CANONICAL | ubuntu

How to back up instances

使用 snapshot 備份 instance

https://documentation.ubuntu.com/lxd/en/latest/howto/instances_backup/#how-to-back-up-instances

建立 snapshot

```
lester@node2:~$ sudo lxc snapshot v7 snapshotTest
```

查看 instance 的 snapshot

```
lester@node2:~$ sudo lxc info v7
```

```
Snapshots:
+--------------+----------------------+------------+----------+
|     NAME     |       TAKEN AT       | EXPIRES AT | STATEFUL |
+--------------+----------------------+------------+----------+
| snapshotTest | 2024/06/04 03:40 UTC |            | NO       |
+--------------+----------------------+------------+----------+
```

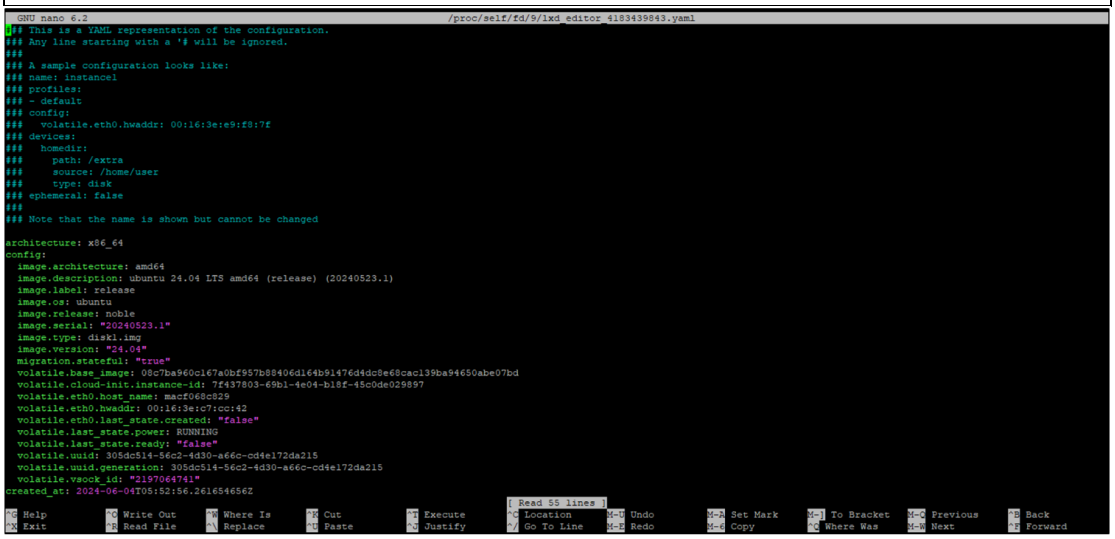
snapshot 詳細資訊

```
lester@node2:~$ sudo lxc config show v7/snapshotTest
```

```
root@node2:~# lxc config show v7/test
architecture: x86_64
config:
  image.architecture: amd64
  image.description: ubuntu 24.04 LTS amd64 (release) (20240523.1)
  image.label: release
  image.os: ubuntu
  image.release: noble
  image.serial: "20240523.1"
  image.type: disk1.img
  image.version: "24.04"
  migration.stateful: "true"
  volatile.base_image: 08c7ba960c167a0bf957b88406d164b91476d4dc8e68cac139ba94650abe07bd
  volatile.cloud-init.instance-id: 7f437803-69b1-4e04-b18f-45c0de029897
  volatile.eth0.host_name: macf068c829
  volatile.eth0.hwaddr: 00:16:3e:c7:cc:42
  volatile.eth0.last_state.created: "false"
  volatile.last_state.power: RUNNING
  volatile.last_state.ready: "false"
  volatile.uuid: 305dc514-56c2-4d30-a66c-cd4e172da215
  volatile.uuid.generation: 305dc514-56c2-4d30-a66c-cd4e172da215
  volatile.vsock_id: "2197064741"
created_at: 2024-06-04T05:52:56.261654656Z
expires_at: 0001-01-01T00:00:00Z
devices:
  root:
    path: /
    pool: remote
    size: 10GiB
    size.state: 4GiB
    type: disk
ephemeral: false
expanded_config:
  image.architecture: amd64
  image.description: ubuntu 24.04 LTS amd64 (release) (20240523.1)
  image.label: release
  image.os: ubuntu
  image.release: noble
  image.serial: "20240523.1"
  image.type: disk1.img
  image.version: "24.04"
  migration.stateful: "true"
  volatile.base_image: 08c7ba960c167a0bf957b88406d164b91476d4dc8e68cac139ba94650abe07bd
  volatile.cloud-init.instance-id: 7f437803-69b1-4e04-b18f-45c0de029897
```

編輯 snapshot

```
lester@node2:~$ sudo lxc config edit v7/snapshotTest
```



刪除 snapshot

```
lester@node2:~$ sudo lxc delete v7/snapshotTest
```

設定快照排程

```
lester@node2:~$ sudo lxc config set v7 snapshots.schedule @weekly
lester@node2:~$ sudo lxc config show v7
```

```
root@node2:~# lxc config show v7
architecture: x86_64
config:
  image.architecture: amd64
  image.description: ubuntu 24.04 LTS amd64 (release) (20240523.1)
  image.label: release
  image.os: ubuntu
  image.release: noble
  image.serial: "20240523.1"
  image.type: disk1.img
  image.version: "24.04"
  migration.stateful: "true"
  snapshots.schedule: '@weekly'
  volatile.base_image: 08c7ba960c167a0bf957b88406d164b91476d4dc8e68cac139ba94650abe07bd
  volatile.cloud-init.instance-id: 7f437803-69b1-4e04-b18f-45c0de029897
  volatile.eth0.host_name: macdfb2a619
  volatile.eth0.hwaddr: 00:16:3e:c7:cc:42
  volatile.eth0.last_state.created: "false"
  volatile.last_state.power: RUNNING
  volatile.last_state.ready: "false"
  volatile.uuid: 305dc514-56c2-4d30-a66c-cd4e172da215
  volatile.uuid.generation: e8654701-33a5-4f6b-842d-5c88676a1d6f
  volatile.vsock_id: "2197064741"
devices:
  root:
    path: /
    pool: remote
    size: 10GiB
    size.state: 4GiB
    type: disk
ephemeral: false
profiles:
- macvlan
stateful: false
description: ""
```

設定快照自動命名

```
lester@node2:~$ sudo config set v7 snapshots.pattern "snapshot-
{{ creation_date|date:'2006-01-02_15-04-05' }}"
```

```
Snapshots:
+-----------------------------+----------------------+------------+----------+
|             NAME            |       TAKEN AT       | EXPIRES AT | STATEFUL |
+-----------------------------+----------------------+------------+----------+
| snapshot-2024-06-04_08-36-49 | 2024/06/04 08:36 UTC |            | NO       |
+-----------------------------+----------------------+------------+----------+
```

設定快照自動過期

```
lester@node2:~$ sudo lxc config set v7 snapshots.expiry "1d"
```

參數參考：

1M、2H、3d、4w、5m、6y

還原 snapshot

```
lester@node2:~$ sudo lxc restore v7 snapshotTest
```

使用 export 備份 instance

匯出 instance

```
lester@node2:~$ sudo lxc export migrate migrate.tar.gz
```

額外參數

--compression=bzip

預設為 **gzip**，可以指定為其他壓縮格式（例如：bzip）

--instance-only

備份時不包含 snapshot

匯入 instance

```
lester@node2:~$ sudo import migrate.tar.gz migrateImport
```