



CLI - Linux Command Line Mode

Avi Technical Reference (v17.2)

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In Avi Vantage 16.3, a set of CLI enhancements are introduced with the following in mind:

- Easy automation using the CLI
- Search for specific keywords in the configuration using the CLI
- Quick cut-and-paste to make modifications or resolve some issues with the CLI

A new CLI mode, `linux_command_line`, is introduced in 16.3. This mode allows the user to interact with the CLI in a fashion similar to a traditional Linux command line program, where all the arguments are presented in `--parameter value` format. Multi-line configuration of object uses a bash heredoc style. You can find more information on this under https://en.wikipedia.org/wiki/Here_document.

In the `linux_command_line` mode, the entire object is presented in the form of `--parameter value` where each parameter represents a field in the object specified in a fully qualified path. An example of this is:

- IP address of a server in a pool is specified as `--servers.index.ip`. This is equivalent to referring to this attribute as `pool[?servers?][index][?ip?]`. A quick note, however, is that index starts with 1 in the CLI but is converted to 0-based in the API interactions.

```
terminal mode linux_command_line
terminal --linux_cmd_output single_line
show pool p2
--uuid pool-b0cb56dc-cc24-4b87-9d19-7bf790d2e582 --default_server_port 80 --graceful_disable_timeout 1 --connect
```

Configuration using the Linux Command Line mode

```
configure pool p2 --uuid pool-7fce112f-c340-4c31-8c65-95e52f4b85ba --servers.1.ip 3.3.3.3 --servers.1.hostname 3.3.3.3
Updating an existing object.
p2 --uuid pool-7fce112f-c340-4c31-8c65-95e52f4b85ba --servers.1.ip 3.3.3.3 --servers.1.hostname 3.3.3.3 --servers.2.ip
```

Some objects are fairly large and so, interacting with the CLI with all these parameters specified in a single line may quickly become cumbersome. To help with this, a CLI setting to change the linux command output as `multi_line` has been added. This essentially allows the interaction with the CLI with one parameter in each line. An example of this can be found below.

```
terminal --linux_cmd_output multi_line

show pool p2
--uuid pool-7fce112f-c340-4c31-8c65-95e52f4b85ba
--servers.1.ip 3.3.3.3
--servers.1.hostname 3.3.3.3
--servers.2.ip 2.2.2.2
--servers.2.hostname 2.2.2.2
--servers.3.ip 1.1.1.1
--servers.3.hostname 1.1.1.1
```

```
--server_count 3
--tenant_ref admin

configure pool p2 << END
--uuid pool-7fcell12f-c340-4c31-8c65-95e52f4b85ba
--servers.1.ip 3.3.3.3
--servers.1.hostname 3.3.3.3
--servers.2.ip 2.2.2.2
--servers.2.hostname 2.2.2.2
--servers.3.ip 1.1.1.1
--servers.3.hostname 1.1.1.1
--servers.4.ip 4.4.4.4
--servers.4.hostname 4.4.4.4
--tenant_ref admin
END

Updating an existing object.
--uuid pool-7fcell12f-c340-4c31-8c65-95e52f4b85ba
--servers.1.ip 3.3.3.3
--servers.1.hostname 3.3.3.3
--servers.2.ip 2.2.2.2
--servers.2.hostname 2.2.2.2
--servers.3.ip 1.1.1.1
--servers.3.hostname 1.1.1.1
--servers.4.ip 4.4.4.4
--servers.4.hostname 4.4.4.4
--server_count 4
--tenant_ref admin
```