

January Newsletter

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Greetings all,

Wishing you a happy Western '24 and trust that you are refreshed and ready for what looks like being a hectic year..

A few updates to share:

- Thanks to Libby and the IBM Champion team for recognising my contributions and appointing us as an IBM Champion (again!). Keen to keep involved and keep contributing to the Power/AIX/Linux communities, and privileged to be part of such an amazing group. [Champions of 24](#)
- What's new in PowerVS, by Bogdan Savu (Cloud infrastructure architect at IBM) [Link](#)
- A New ansible collection for AIX has been published. Note now that there are collections for HMC; VIOS; SAP on Power Linux; Oracle on Power and IBM I.

Quick bites

SC23 conference

Presentations from this event can now be downloaded. Include sessions on: IBM Storage Scale System 6000 (updated): Storage Scale ECE and FS Core Optimisations for AI workload in CSP and Hyperscaler; University of Queensland – High performance S3 access with IBM Storage Scale; ECE and IBM Storage Fusion, Performance Update and many more...).

[Link](#)

AIX Virtual Fibre Channel Enhancement

Chris Gibson posted an great summary of the new AIX 7.3 command (`vfcstat`) and covered some of the updates to the `fcstat` command.

[Link](#)

Displaying the Fibre channel HBA SFP information with AIX/VIOS

by Vinayak karne, Yadagiri Rajaboina, Samyuktha Pantham

This article discusses using `fcstat` to display vital diagnostic information from an HBA SFP.

[Link](#)

Modernise in place with IBM Power and Red Hat

A good summary of how Power can manage data more efficiently, make faster decisions and get better insights

[Link](#)

A new machine to power the future of semiconductor innovation

New York state announced a partnership with IBM, Micron, and other industry players to invest \$10 billion into expanding the Albany NanoTech Complex with a new cutting-edge

High NA EUV Centre that will drive the next decade of semiconductor technology innovations.

[Link](#)

In case you missed

- **Introducing the IBM Storage Scale System 6000 (11/1/24)**

IBM recently announced its newest IBM Storage Scale solution, the Storage Scale System (SSS) 6000. This new cloud-scale global data platform has the same ease-of-management as the ESS 3500, but with improved processing power, drive capacity, and performance. Speaker: Shu Mookerjee, Senior Storage Technical Specialist, ATG

[Link](#)

- **Power VUG (January 2024)**

The January session covered AI on Power10, with use cases, available programmes and pointers to useful demonstrations.

[Link](#)

[Session](#)

[Materials](#)

Redbooks and Redpapers

- **IBM PowerHA SystemMirror for AIX Cookbook**, Redbook, 31 January 2024

[Link](#)

- **Implementation Guide for IBM Elastic Storage System 3500**, Redbook, 06 January 2024

[Link](#)

IBM alerts and notices

Security bulletins:

- **AIX is vulnerable to denial of service vulnerabilities**

UPDATED: (Additional iFixes are now available for AIX 7.2 TL5 SP5, 7.3 TL0 SP2, 7.3 TL0 SP3, 7.3 TL1 SP1, and VIOS 3.1.3.21, 3.1.3.30, and 3.1.4.10. Both the original and new iFixes address the kernel security vulnerabilities mentioned in the bulletin, but the new iFixes also address the previously released HIPER bulletin:

<https://www.ibm.com/support/pages/node/6857545>) Vulnerabilities in the AIX kernel and kernel extensions could allow a non-privileged local user to cause a denial of service (CVE-2023-45175, CVE-2023-45173, CVE-2023-45169, CVE-2023-45171).

Vulnerability Details

CVEID: CVE-2023-45175- IBM AIX could allow a non-privileged local user to exploit a vulnerability in the TCP/IP kernel extension to cause a denial of service.

CVEID: CVE-2023-45173- IBM AIX could allow a non-privileged local user to exploit a vulnerability in the NFS kernel extension to cause a denial of service.

CVEID: CVE-2023-45169- IBM AIX could allow a non-privileged local user to exploit a vulnerability in the pmsvcs kernel extension to cause a denial of service.

CVEID: CVE-2023-45171 - IBM AIX could allow a non-privileged local user to exploit a vulnerability in the kernel to cause a denial of service.

Affected Products and Versions

Affected Product(s)	Version(s)
AIX	7.2
AIX	7.3
VIOS	3.1

[Link](#)

- **AIX is vulnerable to a denial of service (CVE-2023-5678, CVE-2023-6129, CVE-2023-6237) and an attacker may obtain sensitive information (CVE-2023-5363) due to OpenSSL**

Vulnerabilities in OpenSSL could allow a remote attacker to cause a denial of service (CVE-2023-5678, CVE-2023-6129, CVE-2023-6237) or obtain sensitive information (CVE-2023-5363). OpenSSL is used by AIX as part of AIX's secure network communications.

Vulnerability Details

CVEID: CVE-2023-5363 - OpenSSL could allow a remote attacker to obtain sensitive information, caused by an incorrect cipher key and IV length processing during the initialisation of some symmetric ciphers. By sending a specially crafted request, an attacker could exploit this vulnerability to obtain sensitive information, and use this information to launch further attacks against the affected system.

CVEID: CVE-2023-5678 - Openssl is vulnerable to a denial of service, caused by a flaw when using DH_generate_key() function to generate an X9.42 DH key. By sending a specially crafted request, a remote attacker could exploit this vulnerability to cause a denial of service condition.

CVEID: CVE-2023-6129 - OpenSSL is vulnerable to a denial of service, caused by a flaw in the POLY1305 MAC (message authentication code) implementation. By sending a specially crafted request, a remote attacker could exploit this vulnerability to cause a denial of service condition.

CVEID: CVE-2023-6237 - OpenSSL is vulnerable to a denial of service, caused by a flaw in the handling of RSA public keys by the EVP_PKEY_public_check() function. By persuading a victim to sue a specially crafted RSA public keys for verification, a remote attacker could exploit this vulnerability to cause long delays, and results in a denial of service condition.

