

AZOTEL S03-05 v101 (2013-12)

S03 – Quick Start Guides RADIUS Server Quick Start Guide



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1. Scope

The purpose of this document is to provide a quick start guide to help with the initial configuration of your Azotel RADIUS server. Note that the same procedure will also apply to get an un-configured SIMPLer server online in your network.

2. Quick Installation

The process of putting a RADIUS server into an operator's network can be split into two phases:

- Connecting up the RADIUS server this task is performed by the operator and is considered being done when the RADIUS server is remotely accessible to Azotel engineers. The steps outlined in the following sections should walk the operator through that process.
- 2. **RADIUS service setup** Azotel engineers perform this task remotely once a remote access to the RADIUS server is established.

Below please find the steps to complete phase one:

2.1 Connect the RADIUS server

- 1. Identify an optimum location for the RADIUS server. The best place for the server is usually at the collocation centre close to the broadband feed.
- 2. Locate the Ethernet socket with the lowest number (i.e. LAN1 or 0-0) on the RADIUS server and connect to your network using appropriate cabling (typically 1000BASE-T).
- 3. Connect the power cable to the RADIUS server's power port.
- Connect a monitor and a keyboard to the RADIUS server note that these will be required only during the setup process.
- 5. Press the power button on the front panel to power up the RADIUS server.

2.2 Set IP Details on RADIUS server

1. Login to the system shell using following credentials:

Password: azotel	ł	Username: root	
	1	Password: azotel	

- 2. Type the below command to open vi editor and change the IP address on the first available Ethernet interface. It will bring a screen as displayed on Figure 2.2.1
 - vi /etc/sysconfig/network-scripts/ifcfg-eth0

# Advanced Micro Devices	[AMD]	79c970	[PCnet32	LANCE]
DEVICE=eth0				
ONB00T=yes				
B00TPR0T0=none				
TYPE=Ethernet				
USERCTL=no				
IPV6INIT=no				
PEERDNS=yes				
NETMASK=255.255.255.0				
IPADDR=192.168.80.128				
GATEWAY=192.168.80.2				
~				
~				
~				
~				
~				
~				
~				
~				
~				
~				
~				
" (atc/ovscapfig/patwork s	crint	. /ifcfa	oth0" 111	2060
/etc/sysconig/network-s	cripts	s/ircig-	ecno III	_, 2000

Azotel Confidential Proprietary © Azotel Technologies Ltd 2024 Fig. 2.2.1 Edit eth0 details with vi

- 3. Press the 'Insert' key on your keyboard to change vi mode to edition.
- 4. Alter IP details to match your network. Note that you should use a Public IP address on the RADIUS server as Azotel engineers will need to access it remotely.
- 5. Press 'ESC' key on your keyboard to escape from the edition mode in vi editor.
- 6. Type :wq! To save settings and exit from vi editor.
- 7. To restart network interfaces type: /etc/init.d/network restart

```
[root@localhost ~]# /etc/init.d/network restart
Shutting down interface eth0:
                                                               0K 1
                                                            ſ
Shutting down loopback interface:
                                                            [
                                                               0K ]
Disabling IPv4 packet forwarding: net.ipv4.ip_forward = 0
                                                               0K
                                                                   1
                                                            Γ
Bringing up loopback interface:
                                                            [
                                                               0K
                                                                   1
Bringing up interface eth0:
                                                            ]
                                                               0K ]
[root@localhost ~]#
```

Fig. 2.2.2 Restart network interface

2.3 Test IP connectivity

1. Type the command below to test the IP connectivity of the server:

ping 84.203.220.3 -c 1

```
[root@localhost ~]# ping 84.203.220.3 -c 1
PING 84.203.220.3 (84.203.220.3) 56(84) bytes of data.
64 bytes from 84.203.220.3: icmp_seq=1 ttl=128 time=136 ms
--- 84.203.220.3 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 136.468/136.468/136.468/0.000 ms
[root@localhost ~]#
```

Fig. 2.3.1 Ping test results

- 2. The ping test is successful if the results state that there was at least 1 packet received. If the ping test is successful proceed to point 2.4 of this guide, otherwise perform the following checks and re-run the ping test:
 - Check if the Ethernet cable is connected properly and the lights on the interface port are lid both on the RADIUS server and the network device server is connected to (i.e. switch)
 - Go through the 2.2 steps again making sure that the IP details used to update server with are correct.

2.4 Send email to Azotel

Send an email to Azotel support mailbox (support@azotel.com) to notify Azotel about the RADIUS server pre-setup being complete. Make sure to pass on IP details of the server in the email. Azotel team will check if there is a remote connection to the RADIUS server and start the second phase of the RADIUS server setup. Note that the preferred, email minimal format is following:

Email Subject:

[operator] RADIUS server pre-setup complete

Email Body:

IP: X.Y.Z.A

Annex A: Change history

Change history												
Date	Author(s)	Subject/Comment	Old	New								
01-05-13	GAWL	Draft	n/a	001								
10-05-13	Emma	Document Updated	001	002								
15-05-13	oharej	Default password changed to "azotel".	002	003								
18-06-13	Paul	Changed doc's title, copyright and correct year, doc num on all pages	003	100								
05-12-13	emma	Added note on SIMPLer servers to scope	100	101								