

常用指令

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01 常用指令

02 指令組合

03 系統資源檢視

04 檔案權限控制

01 常用指令

01

常用指令

- man
- clear
- cd
- ls
- cat
- echo
- mkdir
- cp
- scp
- mv
- **rm**
- touch
- find
- sed
- grep
- date
- tail
- head
- awk

02 指令組合

02

指令組合

- tail then grep
 - `tail -f file | grep keyword`
- find then cp or remove
 - `find -type f -name "*.*)" | xargs sed 's/192.168.54.86/192.168.54.88/g' -i`
- ls then wc
 - `ls -al | wc -l`
- Docker
 - `docker stats $(docker ps --format={{.Names}})`

03

系統資源檢視

03

系統資源檢視

目的

- 確保儲存空間足夠
- 確保記憶體空間足夠
- 確保服務運作正常
- 確保作業系統運作正常

- df

```
[root@install-pkg-lab ~]# df -h
Filesystem                Size      Used Avail Use% Mounted on
devtmpfs                   59G         0   59G   0% /dev
tmpfs                      59G         0   59G   0% /dev/shm
tmpfs                      59G        17M   59G   1% /run
tmpfs                      59G         0   59G   0% /sys/fs/cgroup
/dev/mapper/centos_template--k8s-root 197G        56G  142G  29% /
/dev/sda1                  1014M       150M   865M  15% /boot
tmpfs                      12G         0   12G   0% /run/user/0
[root@install-pkg-lab ~]#
```

- du

```
[root@install-pkg-lab fusion-ap]# du -sh *
28M    alarm-rest
192M   anno
45M    anno-rest
315M   asset
141M   asset-rest
0      attachment
95M    bpm-rest
191M   bpm-rest-web-service
147M   cap
57M    cap-rest
24K    catalina.2020-12-17.log
24K    catalina.2020-12-25.log
44K    catalina.2020-12-28.log
4.0K   catalina.2020-12-29.log
224K   config
364K   crowd
130M   customer-msg
131M   customer-msg-rest
289M   cust-visit
102M   cust-visit-rest
```

```
[root@install-pkg-lab fusion-ap]# du -sh .
39G    .
[root@install-pkg-lab fusion-ap]#
```

03

系統資源檢視

透過指令觀察 – 記憶體

- free

```
[root@install-pkg-lab fusion-ap]# free -h
              total        used        free      shared  buff/cache   available
Mem:          117G        1.1G        114G         16M         2.1G        115G
Swap:           0B           0B           0B
[root@install-pkg-lab fusion-ap]#
```

- ps

```
[root@sit-common-docker ~]# ps u
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root      443  62.3   4.5 10884960 2240020 pts/0 Ssl+ 18:40 36:10 java -Duser.timezone=Asia/Taipei -server -Xms5120m -Xmx5120m -Djava.securi
root     1297  25.7   3.1 11973060 1581572 pts/0 Ssl+ 18:41 14:47 /jre/bin/java -Djava.util.logging.config.file=/tomcat/conf/logging.propertie
root     1560  20.2   2.8 7831124 1405032 pts/0 Ssl+ 18:41 11:38 /jre/bin/java -Djava.util.logging.config.file=/tomcat/conf/logging.propertie
root     1906  22.5   1.6 5685832 809172 pts/0 Ssl+ 18:41 12:53 java -Duser.timezone=Asia/Taipei -Xms256m -Xmx400m -Djava.security.egd=file
root     2163  18.8   2.5 8364656 1250696 pts/0 Ssl+ 18:41 10:46 /jre/bin/java -Djava.util.logging.config.file=/tomcat/conf/logging.propertie
root     2495  23.5   1.7 6405832 886368 pts/0 Ssl+ 18:41 13:25 java -Duser.timezone=Asia/Taipei -Xms256m -Xmx512m -Djava.security.egd=file
root     2749  18.2   2.4 8498936 1233468 pts/0 Ssl+ 18:41 10:22 /jre/bin/java -Djava.util.logging.config.file=/tomcat/conf/logging.propertie
root     2935   0.0   0.0 110204    124 ttyL      Ss+   20:20 0:00 /sbin/agetty --noclear ttyL linux
root     3081  20.2   2.7 8303332 1372120 pts/0 Ssl+ 18:41 11:29 /jre/bin/java -Djava.util.logging.config.file=/tomcat/conf/logging.propertie
root     3382   4.4   2.2 7420472 1109736 pts/0 Ssl+ 18:41 2:31 /jre/bin/java -Djava.util.logging.config.file=/tomcat/conf/logging.propertie
root     3641  17.2   2.5 7753292 1260724 pts/0 Ssl+ 18:42 9:45 /jre/bin/java -Djava.util.logging.config.file=/tomcat/conf/logging.propertie
root     3880  19.6   2.7 7696676 1373204 pts/0 Ssl+ 18:42 11:05 /jre/bin/java -Djava.util.logging.config.file=/tomcat/conf/logging.propertie
root     4148  22.4   2.7 11971444 1343068 pts/0 Ssl+ 18:42 12:36 /jre/bin/java -Djava.util.logging.config.file=/tomcat/conf/logging.propertie
root     4383   1.5   1.0 6642156 506020 pts/0 Ssl+ 18:42 0:52 /jre/bin/java -Djava.util.logging.config.file=/tomcat/conf/logging.propertie
root     4607  18.8   2.7 8299488 1376776 pts/0 Ssl+ 18:42 10:31 /jre/bin/java -Djava.util.logging.config.file=/tomcat/conf/logging.propertie
root     4860  18.7   2.4 8297064 1206440 pts/0 Ssl+ 18:42 10:29 /jre/bin/java -Djava.util.logging.config.file=/tomcat/conf/logging.propertie
root     5225  61.7   4.5 10884960 2250780 pts/0 Ssl+ 18:43 34:11 java -Duser.timezone=Asia/Taipei -server -Xms5120m -Xmx5120m -Djava.securi
root     5786  24.7   1.8 5611160 901872 pts/0 Ssl+ 18:43 13:30 java -Duser.timezone=Asia/Taipei -Xms256m -Xmx512m -Djava.security.egd=file
root    14609   0.1   0.1 17072984 50460 pts/0 Ssl+ 4月27 21:04 java -jar lib/sonar-application-6.0.jar -Dsonar.log.console=true -Dsonar.jc
root    14704   1.0   0.8 11012824 414556 pts/0 Sl+   4月27 135:13 /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java -Djava.awt.headless=true -X
root    14918   0.6   0.9 8344096 451676 pts/0 Sl+   4月27 85:23 /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java -Djava.awt.headless=true -D
root    15248   0.8   1.2 7848388 598072 pts/0 Sl+   4月27 109:17 /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java -Djava.awt.headless=true -D
root    23979   7.7   3.7 8245144 1856388 pts/0 Ssl+ 4月20 1828:28 /jre/bin/java -Djava.util.logging.config.file=/tomcat/conf/logging.propertie
root    24327   0.0   0.0 11172    4132 pts/0 Ss+   5月04 0:00 nginx: master process nginx -g daemon off;
root    24550   0.0   0.0 11604    4356 pts/0 Ss+   5月04 0:00 nginx: master process nginx -g daemon off;
root    25676   0.1   0.0 117448    3940 pts/0 Ss   19:37 0:00 -bash
root    26193   0.0   0.0 155472    1872 pts/0 R+    19:38 0:00 ps u
root    26279   0.2   0.4 4871312 233920 pts/0 Ssl+ 4月20 66:46 java -Duser.timezone=Asia/Taipei -Xms256m -Xmx512m -jar JrebelBrainsLicense
[root@sit-common-docker ~]#
```