Affected Products and Versions

Affected Product(s)	Version(s)
AIX	7.2
AIX	7.3
VIOS	3.1

VIOS 4.1

The following fileset levels are vulnerable:

Fileset	Lower Level	Upper Level
openssl.base	1.0.2.500	1.0.2.2107
openssl.base	1.1.1.0	1.1.1.2200
openssl.base	1.1.2.0	1.1.2.2200
openssl.base	20.13.102.1000	20.16.102.2108
openssl.base	3.0.0.0	3.0.10.1002

Note:

A. 0.9.8, 1.0.1 OpenSSL versions are out-of-support. Support for OpenSSL 1.0.2 version ended in December 2023. Customers are advised to upgrade to OpenSSL 1.1.1 or 3.0 version.

[Link](#)

AIX HIPER:

- **APAR IJ49570 Unable to boot after update to AIX 7200-05-07-2346 or VIOS 3.1.4.31**

An update to AIX 7200-05-07-2346 or VIOS 3.1.4.31 may encounter the following bosboot/savebase errors:

```

bosboot: Boot image is 61489 512 byte blocks.
0301-162 bosboot: savebase failed with /dev/hdisk0.
0301-165 bosboot: WARNING! bosboot failed - do not attempt to boot
device.
  
```

After encountering this bosboot failure, the next attempt to boot the system may fail.

Recommended Action

As of 1/26/2024 we have updated the AIX 7200-05-07-2346 and VIOS 3.1.4.31 Service Packs on Fix Central to include IJ49570.

Use the updated version of the SP for updates to avoid this issue.

- If the system was rebooted after seeing this error and booted successfully, bosboot/savebase should now complete without error, and no further mitigation or fix for IJ49570 is needed.
- If the system was rebooted after seeing this error and failed to boot, please contact IBM Support for help recovering.

[Link](#)

PowerSC alerts:

- **Multiple vulnerabilities affect PowerSC and PowerSC MFA**

Vulnerability Details

CVEID: CVE-2023-50939 - IBM PowerSC uses weaker than expected cryptographic algorithms that could allow an attacker to decrypt highly sensitive information.

CVEID: CVE-2023-50326 - IBM PowerSC uses an inadequate account lockout setting that could allow a remote attacker to brute force account credentials.

CVEID: CVE-2023-50325 - IBM PowerSC uses Cross-Origin Resource Sharing (CORS) which could allow an attacker to carry out privileged actions and retrieve sensitive information as the domain name is not being limited to only trusted domains.

CVEID: CVE-2023-50933 - IBM PowerSC is vulnerable to HTML injection. A remote attacker could inject malicious HTML code, which when viewed, would be executed in the victim's Web browser within the security context of the hosting site.

CVEID: CVE-2023-105452 - IBM PowerSC uses weaker than expected cryptographic algorithms that could allow an attacker to decrypt highly sensitive information.

CVEID: CVE-2023-50327- IBM PowerSC uses insecure HTTP methods which could allow a remote attacker to perform unauthorised file request modification.

CVEID: CVE-2023-50936 - IBM PowerSC does not invalidate session after logout which could allow an authenticated user to impersonate another user on the system.

CVEID: CVE-2023-50940 - IBM PowerSC uses Cross-Origin Resource Sharing (CORS) which could allow an attacker to carry out privileged actions and retrieve sensitive information as the domain name is not being limited to only trusted domains.

CVEID: CVE-2023-50934 - IBM PowerSC uses single-factor authentication which can lead to unnecessary risk of compromise when compared with the benefits of a dual-factor authentication scheme.

CVEID: CVE-2023-50941 - PowerSC does not provide logout functionality, which could allow an authenticated user to gain access to an unauthorised user using session fixation.

CVEID: CVE-2023-50935 - IBM PowerSC fails to properly restrict access to a URL or resource, which may allow a remote attacker to obtain unauthorised access to application functionality and/or resources.

CVEID: CVE-2023-50938 - IBM PowerSC could allow a remote attacker to hijack the clicking action of the victim. By persuading a victim to visit a malicious Web site, a remote attacker could exploit this vulnerability to hijack the victim's click actions and possibly launch further attacks against the victim.

CVEID: CVE-2023-50328 - IBM PowerSC may allow a remote attacker to view session identifiers passed via URL query strings.

CVEID: CVE-2023-50962 - IBM PowerSC MFA does not implement the "HTTP Strict Transport Security" (HSTS) web security policy mechanism.

Affected Products and Versions

Affected Product(s)	Version(s)
PowerSC	1.3
PowerSC	2.0
PowerSC	2.1

The vulnerabilities in the following filesets are being addressed:

Fileset	Lower Level	Upper Level
powerscStd.uiServer	1.3.0.4	2.1.0.6
powerscStd.uiAgent	1.3.0.4	2.1.0.6
powerscMFA.server	1.3.0.4	2.1.0.6

[Link](#)

AIX APARs:

- **IJ49694: CORRECT DEV/NULL TO /DEV/NULL IN ALT_DISK_COPY.SH, 1174724**
Error encountered during alt_disk_copy due to an inaccurate dev null pathway.
[Link](#)
- **IJ49676: CRL DOWNLOAD FAILS AFTER CHANGE IN CERTIFICATE SERVER**
After a change of the CRL URL on the certificate server emgr_check_ifixes fails with:
[Link](#)
- **IJ49693: AVOID ATTENTION MSG**
Notification while applying a substantial efix via the nimadm command.
[Link](#)
- **IJ49686: THE DEFAULT DOWNLOAD PATH OF EMGR_CHECK_IFIXES IS /TMP/IFIX**
The manual page of emgr_check_ifixes shows the default path
[Link](#)
- **IJ49704: GDLC IN ETHERCHANNEL ENVIRONMENT, MAY NOT WORK PROPERLY.**
When using GDLC in etherchannel teaming environment, "Response TEST" may not be sent.
[Link](#)
- **IJ48558: MAKE SECLDAPCLNTD SERVER CONNECTION TIMEOUT ADJUSTABLE**
If secldapclntd cannot connect to an LDAP server listed in ldap.cfg, it will take 75 seconds for this connection
[Link](#)
- **IJ42703: LDAP NESTED GROUP DELAYS DUE TO NO CACHING APPLIES TO AIX 7200-05**
If using a complex set of nested groups, with a large number of group members in the groups, there could
[Link](#)
- **IJ49721: NDD_TRACE HOOKS ARE NOT CLEARED WHEN STOP IPTRACE**
When stop iptrace, the ndd_trace hooks are not being cleared
[Link](#)

