

# Hosts

Hosts are the physical servers on which jobs run.

### Hosts Command

The **hosts** command shows host servers based on operational status, groups, and scheduler assignments in a variety of data formats.

Usage: **dbatch hosts [options] [arguments]**

### Options

| Option                        | Function                                                                         |
|-------------------------------|----------------------------------------------------------------------------------|
| -?, --help                    | Show the help text                                                               |
| -l, --long                    | Show verbose output with all data columns                                        |
| -s, --short                   | Show short output with 4 data columns                                            |
| -n, --name-only               | Show only the host names. This shortest output omits headers                     |
| -H, --noheader                | Omit headers on the other output formats                                         |
| --active                      | Select active hosts                                                              |
| --sick                        | Select sick hosts                                                                |
| --suspended                   | Select suspended hosts that are still connected                                  |
| --status-duration=n [s m h d] | Select hosts that have been running for longer than n seconds minutes hours days |
| --cnode-group=<group>         | Select hosts by the compute-node <group> name                                    |
| --scheduler=<scheduler>       | Select hosts by <scheduler> name                                                 |

### Arguments

| Argument | Function                                          |
|----------|---------------------------------------------------|
| -regex   | Regular expressions to match hostnames [optional] |

## Examples

In the following examples, only a partial list of the otherwise lengthy list may appear. Whitespace between columns has been decreased for readability on the page.

#### dbatch hosts

The default output shows 8 columns with headers.

|              |             |               |        |              |              |       |      |
|--------------|-------------|---------------|--------|--------------|--------------|-------|------|
| nodename     | cnode-group | schedulername | status | duration     | soc/cpu/ram  | jobs  | load |
| blackhawk002 | bigram      | svc-dbatch-01 | active | 014-12:36:20 | 002/012/0384 | 00/07 | 0.0  |
| blackhawk003 | bigram      | svc-dbatch-01 | active | 014-12:36:10 | 002/012/0384 | 00/07 | 0.2  |
| buffalo004   | default     | svc-dbatch-02 | active | 014-12:36:20 | 001/008/0064 | 00/02 | 1.1  |
| harrier00111 | harrier     | svc-dbatch-01 | active | 014-12:36:20 | 001/008/0128 | 00/03 | 2.1  |
| harrier00112 | harrier     | svc-dbatch-02 | active | 014-12:36:17 | 001/008/0128 | 00/03 | 2.0  |
| hornet001    | hornet      | svc-dbatch-01 | active | 014-12:35:51 | 002/024/0575 | 00/02 | 0.1  |
| hornet002    | hornet      | svc-dbatch-01 | active | 014-12:36:20 | 002/024/0575 | 00/02 | 1.0  |
| hornet004    | hornet      | svc-dbatch-01 | active | 014-12:36:20 | 002/024/0575 | 00/02 | 13.0 |
| hornet005    | hornet      | svc-dbatch-02 | active | 014-12:36:16 | 002/024/0575 | 00/02 | 13.2 |

#### dbatch hosts -H

The no-header output shows the specified output, but without headers.

|              |             |               |        |              |              |       |      |
|--------------|-------------|---------------|--------|--------------|--------------|-------|------|
| nodename     | cnode-group | schedulername | status | duration     | soc/cpu/ram  | jobs  | load |
| blackhawk002 | bigram      | svc-dbatch-01 | active | 014-12:36:20 | 002/012/0384 | 00/07 | 0.0  |
| blackhawk003 | bigram      | svc-dbatch-01 | active | 014-12:36:10 | 002/012/0384 | 00/07 | 0.2  |
| buffalo004   | default     | svc-dbatch-02 | active | 014-12:36:20 | 001/008/0064 | 00/02 | 1.1  |
| harrier00111 | harrier     | svc-dbatch-01 | active | 014-12:36:20 | 001/008/0128 | 00/03 | 2.1  |
| harrier00112 | harrier     | svc-dbatch-02 | active | 014-12:36:17 | 001/008/0128 | 00/03 | 2.0  |
| hornet001    | hornet      | svc-dbatch-01 | active | 014-12:35:51 | 002/024/0575 | 00/02 | 0.1  |
| hornet002    | hornet      | svc-dbatch-01 | active | 014-12:36:20 | 002/024/0575 | 00/02 | 1.0  |
| hornet004    | hornet      | svc-dbatch-01 | active | 014-12:36:20 | 002/024/0575 | 00/02 | 13.0 |
| hornet005    | hornet      | svc-dbatch-02 | active | 014-12:36:16 | 002/024/0575 | 00/02 | 13.2 |

#### dbatch hosts -l

The long output shows all columns with headers.

