Compute Engine 　　　VM 執行個體 　　★ 建立執行個體 　⬆ 匯入 VM 　⟳ 重新整理 　▶ 開始/繼續 　■ 停止 　⏸ 暫停 　⟳ 重設 　🗑 刪除

▦	VM 執行個體
🔗	執行個體群組
▤	執行個體範本
▦	單一用戶群節點
▣	機器映像檔
▢	磁碟
▣	快照
▦	映像檔
✕	TPU
🔗	Compute Engine 相關遷移
▦	承諾使用折扣
▦	中繼資料
🔒	健康狀態檢查
◎	安全掃描
⟳	OS 修補程式管理服務
⚙	設定

💡 可以為 10 個執行個體調整大小，預估每月費用最多可省下 $310並且可提高效能。 瞭解詳情

🔍 篩選 VM 執行個體　　　　　　　　　　　　　　　　　　　　　　　　❓ 　　資料欄 ▾

	名稱 ∧	區域	建議	使用者	內部 IP	外部 IP	連接	
☐	✅ bf-prod-admin	asia-east1-b			192.168.11.2 (nic0)	35.229.229.206	SSH ▾	⋮
☐	✅ bf-prod-be	asia-east1-b	💡 每月省下 $161		192.168.11.5 (nic0)	34.80.79.238	SSH ▾	⋮
☐	✅ bf-prod-be-job	asia-east1-b	💡 每月省下 $64		192.168.11.6 (nic0)	35.221.223.12	SSH ▾	⋮
☐	✅ bf-prod-fdfs	asia-east1-b			192.168.11.7 (nic0)	35.194.238.247	SSH ▾	⋮
☐	✅ bf-prod-kafka	asia-east1-b			192.168.11.10 (nic0)	35.221.209.82	SSH ▾	⋮
☐	✅ bf-prod-mongo	asia-east1-b	💡 每月省下 $30		192.168.11.13 (nic0)	35.229.230.193	SSH ▾	⋮
☐	◯ bf-prod-mtwww	asia-east1-b			10.140.0.5 (nic0)	無	SSH ▾	⋮
☐	✅ bf-prod-mysql	asia-east1-b			192.168.11.12 (nic0)	35.236.189.56	SSH ▾	⋮
☐	✅ bf-prod-nacos	asia-east1-b			192.168.11.11 (nic0)	104.199.159.255	SSH ▾	⋮
☐	✅ bf-prod-redis	asia-east1-b	💡 每月省下 $18		192.168.11.16 (nic0)	35.201.230.14	SSH ▾	⋮
☐	✅ bf-prod-sentinel	asia-east1-b			192.168.11.9 (nic0)	34.80.159.192	SSH ▾	⋮
☐	✅ bf-prod-storm	asia-east1-b			192.168.11.8 (nic0)	35.236.132.112	SSH ▾	⋮
☐	✅ bf-prod-www	asia-east1-b		ig-bf-prod-www	192.168.11.15 (nic0)	34.80.176.149	SSH ▾	⋮
☐	✅ bf-prod-zp	asia-east1-b	💡 提升效能		192.168.11.4 (nic0)	35.206.250.123	SSH ▾	⋮
☐	✅ bf-qat	asia-east1-b	💡 提升效能		10.140.0.2 (nic0)	35.201.169.59 ⧉	SSH ▾	⋮
☐	✅ bf-qat-payproxy	asia-east1-b			10.140.0.7 (nic0)	104.199.176.247	SSH ▾	⋮
☐	✅ bf-uat-admin	asia-east1-b		ig-bf-uat-admin	192.168.1.2 (nic0)	35.206.250.245	SSH ▾	⋮
☐	✅ bf-uat-be	asia-east1-b			192.168.1.4 (nic0)	35.206.247.32	SSH ▾	⋮
☐	✅ bf-uat-be-job	asia-east1-b	💡 每月省下 $19		192.168.1.5 (nic0)	35.206.227.117	SSH ▾	⋮
☐	✅ bf-uat-fdfs	asia-east1-b			192.168.1.14 (nic0)	34.80.161.194	SSH ▾	⋮
☐	✅ bf-uat-kafka	asia-east1-b			192.168.1.9 (nic0)	35.236.188.189	SSH ▾	⋮

Compute Engine

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▣	機器映像檔
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磁碟   💾 建立磁碟   ⟳ 重新整理   🗑 刪除