- **IJ45010: ERRLOG FROM PFCDD ON FAILURE TO INVALIDATE THE DATA. APPLIES TO AIX 7200-05**
When cache is enabled, errpt entries shows for temporary memory failures.
[Link](#)
- **IJ49702: MAKE SECLDAPCLNTD SERVER CONNECTION TIMEOUT ADJUSTABLE**
If secldapclntd cannot connect to an LDAP server listed in ldap.cfg, it will take 75 seconds for this connection
[Link](#)
- **IJ45657: CHVG USAGE ERROR WHEN CALLED FROM ALT_ROOTVG_OP -W APPLIES TO AIX 7200-05**
After cloning a rootvg the WakeUp of the alternate rootvg fails with a usage error for 'chvg':
[Link](#)
- **IJ48040: NIM MASTER AND CLIENT CONN OK,NIM CMDS ARE FAILING APPLIES TO AIX 7200-05**
Using nimsh secure, encrypted communications fail between NIM master and client.
[Link](#)
- **IJ44439: FDINFO_REOPEN() RETURNS ENOENT APPLIES TO AIX 7100-05**
LKU failure with fdinfo_reopen() returning ENOENT if the customer upgrades from 7200-04-02 to 7200-05-04
[Link](#)
- **IJ48038: NIM -O SHOWRES WITH FILESET ATTRIBUTE THROWS ERROR ON LPP APPLIES TO AIX 7200-05**
nim -o showres with fileset attribute throws error on lpp
[Link](#)
- **IJ47839: LDATA_DESTROY CALLED AFTER FAILED LDATA_CREATE CAUSES AN ASSERT APPLIES TO AIX 7200-05**
When opening a mirrored logical volume with active MWC, system may crash.
[Link](#)
- **IJ46872: SYSTEM CRASHED IN AIX_OFED_DMA_PAGE_POOL_ALLOC_PAGE() APPLIES TO AIX 7200-05**
System may crash with following stack: (24)> f 5276
[Link](#)
- **IJ45286: EFI DIRECTORIES NOT REMOVED AFTER MIGRATION APPLIES TO AIX 7200-05**
When a system is migrated the old Ifix directories in /usr/emgrdata/efixdata are not removed.
[Link](#)
- **IJ46855: VFC ADAPTER RESET AFTER MIGRATION UPON ACA CONDITION FROM APPLIES TO AIX 7200-05**
applications may see a larger downtime after migration if local unit aka SCSI disk sends a SCSI task response with

- [Link](#)
IJ47741: LKU: LIVE UPDATE MAY HANG IN BLACKOUT WHILE DOING "MKPS" APPLIES TO AIX 7200-05
Live Kernel Update may hang in blackout while creating NFS swap space
- [Link](#)
IJ46490: IANA OLSON TIMEZONE RULES FILE UPDATES FOR 2023C VERSION. APPLIES TO AIX 7200-05
Updating timezone data files to latest version
- [Link](#)
IJ47690: LLDPD DAEMON IS CRASHING ON ADDING A ETHERCHANNEL APPLIES TO AIX 7200-05
lldpctl command may fail to to add etherchannel.
- [Link](#)
IJ47355: IPSEC IPSEC DH GROUP 19 INCORRECTLY SETS DH_TYPE TO DH_MODP APPLIES TO AIX 7200-05
If IPsec DH group 19 is selected tunnel will fail to renegotiate
- [Link](#)
IJ46102: ERRLOG FROM PFCDD ON FAILURE TO INVALIDATE THE DATA. APPLIES TO AIX 7200-05
When cache is enabled, errpt entries shows for temporary memory failures.
- [Link](#)
IJ45964: IPREPORT FORMATTING TCPDUMP TIMESTAMPS INCORRECTLY APPLIES TO AIX 7100-05
When ipreport formats a capture file written by tcpdump it incorrectly shows the fraction of the second.
- [Link](#)
IJ47833: IN ETHERCHANNEL-TEAMING MODE POSSIBLE TO ADD SAME ADAPTER NAME APPLIES TO AIX 7200-05
When Etherchannel configured in Teaming mode its possible to add the same last adapter multiple times after deleting it from a team
- [Link](#)
IJ48482: A POTENTIAL SECURITY ISSUE EXISTS APPLIES TO AIX 7200-05
This APAR addresses a potential security issue. Any relevant information will be released via My Notifications.
- [Link](#)
IJ46854: IO PATH TIMEOUT AND IO FAILURES VFC MULTI-QUEUE ON AIX APPLIES TO AIX 7200-05
IO workloads can stop abruptly with VFC multi-channel adapter on high end systems with large number of processors.
- [Link](#)
IJ48479: CDPD DOES NOT ADD MULTICAST ADDRESS DURING PORT ADD OPERATION APPLIES TO AIX 7200-05
Port information was not available in case of SRIOV VF interfaces.

