



# Accessing Avi Linux CLI as a non-admin user using SSH client

Avi Technical Reference (v18.2)

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## Background

This article explains how a non-admin user account is used to login to Avi Linux CLI and how a non-admin user can have privileges similar to an *admin* user.

An SSH session to Avi Linux CLI is available only for *admin* username. Even if a user is configured as a *super-user*, he cannot login to Avi Linux CLI. Users other than *admin*, including *super-users* (whether local or remote), can only log in using `cli@<Avi Controller IP>` command. If a non-admin user, even if it is configured as a *super-user*, tries to SSH to Avi Controller IP address, the system will return an *Access Denied* error as shown below.

```
login as: testuser
Avi Cloud Controller
Avi Networks software, Copyright (C) 2013-2017 by Avi Networks, Inc.
All rights reserved.
Version: 17.1.8
Date: 2017-09-21 06:03:07 UTC
Build: 9020
Management: 10.10.1.1/23 UP
Gateway: 10.10.1.10 UP
Esx and Openstackgs1b@10.10.1.1's password:
Access denied
testuser@10.10.30.55's password:
```

## Instructions

Follow the steps below to SSH into Avi CLI using a non-admin user account. In this example, the non-admin user is configured as a *super-user* too. \* Open an SSH client and use `cli@<Avi Controller IP>` command. Replace the Avi Controller IP with the IP of the Avi Controller for which access is required.

- Provide the credentials when prompted for username as shown in the below screenshot. In the below example, a user account with username *testuser* is used, which is also configured as a *super-user* on Avi Vantage.

```
Using username "cli".
Avi Cloud Controller
Avi Networks software, Copyright (C) 2013-2017 by Avi Networks, Inc.
All rights reserved.
Version: 17.1.8
Date: 2017-09-21 06:03:07 UTC
Build: 9020
Management: 10.10.1.1/23 UP
Gateway: 10.10.1.1 UP
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
```

```

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the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
Last login: Fri Oct 27 10:32:02 2017 from 10.10.8.11
Launching a CLI shell in a container
No handlers could be found for logger "docker.auth.auth"
Login: testuser
Password:

```

- After providing the password as shown in the above CLI snippet, the user gets access to the Avi shell.

```
[admin:avi-controller]: >
```

From the Avi shell prompt, the user can run all the `show` commands and shell commands.

#### Checking logs using a *super-user* account

Use the account mentioned in the previous steps and use `bash` command to go the `bash` prompt. As it is a container with no persistent storage, none of the log files are visible when `ls` command is used.

```

[admin:avi-controller]: > bash
root@04de723c268a:/#
root@04de723c268a:/# cd /opt
root@04de723c268a:/opt# ls
root@04de723c268a:/opt# <- No directory in /opt as seen here

```

#### Using username *avidebuguser*

Starting with Avi Vantage 17.1 release, a non-admin user (which is also a super-user) can be associated with the Avi Controller by using `attach <Avi Controller IP>` command. This will provide Avi Controller container access to the user as an *avidebuguser*. The *avidebuguser* is also a *sudo* user. Attach option is available only if the user (local or remote) is configured as a *super-user*.

```

[admin:avi-controller]: > attach controller 10.10.1.10
No handlers could be found for logger "root"
Warning: Permanently added '10.10.1.10' (ECDSA) to the list of known hosts.
Avi Cloud Controller
Avi Networks software, Copyright (C) 2013-2017 by Avi Networks, Inc.
All rights reserved.
Version: 17.1.8
Date: 2017-09-21 06:03:07 UTC
Build: 9020
Management: 10.10.1.10/23 UP
Gateway: 10.10.1.1 UP

```

```
Esx and OpenstackWelcome, this is your controller!!!
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php
Last login: Fri Oct 27 10:32:36 2017 from 172.17.0.2
avidebuguser@avi-controller:~$
```

- Try `ls` command to check the log files as shown below.

```
avidebuguser@avi-controller-2:/opt$ ls
*avi zookeeper-3.4.6*
```

```
avidebuguser@avi-controller-2:/opt/avi/log$ pwd
/opt/avi/log
```

## Additional Information

For more information on Avi Linux CLI and Avi CLI access, refer to [Avi CLI - Linux Command Line Mode](#) and [Avi Vantage CLI access](#), respectively.