▽ 篩選表格

	名稱 ↑	狀態	類型	大小	Zone(s)
☐	bf-prod-admin	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-prod-be	✅	標準永久磁碟	35 GB	asia-east1-b
☐	bf-prod-be-job	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-prod-fdfs	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-prod-kafka	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-prod-mongo	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-prod-mtwww	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-prod-mysql	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-prod-nacos	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-prod-redis	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-prod-sentinel	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-prod-storm	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-prod-www	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-prod-zp	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-qat	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-qat-disk-1	✅	標準永久磁碟	50 GB	asia-east1-b
☐	bf-qat-payproxy	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-uat-admin	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-uat-be	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-uat-be-job	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-uat-fdfs	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-uat-kafka	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-uat-mongo	✅	標準永久磁碟	20 GB	asia-east1-b
☐	bf-uat-mysql	✅	標準永久磁碟	20 GB	asia-east1-b

```
[root@bf-prod-be /]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs         59G    0   59G   0% /dev
tmpfs            59G    0   59G   0% /dev/shm
```

```
tmpfs           59G   34M   59G   1% /run
tmpfs           59G    0   59G   0% /sys/fs/cgroup
/dev/sda2       20G   18G  2.5G  88% /
/dev/sda1       200M  12M  189M   6% /boot/efi
tmpfs           12G    0   12G   0% /run/user/1002
tmpfs           12G    0   12G   0% /run/user/1001
tmpfs           12G    0   12G   0% /run/user/1011
tmpfs           12G    0   12G   0% /run/user/1003
tmpfs           12G    0   12G   0% /run/user/1005
tmpfs           12G    0   12G   0% /run/user/1012
tmpfs           12G    0   12G   0% /run/user/1007
[root@bf-prod-be /]# yum -y install cloud-utils-growpart
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: free.nchc.org.tw
 * epel: fedora.cs.nctu.edu.tw
 * extras: centos.mirror.hostinginside.com
 * updates: free.nchc.org.tw
Resolving Dependencies
--> Running transaction check
---> Package cloud-utils-growpart.noarch 0:0.29-5.el7 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

================================================================================
================================================================================
==================================================================
 Package                          Arch              Version
Repository              Size
================================================================================
================================================================================
==================================================================
Installing:
 cloud-utils-growpart             noarch            0.29-5.el7
base                    27 k

Transaction Summary
================================================================================
================================================================================
==================================================================
Install  1 Package

Total download size: 27 k
Installed size: 61 k
Downloading packages:
cloud-utils-growpart-0.29-5.el7.noarch.rpm
| 27 kB  00:00:00
```

```
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : cloud-utils-growpart-0.29-5.el7.noarch
1/1
  Verifying  : cloud-utils-growpart-0.29-5.el7.noarch
1/1

Installed:
  cloud-utils-growpart.noarch 0:0.29-5.el7

Complete!
[root@bf-prod-be /]# df -h
Filesystem       Size  Used Avail Use% Mounted on
devtmpfs          59G     0   59G   0% /dev
tmpfs             59G     0   59G   0% /dev/shm
tmpfs             59G   34M   59G   1% /run
tmpfs             59G     0   59G   0% /sys/fs/cgroup
/dev/sda2         20G   18G  2.5G  88% /
/dev/sda1        200M   12M  189M   6% /boot/efi
tmpfs             12G     0   12G   0% /run/user/1002
tmpfs             12G     0   12G   0% /run/user/1001
tmpfs             12G     0   12G   0% /run/user/1011
tmpfs             12G     0   12G   0% /run/user/1003
tmpfs             12G     0   12G   0% /run/user/1005
tmpfs             12G     0   12G   0% /run/user/1012
tmpfs             12G     0   12G   0% /run/user/1007
[root@bf-prod-be /]# growpart /dev/sda 2
CHANGED: partition=2 start=411648 old: size=41529344 end=41940992 new:
size=72988638 end=73400286
[root@bf-prod-be /]# df -h
Filesystem       Size  Used Avail Use% Mounted on
devtmpfs          59G     0   59G   0% /dev
tmpfs             59G     0   59G   0% /dev/shm
tmpfs             59G   34M   59G   1% /run
tmpfs             59G     0   59G   0% /sys/fs/cgroup
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tmpfs             12G     0   12G   0% /run/user/1005
tmpfs             12G     0   12G   0% /run/user/1012
tmpfs             12G     0   12G   0% /run/user/1007
[root@bf-prod-be /]# growpart /dev/sda 2
NOCHANGE: disk=/dev/sda partition=2: size=72988638, it cannot be grown
```

```
[root@bf-prod-be /]# xfs_growfs   /dev/sda2
meta-data=/dev/sda2          isize=512   agcount=4, agsize=1297792 blks
        =                    sectsz=4096  attr=2, projid32bit=1
        =                    crc=1        finobt=0 spinodes=0
data     =                    bsize=4096   blocks=5191168, imaxpct=25
        =                    sunit=0      swidth=0 blks
naming   =version 2           bsize=4096   ascii-ci=0 ftype=1
log      =internal            bsize=4096   blocks=2560, version=2
        =                    sectsz=4096  sunit=1 blks, lazy-count=1
realtime =none                extsz=4096   blocks=0, rtextents=0
data blocks changed from 5191168 to 9123579
[root@bf-prod-be /]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        59G    0   59G   0% /dev
tmpfs           59G    0   59G   0% /dev/shm
tmpfs           59G   34M  59G   1% /run
tmpfs           59G    0   59G   0% /sys/fs/cgroup
/dev/sda2       35G   18G   18G  50% /
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tmpfs           12G    0   12G   0% /run/user/1005
tmpfs           12G    0   12G   0% /run/user/1012
tmpfs           12G    0   12G   0% /run/user/1007
[root@bf-prod-be /]#
```