- [Link](#)
IJ47597: A POTENTIAL SECURITY ISSUE EXISTS APPLIES TO AIX 7200-05
This APAR addresses a potential security issue. Any relevant information will be released via My Notifications.
- [Link](#)
IJ46088: LOGICAL VOLUME DEVICE DRIVER (LVDD) PERFORMANCE IMPROVEMENTS APPLIES TO AIX 7200-05
Logical Volume device driver (LVDD) performance improvements
- [Link](#)
IJ48481: A POTENTIAL SECURITY ISSUE EXISTS APPLIES TO AIX 7200-05
This APAR addresses a potential security issue. Any relevant information will be released via My Notifications.
- [Link](#)
IJ48606: LPAR CRASHED @TCP_TRACE+00009C APPLIES TO AIX 7200-05
System may crash when tcp_nddebug network option is set to 0. With following stack trace:
- [Link](#)
IJ48355: CREATE_OVA CREATED IMAGE WILL NOT IMPORT INTO POWERVC APPLIES TO AIX 7200-05
Incapable of utilizing the OVA image with PowerVC.
- [Link](#)
IJ44503: LSUSER MAY NOT DISPLAY ALL OF AN LDAP USER'S GROUPS APPLIES TO AIX 7200-05
If an LDAP user's distinguished name contains an asterisk all of the groups may not display.
- [Link](#)
IJ48478: CHNFSMNT CAN INCORRECTLY MODIFY OPTIONS IN /ETC/FILESYSTEM APPLIES TO AIX 7200-05
chnfsmnt adds extra options characters in /etc/filesystem
- [Link](#)
IJ47640: LPAR CRASH DURING INTENSE WORKLOAD AT LVM LAYER APPLIES TO AIX 7200-05
LPAR at 7200-05 can crash with intensive LVM workload
- [Link](#)
IJ46798: .VI_HISTORY FILE IS NOT CREATING AUTOMATICALLY APPLIES TO AIX 7200-05
The .vi_history file have been deleted and now the vi command is not creating the .vi_history file
- [Link](#)
IJ45962: ICONV UCCINIT CORE DUMPS IF UCS TABLE PERMISSIONS ARE RESTRICT APPLIES TO AIX 7100-05

If permissions are restricted for a UCS table, the command

[Link](#)

- **IJ47971: MEMORY LEAK OR SYSTEM CRASH WHEN USING CACHED ROUTES APPLIES TO AIX 7200-05**

Cached routes at AIX 7200-05 may result in a memory leak or system crash.

[Link](#)

- **IJ45256: SNAP -A (WITHOUT N) GIVE ERRORS ON CHECKING SPACE WITH NIM APPLIES TO AIX 7200-05**

snap -a Checking space requirement for general

[Link](#)

- **IJ47888: IO ERRORS SEEN AFTER IO RESPONSE DROP AND WITH HOST CRASH APPLIES TO AIX 7200-05**

sending port logout fails and no further action is taken when queue is closed. I/O s get timeout

[Link](#)

- **IJ47868: APPLYING BOS.RTE.SERV_AID UPDATE MAY LOOP INFINITELY APPLIES TO AIX 7200-05**

When updating the bos.rte.serv_aid fileset, it's possible for an infinite loop to occur.

[Link](#)

- **IJ47830: ERRORS OBSERVED DURING CACHE.MGT FILESET INSTALLATION. APPLIES TO AIX 7200-05**

No functional impact, only error messages are seen during installation.

[Link](#)

- **IJ47062: TAIL -NXX MAY DISPLAY MORE LINES APPLIES TO AIX 7200-05**

tail -n xxxx may display more lines if the approximate size

[Link](#)

- **IJ46879: IPREPORT FORMATTING TCPDUMP TIMESTAMPS INCORRECTLY APPLIES TO AIX 7200-05**

When ipreport formats a capture file written by tcpdump it incorrectly shows the fraction of the second as

[Link](#)

- **IJ48036: SSL NOT ENABLED FOR NIM PRIMARY, ALTERNATE AND NIM CLIENT APPLIES TO AIX 7200-05**

Although the client is ssl enabled before takeover, after takeover connect attribute for client object

[Link](#)

- **IJ47722: HMC MGMT OBJ PASSWD_FILE NOT REPLICATED IN ALT_MSTR APPLIES TO AIX 7200-05**

Password file will not be copied to the alternate master after a sync operation.

[Link](#)

- **IJ47279: KSH BUILTIN 'PWD' AND 'CD ..' ARE LEAKING MEMORY APPLIES TO AIX 7300-02**

Memory of ksh will continue to grow with repeated calls to its builtin 'pwd' or 'cd ..'

[Link](#)

- **IJ48475: TAIL -C FAILS WITH ZERO EXIT STATUS APPLIES TO AIX 7200-05**

tail command fails to display usage error for -c option when user dont specify any number after -c.

[Link](#)

- **IJ46874: ICONV UCCINIT CORE DUMPS IF UCS TABLE PERMISSIONS ARE RESTRICT APPLIES TO AIX 7200-05**

If permissions are restricted for a UCS table, the command

[Link](#)

- **IJ47887: SEA CREATION FAILS WHEN IPV6 OFFLOAD IS NOT SUPPORTED APPLIES TO AIX 7200-05**

SEA creation fails if underlying physical adapter is 14104003 and on virtual adapter

[Link](#)

- **IJ45109: INCORRECT STATE SET FOR NETWORK INTERFACE WITH CONFIGURED ALIAS APPLIES TO AIX 7300-02**

When a network interface is configured with the attribute "state" set to "down" in the ODM, and there is also an

[Link](#)

- **IJ46875: ALT_DISK_COPY -T -G FAIL IN JFS2J2 BOOTABLE DISK CHECK APPLIES TO AIX 7200-05**

When issuing alt_disk_copy to perform JFS to JFS2 filesystem conversion and skip bootable check, the command fails with:

```
alt_disk_copy -T -d hdisk0 -g
jfs2j2: No bootable disk in hdisk0.
jfs2j2: No mounted filesystems of type jfs.
jfs2j2: Cleaning up.
jfs2j2: Successfully completed converting image.data to jfs2.
0505-121 alt_disk_install: Error.
```

[Link](#)

