

AIX snap - Prevent dump collection

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You can specify the **-Z** flag with the AIX **snap** command to prevent it from collecting system dump data. The flag is **not** shown in the man page for **snap**. However, it is listed in the usage information.

```
# oslevel -s
```

```
7100-03-03-1415
```

```
# sysdumpdev -L
```

```
Device name: /dev/lg_dumplv
```

```
Major device number: 10
```

```
Minor device number: 11
```

```
Size: 174708224 bytes
```

```
Uncompressed Size: 1131385360 bytes
```

```
Date/Time: Tue Nov 11 12:56:15 2014
```

Dump status: 0

Type of dump: fw-assisted

dump completed successfully

...

man snap

snap Command

Purpose

Gathers system configuration information.

Syntax

```
snap [-@] [-a] [-z "product_name=prd_name,..." | "class=myclass,.." | ALL] [-M Timeout] [-A] [-b] [-B] [-c] [-C] [-D] [-f] [-F] [-g] [-G] [-i] [-k] [-l] [-L]
```

```
-n] [-N] [-p] [-r] [-R] [-s] [-S] [-t] [-T Filename] [-w] [-X] [-Y] [-o OutputDevice] [-d Dir] [-v Component] [-O FileSplitSize] [-P Files] [script1
```

```
script2 ... | All | file:filepath ]
```

```
snap -e [ -m Nodelist ] [ -d Dir ]
```

```
snap -z ADD ["product_name=prod_name" "class=myclass" "command_path=/tmp/myprod_myscript -a"]
```

```
snap -z DELETE ["product_name=prod_name" ]
```

Description

The snap command gathers system configuration information and compresses the information into a pax file. The file may then be written to a device such as tape or DVD, or transmitted to a

remote system. The information gathered with the snap command might be required to identify and resolve system problems.

...

```
# snap
```

```
Usage: snap [-@gFGStfkdpsAliIbBNLRwhHCZYM] [-z "product_name=productname, ..." | "class=classname, ..." | ALL ] [-o  
outputdevice] [-d dir] [All |
```

```
file:filename | scriptname1 [scriptname2] ...]
```

snap [-aZ] [-o outputdevice] [-d dir]

snap [-gGStmfkDpsAliIbBNLRwhHCZY] [-c] [-O splitsize] [-d dir] [All |

file:filename | scriptname1 [scriptname2] ...]

snap [-o outputdevice] [-d dir]

snap [-v component]

snap [-c] [-O splitsize] [-d dir]

snap [-r] [-d dir]

snap [-gGS]

snap [-gG]

snap [-gh]

snap [-gS]

snap [-HC | -P files]

snap [-g] [-T trcfile]

snap [-T trcfile]

snap [All]

snap [file:filename]

snap [scriptname1 [scriptname2] ...]

snap [-e [-m nodenamelist]]

snap [-z ADD "product_name=productname" "class=classname" "command_path=Absolute path of your debug command"]

snap [-z DELETE "product_name=yourproductname"]

snap [-z "product_name=productname, ..." | "class=classname, ..." | ALL]

snap [-M snap_time_out_value]

-@ Gather workload partition information

-a Gather all information.

-g Gather general information.

-T Captures a specific trace (specify full path name of the trcfile).

-G Include Pd* ODM files in general information.

-t Gather tcpip information.

-n Gather nfs information.

-f Gather file system information.

-k Gather kernel information.

-D Gather dump and /unix along with livedump information.

-D -x Perform Automated Dump Analysis.

-p Gather printer information.

-s Gather sna information.

- S Include security files in general information.

- A Gather async (tty) information.

- X Gather X.25 LPP information.

- Y Gather IB Debug information.

- i Gather Install information.

- I Gather PCI-X-SCSI and SISSAS information.

- l Gather programming language information.

- b Gather SSA Adapter/Disk information.

- B Skip SSA adapter dump collection when -b is specified.

- R Gather SCSI RAID information.

- L Gather logical volume manager (LVM) information.

- N Suppress free space checking

- w Gather workload manager (wlm) information.

- H Gather general information without platform/scanout data.

- C Gather just platform/scanout files.

- P Gather just the specified platform/scanout files.

- h Gather Hardware information.

-e Gather HACMP information.

-m node name list [separated by ,] to gather HACMP information.

-c Create snap.pax.Z file.

-o Send information to removable output device (/dev/rfd0).

-d Directory to put information (/tmp/ibmsupt).

-r Remove directory (/tmp/ibmsupt).

