range presented as Infographics.  
[Link](#)

## PowerHA alerts:

- **PowerHA Volume group major number mismatch/conflict warning during sync activity and starting cluster services.**  
Shared volume groups managed by the PowerHA cluster must have symmetrical major numbers across all the nodes in the cluster. When the volume groups are varied-on with a different major number, PowerHA generates the following warning during cluster verify and synchronization activity and during starting cluster services.  
Example 1  
WARNING: Volume group major numbers conflict for VG: ha4vg on nodes halab13 (503) and halab14 (504).  
  
Example 2  
WARNING: The major number for VG ha4vg is not the same on all nodes. This may cause trouble in the future if NFS exports are added to the resource group. To fix it, export and re-import the volume group on all nodes with the same major number or use C-SPOC.  
If there are no plans to use NFS exports managed by PowerHA, this warning can be ignored.  
[Link](#).

**ESS Notices:**

- **ESS cumulative fixpacks**
  - [ESS DAE UNIFIED-6.1.3.1-ppc64LE-EMS.](#)
  - [ESS DME UNIFIED-6.1.3.1-ppc64LE-EMS.](#)

Keep safe and hope that you will join us at the July ASEAN Power meetup.  
Red, Belisama