- **IJ45658: ALT_DISK_COPY -T -G FAIL IN JFS2J2 BOOTABLE DISK CHECK APPLIES TO AIX 7100-05**

When issuing alt_disk_copy to perform JFS to JFS2 filesystem conversion and skip bootable check, the command fails with:

```
alt_disk_copy -T -d hdisk0 -g
jfs2j2: No bootable disk in hdisk0.
jfs2j2: No mounted filesystems of type jfs.
jfs2j2: Cleaning up.
jfs2j2: Successfully completed converting image.data to jfs2.
0505-121 alt_disk_install: Error.
```

[Link](#)

- **IJ45879: VIRTUAL TAPE DEVICE OPERATIONS MAY FAIL IN AIX 7.2 TL5 APPLIES TO AIX 7200-05**

The virtual tape device operations like mksysb or tape rewind may fail in AIX 7.2 TL5 and a VIOS_VSCSI_ERR2

[Link](#)

- **IJ42481: SECLDAPCLNTD DOES NOT RECOGNISE OPENLDAP PASSWORD POLICY APPLIES TO AIX 7200-05**

If a password policy is defined on an OpenLDAP server, it might not be properly respected.

[Link](#)

- **IJ47811: LPAR CRASHED WITH STACK VFC_CANCEL_PENDING_ADMIN_CMDS APPLIES TO AIX 7200-05**

AIX Client lpar might crash in vfc stack when VIOS does not respond to error path recovery commands.

[Link](#)

- **IJ47976: SSL INFO ISSUE AFTER NIM SYNC OPERATION. APPLIES TO AIX 7200-05**

After nim sync from primary master, customer finds the connect attribute for primary master object on

[Link](#)

- **IJ47817: "NIM_UPDATE_ALL" CMD GIVES SUCCESS EXIT CODE FOR FAILURE APPLIES TO AIX 7200-05**

nim_update_all invokes nim with the "-o cust" option to install the fileset on the client.

[Link](#)

- **IJ44714: AIXPERT -U DOES NOT RESTORE DEFAULT USER SETTINGS APPLIES TO AIX 7200-05**

aixpert -u does not restore default user settings.

[Link](#)

- **IJ46950: DISK ERROR WHEN USING SINGLE_PATH RESERVES APPLIES TO AIX 7200-05**

When using reserve_policy=single_path, there is a small chance for an I/O error during a storage device controller failover.

[Link](#)

- **IJ47965: MULTIPLE NIMADM UPDATES IN PARALLEL MAY FAIL APPLIES TO AIX 7200-05**

Running multiple nimadm updates in parallel may fail in emgr/trustchk due to a check failing if the commands

[Link](#)

- **IJ47530: EVER108BMC REPORTED B200A101 SRC. APPLIES TO AIX 7200-05**

System crashed when running htx and phyp memory mover.

[Link](#)

- **IJ45105: ERRLOG FROM PFCDD ON FAILURE TO INVALIDATE THE DATA. APPLIES TO AIX 7200-05**

When cache is enabled, errpt entries shows for temporary memory failures.

- [Link](#)
IJ46871: INCORRECT STATE SET FOR NETWORK INTERFACE WITH CONFIGURED ALIAS APPLIES TO AIX 7200-05
When a network interface is configured with the attribute "state" set to "down" in the ODM, and there is also an
- [Link](#)
IJ49727: LI #OEP BAR0 CHANGES FOR HONOURING ODM CONFIGURATION
Support for new TL/SP
- [Link](#)
IJ43419: PROCFILES FAILS TO PRINT ALL FILENAMES OF DB2SYSC PROCESS APPLIES TO AIX 7200-05
Problem Abstract: procfiles fails to print filenames for some inodes of
- [Link](#)
IJ47761: COMMANDS "T HANDLING OF FC ASYNCHRONOUS EXTENDED LINK SERVICES APPLIES TO AIX 7200-05
Some of the FC asynchronous Extended Link Services commands are handled incorrectly, driver logs errpt entries.
- [Link](#)
IJ48051: SYSTEM CRASH WHILE STOP VIRTUAL INITIATOR (SCIOSTOPINTR) APPLIES TO AIX 7200-05
Probable system crash with similar below stack trace STACK:
- [Link](#)
IJ45056: POTENTIAL SECURITY ISSUE APPLIES TO AIX 7200-05
This APAR addresses a potential security issue. Any relevant information will be released via My Notifications.
- [Link](#)
IJ45823: VLANDD: ADD TRACING TO PROVIDE BETTER TROUBLESHOOTING APPLIES TO AIX 7200-05
Additional tracing is needed to provide better troubleshooting.
- [Link](#)
IJ48483: INCREASE MAX LDATA POOL LIMIT IN PFCURH APPLIES TO AIX 7200-05
Errlogs are observed from PFCURH driver.
- [Link](#)
IJ47704: LKU: POST-PROCESSING ERRORS WHEN LDAP IS CONFIGURED APPLIES TO AIX 7200-05
LKU may face Post-processing errors while shutting down the Original LPAR
- [Link](#)
IJ47919: ALT_DISK_INSTALL CLEANS ALTINST_ROOTVG IF SETUP_WORKDIR FAILS APPLIES TO AIX 7200-05
The altinst_rootvg will be cleaned up if setup_work() fails
- [Link](#)