-F Gather flash adapter related information.

-v Output component snap file to stdout

Current component choices are:

'async dump dump/autoload filesys general kernel lang printer XS25 sna tcpip install ssa scraid lvm wlm wpars hacmp peixsesi
sissas ctsupt products flash IB'

-z To run third party debug commands

-M To set the timeout for third party debug commands

If, used with options other than -a/-z its value is ignored

-Z Prevent dump collection.

If you run snap whilst a system dump has been recorded on the dump device (logical volume), then it will be collected and included in the snap data file. If there is a valid dump to collect you'll see the message highlighted below in the snap output.

```
# snap -ac
```

```
Checking space requirement for general information.....  
.....  
..... done.
```

```
Checking space requirement for tcpip information..... done.
```

```
Checking space requirement for kernel information..... done.
```

```
Checking space requirement for printer information.... done.
```

```
Checking space requirement for dump information.....
```

```
Attention: The dump is compressed, and we were not able to verify it is
```

```
consistent with /unix. Processing continues.
```

```
. done.
```

```
Checking space requirement for sna information.../var/sna not found
```

```
done.
```

```
Checking space requirement for filesys information..... done.
```

```
Checking space requirement for async information..... done.
```


Checking space requirement for lang information..... done.

...etc...

Gathering caa data

Gathering pcixscsi system information..... done.

Gathering sissas system information..... done.

Gathering IB system information.....

Creating compressed pax file...

Starting pax/compress process... Please wait... done.

```
-rw----- 10 0 238702810 Nov 11 13:20 snap.pax.Z
```

The dump data is saved to **/tmp/ibmsupt/dump**, as shown below.

```
# cd /tmp/ibmsupt/dump
```

```
# ls -ltr
```

```
total 374408
```

```
-r-xr-xr-x 1 bin bin 7975536 May 16 22:01 kdb_64
```

```
-rw----- 1 root system 2118 Nov 11 12:57 minidump_last
```

```

-rw----- 1 root  system  8977113 Nov 11 13:19 unix.Z

-rw----- 1 root  system  13954 Nov 11 13:19 mdmprpt.out

lrwxrwxrwx 1 root  system    6 Nov 11 13:19 trcdead -> kdb_64

lrwxrwxrwx 1 root  system    6 Nov 11 13:19 livedumpdead -> kdb_64

lrwxrwxrwx 1 root  system    6 Nov 11 13:19 kdb -> kdb_64

lrwxrwxrwx 1 root  system    6 Nov 11 13:19 errdead -> kdb_64

-rw----- 1 root  system    784 Nov 11 13:19 dump.snap

-rw----- 1 root  system 174708224 Nov 11 13:19 dump.BZ

drwx----- 2 root  system    4096 Nov 11 13:19 autoload

```

Specifying the `-Z` flag to `snap` prevents this data from being collected by `snap`.

```
# snap -aZc
```

```

Checking space requirement for general information.....
.....
..... done.

```

```
Checking space requirement for tcpip information..... done.
```

```
Checking space requirement for kernel information..... done.
```

```
Checking space requirement for printer information.... done.
```

Checking space requirement for dump information..... done.

Checking space requirement for sna information.../var/sna not found

done.

Checking space requirement for filesystem information..... done.

Checking space requirement for async information..... done.

Checking space requirement for lang information..... done.

...etc...

Gathering caa data

Gathering pcixscsi system information..... done.

Gathering sissas system information..... done.

Gathering IB system information.....

Creating compressed pax file...

Starting pax/compress process... Please wait... done.

-rw----- 1 0 0 42606819 Nov 11 13:29 snap.pax.Z

The snap file is much smaller without the system dump collection.

```
-rw----- 1 0 238702810 Nov 11 13:20 snap.pax.Z - includes dump info
```

```
-rw----- 1 0 42606819 Nov 11 13:29 snap.pax.Z - no dump info
```

If you are on a version of AIX that doesn't have the **snap -Z** flag (such as AIX 5.3) then the alternative way to capture snap data without including the dump info is to run **snap -a**, when that is finished, remove the **/tmp/ibmsupt/dump** directory and run **snap -c** to create the snap pax file.

More information on snap and AIX system dumps:

http://www-01.ibm.com/support/knowledgecenter/ssw_aix_71/com.ibm.aix.cmds5/snap.htm?lang=en

https://www.ibm.com/developerworks/community/blogs/AIXDownUnder/entry/a_nice_clean_dump2?lang=en

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