Incus System containers and VMs

CONCEPTS

Incus runs system containers (a full OS with init, like a light VM) and, with --vm, real QEMU virtual machines. Both use the same commands.

Remote images: image server
↓ `incus launch`
Image cached locally
↓ `incus launch`
Instance container or VM; profiles + devices
↓ `incus publish`

INSTANCES

`incus launch` *`<image>`* *`<name>`**
Create and start an instance

`incus launch` *`<image>`* *`<name>`* **`--vm`**
Launch as a virtual machine

`incus init` *`<image>`* *`<name>`**
Create without starting

`incus list`
List instances with state and IPs

`incus start` *`<name>`**
Start an instance

`incus stop` *`<name>`**
Stop an instance

`incus restart` *`<name>`**
Restart an instance

`incus delete` *`<name>`**
Delete a stopped instance

`incus info` *`<name>`**
Show status, network and snapshots

`incus launch` *`<image>`* *`<name>`* **`-c limits.cpu=2 -c limits.memory=2GiB`**
Launch with resource limits

ACCESS AND FILES

`incus shell` *`<name>`**
Login shell as root

`incus exec` *`<name>`* **`--`** *`<cmd>`**
Run a command inside

ACCESS AND FILES (cont.)

`incus file push` *`<local>`* *`<name>`*`/`*`<path>`**
Copy a file into an instance

`incus file pull` *`<name>`*`/`*`<path>`* *`<local>`**
Copy a file out

IMAGES

`incus image list images:` *`<filter>`**
Search a remote image server

`incus publish` *`<name>`* **`--alias`** *`<alias>`**
Turn an instance into an image

CONFIG AND PROFILES

`incus config show` *`<name>`**
Show instance config

`incus config set` *`<name>`* *`<key>`*`=`*`<value>`**
Set an option

`incus config device add` *`<name>`* *`<dev>`* **`disk source=`***`<host>`* **`path=`***`<dir>`**
Mount a host directory

`incus config device add` *`<name>`* *`<dev>`* **`proxy listen=tcp:0.0.0.0:`***`<p>`* **`connect=tcp:127.0.0.1:`***`<p>`**
Publish a port

SNAPSHOTS AND COPIES

`incus snapshot create` *`<name>`* *`<snap>`**
Create a snapshot

`incus snapshot list` *`<name>`**
List snapshots

`incus snapshot restore` *`<name>`* *`<snap>`**
Roll back to a snapshot

`incus copy` *`<name>`* *`<new>`**
Clone an instance