- **IJ47720: ADD /ETC/MAIL/SUBMIT.CF TO 'SNAP -T' DATACOLLECTION APPLIES TO AIX 7200-05**
Starting with AIX version AIX 7 with 7200-04 the sendmail command uses the /etc/mail/submit.cf configuration file
[Link](#)
- **IJ48486: LPAR CRASHED WHILE RUNNING KERNEL EXTN TEST FOR PKS APPLIES TO AIX 7200-05**
on calling the PKS read service with null handle we see a system crash
[Link](#)
- **IJ46873: SYSTEM CRASHED IN AIX_OFED_TRACK_SEND_PAGES_ENQUEUE() APPLIES TO AIX 7200-05**
System may crash with following stack: (0)> f
[Link](#)
- **IJ47798: '#DEFINE MALLOC_VEC_MALLOC' CAUSES ERROR/WARNING WITH IBM-CLANG APPLIES TO AIX 7200-05**
Customer might see compiler errors/warnings while compiling open source software such as OpenJDK and OpenSSL with Clang or ibm-clang.
[Link](#)
- **IJ46950: DISK ERROR WHEN USING SINGLE_PATH RESERVES APPLIES TO AIX 7200-05**
When using reserve_policy=single_path, there is a small chance for an I/O error during a storage device controller failover.
[Link](#)
- **IJ48039: INCOMPLETE ERROR MSG ON LU CMD IF NIM CLIENT IS NOT CONF APPLIES TO AIX 7200-05**
Incorrect or generic error message is displayed.
[Link](#)
- **IJ46755: NO LVM STATS RETURNED FOR SOME ACTIVE VGS DUE TO INACTIVE VGS APPLIES TO AIX 7200-05**
When some of the volume groups in the ODM are not varied on LVM statistics
[Link](#)
- **IJ48471: TAIL(1) MISIDENTIFIES DIRECTORIES AS FILES APPLIES TO AIX 7200-05**
tail command doesn't output error when used with a directory and misidentifies directory as file.
[Link](#)
- **IJ48474: CKSUM ISSUE WITH MULTIPLE ARGUMENT WHEN ENV XPG_SUS_ENV IS SET APPLIES TO AIX 7200-05**
cksum issue with multiple argument when env XPG_SUS_ENV is set
[Link](#)
- **IJ48480: HDCRYPTMGR CLI CAN CORE DUMP WITH CORRUPTED LV META DATA APPLIES TO AIX 7200-05**
hdcryptmgr CLI can core dump with corrupted LV meta data
[Link](#)

- **IJ47209: BDIFF SHOULD RETURN SAME VALUES AS DIFF COMMAND APPLIES TO AIX 7200-05**
bdiff always return 0 even when the files differs. It should return same return code as the diff command
[Link](#)
- **IJ49735: RESTVG -S, ENC POLICY MISMATCH, NOT REMOVING ENCR**
If the source disk is encrypted and the target disk is unencrypted, creating a volume group (e.g., test_vg) on the source disk and then backing up with savevg and restoring with restvg will prompt the user. This is due to a mismatch in the encryption policy, the source is encrypted while the target is not.
[Link](#)
- **IJ47688: ECHO COMMAND FAILURE APPLIES TO AIX 7200-05**
echo command failure
[Link](#)
- **IJ48686: ECHO WRITES NEW LINE DROPPING CODE 72Z AND 73B APPLIES TO AIX 7200-05**
echo writes additional new line
[Link](#)
- **IJ48500: UNIX SOCKET LOCK PAIR PROBLEMS IN SOFREE2 APPLIES TO AIX 7200-05**
A unix socket lock pair problem in sofrees2 for AIX 7200-05
[Link](#)
- **IJ48044: ALT_ROOTVG_OP -X IS REMOVING VG, WHICH IS NOT COPY OF ROOTVG APPLIES TO AIX 7200-05**
Customer will end up deleting a vg, which is not rootvg copy
[Link](#)
- **IJ47341: WHEN VIOS GOES DOWN, VSCSI DISK I/O MIGHT HANG APPLIES TO AIX 7200-05**
LPARs at AIX 7200-05 may suffer I/O hang on vSCSI disk when VIO Server goes down.
[Link](#)
- **IJ47889: GET_STACK_SIZE CAUSING LOCK CONTENTION ON U_HANDY_LOCK APPLIES TO AIX 7200-05**
Customer is running MQ load with 120 Requestor and finding drop in PPS rate
[Link](#)
- **IJ47719: DLPAR WITH MOSO RESULTS IN CORE DUMP APPLIES TO AIX 7200-05**
Software error is reported in errpt
[Link](#)
- **IJ47026: C_CH_NFSEXP OVERFLOW WITH LARGE MKSYSB FILE APPLIES TO AIX 7200-05**
NIM spot creation with a large mksysb file may report c_ch_nfsexp overflow error:
[Link](#)

- **IJ49728: ALT_DISK_COPY.SH FAILURES IN PHASE WISE EXECUTION, 1174248**
Mount paths remain temporarily mounted after the execution of alt_disk_copy.
[Link](#)
- **IJ46945: NIM MASTER DOESN'T GIVE ERRORS ON CERTIFICATE EXPIRATION APPLIES TO AIX 7200-05**
Customer is not able to see error specific to nim server certificate expiration.
[Link](#)
- **IJ46541: POTENTIAL UNDETECTED DATA LOSS AFTER RUNNING CHVG -KY OR CHVG -G APPLIES TO AIX 7200-05**
AIX 7200-05 has potential for undetected data loss after running chvg -kv or chvg -g
[Link](#)
- **IJ47900: SAVEVG FAILS TO BACKUP SOME ATTRIBUTES OF CONCURRENT-CAPABLE VGS APPLIES TO AIX 7200-05**
The savevg command fails to backup the attributes: ENCRYPTION, CRITICAL VG, and CRITICAL PVs of concurrent capable Volume Groups
[Link](#)
- **IJ46900: 8680FF1514100000 DRIVER IGNORING MODULE 7 BURN RETURN CODE. APPLIES TO AIX 7200-05**
Adapter's firmware isn't properly updated though upgrade is successful.
[Link](#)
- **IJ47743: NIM SPOT CREATION AND CHECK REPORT NFS_CNTL FAILED APPLIES TO AIX 7200-05**
The NIM spot creation and check may report below error message if the environment NFS_RESERVED_PORT is set in /etc/niminfo:
warning: 0042-175 c_ckspot: An unexpected result was returned by the "/usr/lpp/bos.sysmgt/nim/methods/c_mkbooti" command:

nfso: 1831-543 The client system call nfs_cntl(4,536909200, 64) failed.
[Link](#)
- **IJ48608: A POTENTIAL SECURITY ISSUE EXISTS APPLIES TO AIX 7200-05**
This APAR addresses a potential security issue. Any relevant information will be released via My Notifications.
[Link](#)
- **IJ48671: A POTENTIAL SECURITY ISSUE EXISTS APPLIES TO AIX 7200-05**
This APAR addresses a potential security issue. Any relevant information will be released via My Notifications.
[Link](#)
- **IJ46946: ALT MSTR GIVES UNSECURE CONN APPLIES TO AIX 7200-05**
post a sync op, alt mstr connect mode will be nimsh even though it is operating in secure mode from primary master.