|               |             |               |        |              |              |       |      |       |       |      |      |     |            |                                          |
|---------------|-------------|---------------|--------|--------------|--------------|-------|------|-------|-------|------|------|-----|------------|------------------------------------------|
| nodename      | cnode-group | schedulername | status | duration     | soc/cpu/ram  | jobs  | load | rslot | rcore | rcpu | rmem | r%  | version    | resources                                |
| blackhawk002  | bigram      | svc-dbatch-01 | active | 014-12:30:06 | 002/012/0384 | 00/07 | 0.1  | 7     | 12    | 12   | 384  | 100 | 1.95.1.e17 | <bigram ga redhat7>                      |
| blackhawk003  | bigram      | svc-dbatch-01 | active | 014-12:29:55 | 002/012/0384 | 00/07 | 0.5  | 7     | 12    | 12   | 384  | 100 | 1.95.1.e17 | <bigram ga redhat7>                      |
| buffalo004    | default     | svc-dbatch-02 | active | 014-12:30:06 | 001/008/0064 | 00/02 | 1.1  | 2     | 8     | 8    | 64   | 100 | 1.95.1.e17 | <default ga synopsys>                    |
| harrier00111  | harrier     | svc-dbatch-01 | active | 014-12:30:05 | 001/008/0128 | 00/03 | 2.0  | 3     | 8     | 8    | 128  | 100 | 1.95.1.e17 | <harrier ga>                             |
| harrier00112  | harrier     | svc-dbatch-02 | active | 014-12:30:03 | 001/008/0128 | 00/03 | 2.1  | 3     | 8     | 8    | 128  | 100 | 1.95.1.e17 | <harrier ga>                             |
| hornet001     | hornet      | svc-dbatch-01 | active | 014-12:29:36 | 002/024/0575 | 00/02 | 0.1  | 2     | 24    | 24   | 575  | 100 | 1.95.1.e17 | <hornet ga>                              |
| hornet002     | hornet      | svc-dbatch-01 | active | 014-12:30:05 | 002/024/0575 | 00/02 | 1.1  | 2     | 24    | 24   | 575  | 100 | 1.95.1.e17 | <hornet ga>                              |
| hornet004     | hornet      | svc-dbatch-01 | active | 014-12:30:06 | 002/024/0575 | 01/02 | 14.0 | 1     | 24    | 24   | 575  | 100 | 1.95.1.e17 | <hornet ga>                              |
| hornet005     | hornet      | svc-dbatch-02 | active | 014-12:30:02 | 002/024/0575 | 00/02 | 13.1 | 2     | 24    | 24   | 575  | 100 | 1.95.1.e17 | <hornet ga>                              |
| kestrel010101 | marc_test   | svc-dbatch-02 | active | 014-12:30:02 | 001/004/0063 | 00/02 | 2.1  | 2     | 4     | 4    | 63   | 100 | 1.95.1.e17 | <marc_test ga priority redhat7 synopsys> |
| kestrel010201 | marc_test   | svc-dbatch-02 | active | 010-01:44:09 | 001/004/0063 | 00/02 | 1.9  | 2     | 4     | 4    | 63   | 100 | 1.95.1.e17 | <marc_test ga priority redhat7 synopsys> |
| kestrel010202 | marc_test   | svc-dbatch-01 | active | 014-12:30:06 | 001/004/0063 | 00/02 | 3.3  | 2     | 4     | 4    | 63   | 100 | 1.95.1.e17 | <marc_test ga priority redhat7 synopsys> |
| kestrel010301 | marc_test   | svc-dbatch-01 | active | 014-12:29:54 | 001/004/0063 | 00/02 | 2.0  | 2     | 4     | 4    | 63   | 100 | 1.95.1.e17 | <marc_test ga priority redhat7 synopsys> |

dbatch hosts -s

The short output shows the node name, scheduler, status, and duration with headers.

| nodename     | schedulername | status | duration     |
|--------------|---------------|--------|--------------|
| blackhawk002 | svc-dbatch-01 | active | 014-12:30:52 |
| blackhawk003 | svc-dbatch-01 | active | 014-12:30:42 |
| buffalo004   | svc-dbatch-02 | active | 014-12:30:52 |
| harrier00111 | svc-dbatch-01 | active | 014-12:30:52 |
| harrier00112 | svc-dbatch-02 | active | 014-12:30:49 |
| hornet001    | svc-dbatch-01 | active | 014-12:30:23 |
| hornet002    | svc-dbatch-01 | active | 014-12:30:52 |
| hornet004    | svc-dbatch-01 | active | 014-12:30:52 |
| hornet005    | svc-dbatch-02 | active | 014-12:30:48 |

dbatch hosts -n

The name-only option shows only a column of host names without a header.

