

Docker rates.sh

[docker](#), [commands](#)

This prints out a table of instantaneous network bandwidth use.

```
#!/usr/bin/env bash
# Instantaneous per-container network rates (B/s). No extra packages.
INTERVAL=1
TMPDIR=${TMPDIR:-/tmp}
PREV="$TMPDIR/net.prev.$$ .txt"
NOW="$TMPDIR/net.now.$$ .txt"
OUT="$TMPDIR/net.out.$$ .txt"

cleanup(){ rm -f "$PREV" "$NOW" "$OUT"; exit 0; }
trap cleanup INT TERM

collect() {
    target="$1"
    : > "$target"
    docker ps -q | while read -r id; do
        [ -z "$id" ] && continue
        name=$(docker inspect --format '{{.Name}}' "$id" 2>/dev/null | sed
's#/##')
        pid=$(docker inspect --format '{{.State.Pid}}' "$id" 2>/dev/null)
        if [ -r "/proc/$pid/net/dev" ]; then
            read rx tx <<(awk 'NR>2{rx+=$2;tx+=$10}END{print rx,tx}'
/proc/"$pid"/net/dev 2>/dev/null || echo "0 0")
        else
            rx=0; tx=0
        fi
        # id<TAB>name<TAB>pid<TAB>rx<TAB>tx
        printf '%s\t%s\t%s\t%s\t%s\n' "$id" "$name" "$pid" "$rx" "$tx" >>
"$target"
    done
}

# seed previous snapshot
collect "$PREV"
sleep "$INTERVAL"

while true; do
    ts=$(date +"%F %T")
    collect "$NOW"

    # load previous counters into associative arrays
    declare -A PRX PTX PNAME
    while IFS=$'\t' read -r id name pid rx tx; do
        PRX["$id"]=$rx
        PTX["$id"]=$tx
    done
done

# load previous counters into associative arrays
declare -A PRX PTX PNAME
while IFS=$'\t' read -r id name pid rx tx; do
    PRX["$id"]=$rx
    PTX["$id"]=$tx
done
```

```
PNAME["$id"]=$name
done < "$PREV"

: > "$OUT"
while IFS=$'\t' read -r id name pid arx atx; do
  brx=${PRX[$id]:-0}
  btx=${PTX[$id]:-0}
  rx_rate=$((arx - brx))
  tx_rate=$((atx - btx))
  [ "$rx_rate" -lt 0 ] && rx_rate=0
  [ "$tx_rate" -lt 0 ] && tx_rate=0
  total=$((rx_rate + tx_rate))
  # total<TAB>name<TAB>rx_rate<TAB>tx_rate<TAB>total
  printf '%d\t%s\t%d\t%d\t%d\n' "$total" "$name" "$rx_rate" "$tx_rate"
"$total" >> "$OUT"
done < "$NOW"

echo "==== $ts (rates over ${INTERVAL}s) ====="
if [ -s "$OUT" ]; then
  sort -t $'\t' -nr -k1,1 "$OUT" | awk -F'\t' '{printf "%-28s RX:%8d B/s
TX:%8d B/s TOT:%8d B/s\n", $2, $3, $4, $5}'
else
  echo "No containers found."
fi

mv "$NOW" "$PREV"
sleep "$INTERVAL"
done
```

From:
<https://rpi64-wired.seanys.com/> - It's in The Wiki

Permanent link:
https://rpi64-wired.seanys.com/docker_rates.sh?rev=1762067064

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