- [Link](#)
• **IJ46694: LDAP USER LOGINS STOP WORKING APPLIES TO AIX 7200-05**
AIX 7200-05 LDAP user logins may stop working
- [Link](#)
• **IJ46945: NIM MASTER DOESN'T GIVE ERRORS ON CERTIFICATE EXPIRATION APPLIES TO AIX 7200-05**
Customer is not able to see error specific to nim server certificate expiration.
- [Link](#)
• **IJ48663: A POTENTIAL SECURITY ISSUE EXISTS APPLIES TO AIX 7200-05**
This APAR addresses a potential security issue. Any relevant information will be released via My Notifications.
- [Link](#)
• **IJ48485: LPAR MAY CRASH IN NETKMEM_DR_CPU_REMOVE APPLIES TO AIX 7200-05**
Crash in LPAR is seen during frequent dlpdr add/remove operations with the below stack trace:
- [Link](#)
• **IJ49729: LI #OEP BAR0 CHANGES FOR HONOURING ODM CONFIGURATION**
Support for new TL/SP
- [Link](#)
• **IJ47901: ASO CORE DUMPS DURING MPSS OPTIMISATION APPLIES TO AIX 7200-05**
ASO process can core dump with the following stack trace:
- [Link](#)
• **IJ46596: IMPROPER ASSIGNMENT FIX IN AIXDISKPCMKE.C APPLIES TO AIX 7200-05**
First time diskopen takes a longer than expected.
- [Link](#)
• **IJ48473: DD DOESN'T WRITE STATUS TO ERROR STREAM WHEN SIGINT APPLIES TO AIX 7200-05**
dd doesn't write status to error stream when SIGINT
- [Link](#)
• **IJ47332: TRUSTCHK STOP_UNTRUSTD=TROJAN RESULTS IN LIBC.A ERRORS APPLIES TO AIX 7200-05**
The following syntax: # trustchk -p CHKSHLIB=ON
STOP_UNTRUSTD=TROJAN TE=ON
- [Link](#)
• **IJ45636: SMIT NIM MKSYSB RESTORE FAIL TO LIST ADDITIONAL FILESET APPLIES TO AIX 7200-05**
The smit nim_bosinst with mksysb resource fail to list additional filesets to install although a lpp_source
- [Link](#)

- **IJ48476: A POTENTIAL SECURITY ISSUE EXISTS APPLIES TO AIX 7200-05**
This APAR addresses a potential security issue. Any relevant information will be released via My Notifications.
[Link](#)
- **IJ47949: NFS CAN ABEND WITH TRUSTED BINARY/SCRIPT ON AN NFS FS. APPLIES TO AIX 7200-05**
With trustchk policies CHKEEXEC & CHKSCRIPT on, and TE on a trusted binary/script on an NFS FS.
[Link](#)
- **IJ46040: LOGICAL VOLUME DEVICE DRIVER (LVDD) PERFORMANCE IMPROVEMENTS APPLIES TO AIX 7200-05**
Logical Volume device driver (LVDD) performance improvements
[Link](#)
- **IJ46947: NIM_MASTER_SETUP COMMAND HELP IS INCOMPLETE APPLIES TO AIX 7200-05**
Customers were not able to use nim_master_setup command to disable file systems and lpp_source.
[Link](#)
- **IJ47832: EID BEING LOGGED IN ERRPT DURING THE ADAPTER FIRMWARE UPGRADE APPLIES TO AIX 7200-05**
Customer may notice Excessive Interrupt Disablement log entry in errpt during the firmware upgrade.
[Link](#)
- **IJ49733: VIOS SNAP LOG COLLECTION FROM HMC FAILS**
Running lpardbg may fail with the following error.
[Link](#)
- **IJ45958: PROCFILES FAILS TO PRINT ALL FILENAMES OF DB2SYSC PROCESS APPLIES TO AIX 7100-05**
Problem Abstract: procfiles fails to print filenames for some inodes of
[Link](#)
- **IJ46279: FDINFO_REOPEN() RETURNS ENOENT APPLIES TO AIX 7200-05**
LKU failure with fdinfo_reopen() returning ENOENT if the customer upgrades from 7200-04-02 to 7200-05-04
[Link](#)
- **IJ47723: BOOTIMAGE SPACE ISSUE DURING MIGRATION APPLIES TO AIX 7200-05**
If BOS install failed to create the boot image, an error similar to the following error will be displayed:
[Link](#)
- **IJ45937: INCORRECT MESSAGE WITH SMIT PANEL TO ATTACH THE NAMESPACE APPLIES TO AIX 7100-05**

In SMIT panel to attach the Namespace, Namespace size is displayed instead of Namespace Identifier.

[Link](#)

- **IJ45944: SECLDAPCLNTD NEEDS TO CALL LDAP_STOP_TLS_S_NP APPLIES TO AIX 7100-05**

If StartTLS is in use (useSSL:TLS in ldap.cfg), then secldapclntd makes a call to ldap_start_tls_s_np to initiate the StartTLS session. When unbinding, it does not call ldap_stop_tls_s_np, but it needs to.

[Link](#)

- **IJ49744: ALT_DISK_COPY.SH FAILURES IN PHASE WISE EXECUTION, 1174248**

Mount paths remain temporarily mounted after the execution of alt_disk_copy.

