

KB LEVEL: SVR	KB ARTICLE	KB NUMBER: 01
	<i>How to Free up Disk Space in Dialer Server</i>	

KB Category:	Internal		
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Problem Description:	Elastix dialer can't dial out internally and externally.
Symptoms and Cause of the issue:	Disk space has been reached 100% utilization.

#### Servers:

Kalliope – 10.1.0.250

#### Procedures:

**Step 1:** Login to Elastix server via SSH using own credentials and switch to super user.

```

root@Kalliope:~ x
Last login: wed Jul 17 03:53:57 2019 from 172.18.133.3
welcome to Elastix
-----
Elastix is a product meant to be configured through a web browser.
Any changes made from within the command line may corrupt the system
configuration and produce unexpected behavior; in addition, changes
made to system files through here may be lost when doing an update.

To access your Elastix System, using a separate workstation (PC/MAC/Linux)
Open the Internet Browser using the following URL:
http://115.85.25.5
http://10.1.0.250

[jan@kalliope ~]$ sudo su -
[sudo] password for jan:
Last login: wed Jul 17 03:54:02 SGT 2019 on pts/0
[root@kalliope ~]#

```

**Step 2:** Check current disk space utilization using df -h command.

```

[root@Kalliope ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/mapper/centos-root 50G  45G  5.7G 100% /
devtmpfs        9.8G   0 9.8G  0% /dev
tmpfs           9.8G   0 9.8G  0% /dev/shm
tmpfs           9.8G 257M 9.5G  3% /run
tmpfs           9.8G   0 9.8G  0% /sys/fs/cgroup
/dev/sda3       494M 117M 378M 24% /boot
/dev/mapper/centos-home 362G  19G 343G  6% /home

```

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**Step 3:** Find the largest files/folders on the root filesystem. Run the command below to display the top largest files.

```
[root@Kalliope ~]# find / -xdev -type f -size +100000 -exec ls -lh {} \; 2>/dev/null | sort -rn | head -20
```

```
[root@Kalliope ~]# find / -xdev -type f -size +100000 -exec ls -lh {} \; 2>/dev/null | sort -rn | head -20
-rw-r--r-- 1 root root 102M Apr 12 2018 /usr/lib/locale/locale-archive
-rw-r--r-- 1 asterisk asterisk 92M Jul 17 23:50 /var/spool/asterisk/monitor/2019/07/17/extern-4039-1001-20190717-221031-1563372631.9463.wav
-rw-r--r-- 1 asterisk asterisk 89M Sep 13 2018 /var/spool/asterisk/voicemail/default/4035/INBOX/msg0046.wav
-rw-r--r-- 1 asterisk asterisk 77M May 23 23:33 /var/spool/asterisk/monitor/2019/05/23/extern-4039-4006-20190523-220944-1558620584.6266.wav
-rw-r--r-- 1 asterisk asterisk 77M Jun 6 21:40 /var/spool/asterisk/monitor/2019/06/06/extern-4039-1001-20190606-201557-1559823357.17301.wav
-rw-r--r-- 1 asterisk asterisk 77M Apr 29 23:30 /var/spool/asterisk/monitor/2019/04/29/extern-4039-1001-20190429-220654-1556546814.6637.wav
-rw-r--r-- 1 asterisk asterisk 6.96 May 11 16:53 /var/spool/asterisk/monitor/2019/05/06/extern-4010-4007-20190506-085719-1557104239.927.wav
-rw-r--r-- 1 asterisk asterisk 60M Jun 6 07:18 /var/spool/asterisk/monitor/2019/06/06/force-513103727549-1011-20190606-060619-1559772379.16266.wav
-rw-r--r-- 1 asterisk asterisk 61M Jun 11 23:18 /var/spool/asterisk/monitor/2019/06/11/extern-4039-4006-20190611-221224-1560262344.21233.wav
-rw-r--r-- 1 asterisk asterisk 60M Jul 12 23:25 /var/spool/asterisk/monitor/2019/07/12/extern-4039-1001-20190712-222004-1562941204.6155.wav
-rw-r--r-- 1 asterisk asterisk 59M Jul 24 21:42 /var/spool/asterisk/monitor/2019/07/24/extern-4039-1001-20190724-203810-1563971890.15765.wav
-rw-r--r-- 1 asterisk asterisk 58M Jun 25 12:04 /var/spool/asterisk/monitor/2019/06/25/force-813103727549-1007-20190625-110152-1561431712.31886.wav
-rw-r--r-- 1 asterisk asterisk 57M May 23 07:22 /var/spool/asterisk/monitor/2019/05/23/force-513103727549-1011-20190523-062012-1558563612.5349.wav
-rw-r--r-- 1 asterisk asterisk 56M Jul 3 20:59 /var/spool/asterisk/monitor/2019/07/03/extern-4035-9006-20190703-195816-1562155096.39505.wav
-rw-r--r-- 1 asterisk asterisk 54M Jul 18 07:21 /var/spool/asterisk/monitor/2019/07/18/force-513103727549-1011-20190718-062332-1563402212.9730.wav
-rw-r--r-- 1 asterisk asterisk 52M May 13 18:35 /var/spool/asterisk/monitor/2019/05/13/extern-4038-4035-20190513-173914-1557740354.813.wav
-rw-r--r-- 1 asterisk asterisk 52M Jun 28 08:01 /var/spool/asterisk/monitor/2019/06/28/extern-4028-8200-20190628-070525-1561676725.34869.wav
-rw-r--r-- 1 asterisk asterisk 52M Jul 11 21:14 /var/spool/asterisk/monitor/2019/07/11/extern-4035-9006-20190711-201752-1562847472.5228.wav
-rw-r--r-- 1 asterisk asterisk 51M May 1 19:01 /var/spool/asterisk/monitor/2019/05/01/extern-1001-4039-20190501-180548-1556705148.10642.wav
-rw-r--r-- 1 asterisk asterisk 51M Jul 25 07:21 /var/spool/asterisk/monitor/2019/07/25/force-513103727549-1011-20190725-062611-1564007171.15990.wav
```