- top

```
top - 19:57:08 up 13 days, 8:55, 1 user, load average: 0.00, 0.18, 0.50
Tasks: 247 total, 2 running, 245 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.4 sy, 0.0 ni, 99.6 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
KiB Mem : 12360326+total, 12017756+free, 1158316 used, 2267384 buff/cache
KiB Swap: 0 total, 0 free, 0 used. 12158195+avail Mem
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	194080	7172	4200	S	0.0	0.0	0:11.48	systemd
2	root	20	0	0	0	0	S	0.0	0.0	0:00.23	kthreadd
4	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/0:0H
6	root	20	0	0	0	0	S	0.0	0.0	0:01.94	ksoftirqd/0
7	root	rt	0	0	0	0	S	0.0	0.0	0:04.14	migration/0
8	root	20	0	0	0	0	S	0.0	0.0	0:00.00	rcu_bh
9	root	20	0	0	0	0	S	0.0	0.0	9:08.40	rcu_sched
10	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	lru-add-drain
11	root	rt	0	0	0	0	S	0.0	0.0	0:02.92	watchdog/0
12	root	rt	0	0	0	0	S	0.0	0.0	0:02.09	watchdog/1
13	root	rt	0	0	0	0	S	0.0	0.0	0:07.06	migration/1
14	root	20	0	0	0	0	S	0.0	0.0	0:00.75	ksoftirqd/1
16	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/1:0H
18	root	rt	0	0	0	0	S	0.0	0.0	0:02.64	watchdog/2
19	root	rt	0	0	0	0	S	0.0	0.0	0:03.93	migration/2
20	root	20	0	0	0	0	S	0.0	0.0	0:00.61	ksoftirqd/2
22	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/2:0H
24	root	rt	0	0	0	0	S	0.0	0.0	0:02.49	watchdog/3
25	root	rt	0	0	0	0	S	0.0	0.0	0:06.12	migration/3
26	root	20	0	0	0	0	S	0.0	0.0	0:01.69	ksoftirqd/3
28	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/3:0H
29	root	rt	0	0	0	0	S	0.0	0.0	0:02.60	watchdog/4
30	root	rt	0	0	0	0	S	0.0	0.0	0:04.29	migration/4
31	root	20	0	0	0	0	S	0.0	0.0	0:00.93	ksoftirqd/4
33	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/4:0H
35	root	rt	0	0	0	0	S	0.0	0.0	0:02.62	watchdog/5
36	root	rt	0	0	0	0	S	0.0	0.0	0:05.93	migration/5
37	root	20	0	0	0	0	S	0.0	0.0	0:00.47	ksoftirqd/5
39	root	0	-20	0	0	0	S	0.0	0.0	0:00.00	kworker/5:0H
40	root	rt	0	0	0	0	S	0.0	0.0	0:02.63	watchdog/6



檔案權限控制



檔案權限控制

chown

- 改變檔案擁有者及群組

Linux檔案的基本權限有九個，分別是owner/group/others

三種身份各有自己的 read/write/execute權限

檔案的權限字元為：『-rwxrwxrwx』

這九個權限是三個三個一組的！其中，我們可以使用數字來代表各個權限

r:4

w:2

x:1

例:如果不希望檔案被其它人及同群組人看到時，可以將檔案設成

`chmod 700 test.sh`