[Link](#)

- **IJ49747: OFED CRASH IN CM_ALLOC_RESPONSE_MSG() WHILE INTERFACE DETACHED**

KDB(8)> f pvthread+0A4100 STACK: YF10009D5A12B81F0*IPRA.
\$cm_alloc_response_msg+000030

[Link](#)

- **IJ49737: INCORRECT PRINT QUEUE STATUS SHOW**

The incorrect print queue status may show on AIX 7300-02. e.g.

[Link](#)

- **IJ49740: SYSTEM CAN CRASH IN PFFINDTYPE() ON AIX 7.3 AND ABOVE**

System can crash with the following stack trace on the machines running AIX 7.3 or above.

[Link](#)

- **IJ49743: LKU: UNABLE TO DIVIDE POWERPATH DISK ADAPTERS IN AIX 7.3 TL2**

LKU may fail to divide adapters for non-rootvg PowerPath disks at 7300-02-01.

[Link](#)

- **IJ49757: INVALID ERROR DURING MIGRATION**

The encrypted file systems list file will not be created if the EFS does not exist in the system.

[Link](#)

- **IJ49755: ALT_DISK_COPY.SH FAILURES IN PHASE WISE EXECUTION, 1174248**

Mount paths remain temporarily mounted after the execution of alt_disk_copy.

[Link](#)

- **IJ49746: 0590-102 INCORRECT PROFILE - UPDATEIOS FROM 3.1.4.10 TO 3.1.4.21**

During updateios from 3.1.4.10 to 3.1.4.21, an error occurred during installation of ios.artex_profile.rte.

[Link](#)

- **IJ49750: 0590-102 INCORRECT PROFILE - UPDATEIOS FROM 3.1.4.10 TO 3.1.4.21**
During updateios from 3.1.4.10 to 3.1.4.21, an error occurred during installation of ios.artex_profile.rte
[Link](#)
- **IJ49752: OFED CRASH IN CM_ALLOC_RESPONSE_MSG() WHILE INTERFACE DETACHED**
KDB(8)> f pvthread+0A4100 STACK: ÝF10009D5A12B81F0"IPRA.
\$cm_alloc_response_msg+000030
[Link](#)
- **IJ49763: INVALID ERROR DURING MIGRATION**
The encrypted file systems list file will not be created if the EFS does not exist in the system.
[Link](#)
- **IJ49766: INVALID ERROR DURING MIGRATION**
The encrypted file systems list file will not be created if the EFS does not exist in the system.
[Link](#)
- **IJ49756: OFED CRASH IN CM_ALLOC_RESPONSE_MSG() WHILE INTERFACE DETACHED**
KDB(8)> f pvthread+0A4100 STACK: ÝF10009D5A12B81F0"IPRA.
\$cm_alloc_response_msg+000030
[Link](#)

AIX preventative planning:

- **AIX Service Pack 7300-01-03-2346**
Service Packs contain important fixes. Service Pack 7300-01-03-2346 is based on Technology Level 7300-01.
[Link](#)
[Download](#)

AIX technotes:

- **What data should be collected when a process core dumps on AIX?**
When a process core dumps on AIX, two things are necessary for problem analysis:
 1. The binary must have been shipped with AIX as IBM has to be the source code owner. Third party applications must be analysed by the respective vendor.
 2. Data collection has to be done using the "snapcore" command. The core file itself is not sufficient. snapcore will ensure the core file, program binary and all relevant libraries are gathered which allows for analysis outside the customer's environment.[Link](#)
- **AIX Open Source Tip: Checking for non-AIX Toolbox packages**

Non-AIX Toolbox packages that deliver files available in AIX file sets or AIX Toolbox packages might result in unexpected behaviour. It is recommended to remove those non-AIX Toolbox packages.

How can I determine whether my packages are from the Toolbox?

[Link](#)

- **AIX 7.2 Installation Tips**

This document contains tips for successful installation of AIX 7.2 and is updated as new tips become available.

Last Update: 26 January 2024

[Link](#)

- **Preparing customer firewalls and proxies for the upcoming infrastructure changes – Call Home, Electronic Fix Distribution (HIPER)**

Important note to make changes to your configuration, or risk losing access to Call Home and Electronic Fix Distribution as IBM makes changes to their sites.

[Link](#)

- **HMC Scanner for POWER Server Config and Performance Stats**

Use the HMC Scanner to quickly extract all the details of the POWER Servers the HMC is connected too and saved in a Microsoft Excel spreadsheet.

The tool is available at the end of this document as a compressed file that needs to be extracted on an empty directory. Latest version is 0.11.51: "hmcScanner-0.11.51.zip". Java 1.8 or newer is required. Check FAQ section.

[Link](#)

PowerHA planning:

- **PowerHA SystemMirror support lifecycle information**

The PowerHA SystemMirror release dates and end of service pack support (EoS) dates.

Release	Release Date	End of Service Pack Support
PowerHA 7.2 TL8	December 2023	30 April 2027 (estimated)
PowerHA 7.2 TL7	December 2022	30 April 2026 (estimated)
PowerHA 7.2 TL6	December 2021	30 April 2025 (estimated)
PowerHA 7.2 TL5	December 2020	30 April 2024 (estimated)
PowerHA 7.2 TL4	December 2019	30 April 2023
PowerHA 7.2 TL3	December 2018	13 May 2022
PowerHA 7.2 TL2	December 2017	30 April 2021
PowerHA 7.2 TL1	December 2016	30 May 2020
PowerHA 7.2 TL0	December 2015	30 April 2019
PowerHA 7.1 TL3	December 2013	30 April 2018
PowerHA 7.1 TL2	November 2012	30 June 2016
PowerHA 7.1 TL1	December 2011	30 April 2015
PowerHA 7.1 TL0	August 2010	30 September 2014
PowerHA 6.1	October 2009	20 April 2015

[Link](#)

- **VMRMDR rehearsal discover verify steps when List of Logical Units found extra on the destination VIOS and RC=83**

This document covers a particular case where VMRM DR rehearsal fails. It will be published once finalised with the customer.

[Link](#)

Keep safe and happy '24
Red, Belisama