|              |
|--------------|
| blackhawk002 |
| blackhawk003 |
| buffalo004   |
| harrier00111 |
| harrier00112 |
| hornet001    |
| hornet002    |
| hornet004    |
| hornet005    |

dbatch hosts --active | grep sky

This shows a complete set of the active servers filtered by a regular expression

|              |           |               |        |              |              |       |     |
|--------------|-----------|---------------|--------|--------------|--------------|-------|-----|
| skymaster001 | skymaster | svc-dbatch-02 | active | 014-14:33:02 | 002/064/0511 | 00/02 | 3.6 |
| skymaster002 | skymaster | svc-dbatch-01 | active | 014-14:32:54 | 002/064/0511 | 01/02 | 3.5 |
| skymaster004 | skymaster | svc-dbatch-01 | active | 014-14:33:05 | 002/064/0511 | 02/02 | 2.3 |
| skymaster005 | skymaster | svc-dbatch-02 | active | 014-14:33:00 | 002/064/0511 | 00/02 | 1.9 |
| skymaster006 | skymaster | svc-dbatch-01 | active | 014-14:32:49 | 002/032/0511 | 00/02 | 1.8 |
| skymaster007 | skymaster | svc-dbatch-02 | active | 014-14:32:53 | 002/064/0511 | 00/02 | 2.4 |
| skymaster008 | skymaster | svc-dbatch-02 | active | 014-14:33:02 | 002/064/0511 | 00/02 | 1.2 |
| skymaster009 | skymaster | svc-dbatch-01 | active | 010-03:47:09 | 002/064/0511 | 01/02 | 2.8 |
| skymaster010 | skymaster | svc-dbatch-01 | active | 010-03:47:05 | 002/064/0511 | 02/02 | 2.1 |

dbatch hosts --sick

This shows a complete set of the sick servers

| nodename     | cnode-group | schedulername | status | duration     | soc/cpu/ram  | jobs  | load  |
|--------------|-------------|---------------|--------|--------------|--------------|-------|-------|
| otter01118   | otter       | svc-dbatch-02 | sick   | 006-16:01:53 | 001/008/0064 | 00/02 | 0.0   |
| otter01914   | otter       | svc-dbatch-02 | sick   | 024-05:19:58 | 001/008/0064 | 00/02 | 475.1 |
| skymaster003 | skymaster   | svc-dbatch-02 | sick   | 010-07:32:17 | 002/064/0511 | 00/02 | 1.8   |

dbatch hosts --status-duration=14d --cnode-group=hornet --scheduler=svc-dbatch-02

This shows a complete set that have been running for at least 14 days from the harrier group and the svc-dbatch-02 scheduler.

| nodename  | cnode-group | schedulername | status | duration     | soc/cpu/ram  | jobs  | load |
|-----------|-------------|---------------|--------|--------------|--------------|-------|------|
| nodename  | cnode-group | schedulername | status | duration     | soc/cpu/ram  | jobs  | load |
| hornet005 | hornet      | svc-dbatch-02 | active | 014-14:48:09 | 002/024/0575 | 01/02 | 13.1 |
| hornet006 | hornet      | svc-dbatch-02 | active | 014-14:48:09 | 002/024/0575 | 02/02 | 0.8  |
| hornet011 | hornet      | svc-dbatch-02 | active | 014-14:48:01 | 002/024/0575 | 01/02 | 8.7  |
| hornet015 | hornet      | svc-dbatch-02 | active | 014-14:48:09 | 002/024/0575 | 00/02 | 7.7  |
| hornet017 | hornet      | svc-dbatch-02 | active | 014-14:48:13 | 002/024/0575 | 01/02 | 1.1  |
| hornet021 | hornet      | svc-dbatch-02 | active | 014-14:48:01 | 002/024/0575 | 02/02 | 8.2  |
| hornet024 | hornet      | svc-dbatch-02 | active | 014-14:48:09 | 002/024/0575 | 00/02 | 5.3  |
| hornet025 | hornet      | svc-dbatch-02 | active | 014-14:48:10 | 002/024/0575 | 01/02 | 8.0  |
| hornet026 | hornet      | svc-dbatch-02 | active | 014-14:48:09 | 002/024/0575 | 02/02 | 29.0 |
| hornet028 | hornet      | svc-dbatch-02 | active | 014-14:48:13 | 002/024/0575 | 00/02 | 0.1  |
| hornet030 | hornet      | svc-dbatch-02 | active | 014-14:47:57 | 002/024/0575 | 00/02 | 0.0  |