**Step 4:** Since most of the largest files are resides on directory **/var/spool/asterisk/monitor/2019/**. Navigate to that folder and check its current size.

```
[root@Kalliope 2019]# du -sh *
```

```
1.6G 04
```

```
20G 05
```

```
11G 06
```

```
9.7G 07
```

The displayed number folders represent the month of the year.

**Step 5:** Now we can perform the clean-up. Best options are to compress or relocate to other filesystems the oldest files/folders.

**Option 1:** Move the files to **/home/monitor** or preferred directory. This option is use if the disk already 100%.

```
[root@Kalliope 2019]# mv 04/ /home/monitor/
```

```
[root@Kalliope 2019]# mv 05/ /home/monitor/
```

**Option 2:** Compress the files using **gzip** commands. Use this option if still enough space for the zipped files.

```
[root@Kalliope 2019]# gzip -9 04/
```

```
[root@Kalliope 2019]# gzip -9 05/
```

```
[root@Kalliope 2019]# ls -l
```

```
total 12
```

```
drwxr-xr-x 7 asterisk asterisk 51 Jul 4 15:21 04.gz
```

```
drwxr-xr-x 33 asterisk asterisk 4096 May 31 00:17 05.gz
```

```
drwxr-xr-x 32 asterisk asterisk 4096 Jun 30 06:04 06
```

```
drwxr-xr-x 27 asterisk asterisk 4096 Jul 25 00:01 07
```

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**Step 7:** After the clean-up, restart and reload the Asterisk services.

```
[root@Kalliope 2019] # service asterisk restart
[root@Kalliope 2019] # service asterisk reload
```

#### Verification Steps:

**Step 1:** Check the free space now after the cleanup. It must be below 100% now.

```
[root@Kalliope 2019]# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/mapper/centos-root 50G  45G  5.6G  89% /
devtmpfs        9.8G  0  9.8G  0% /dev
tmpfs           9.8G  0  9.8G  0% /dev/shm
tmpfs           9.8G  257M  9.5G  3% /run
tmpfs           9.8G  0  9.8G  0% /sys/fs/cgroup
/dev/sda3       494M  117M  378M  24% /boot
/dev/mapper/centos-home 362G  19G  343G  6% /home
[root@Kalliope 2019]#
```

Utilization is now 89% and 5.6G free space.

**Step 2:** Perform test call internally by dialing local extension and call any US numbers.  
We can now be able to call using Elastix dialer.

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