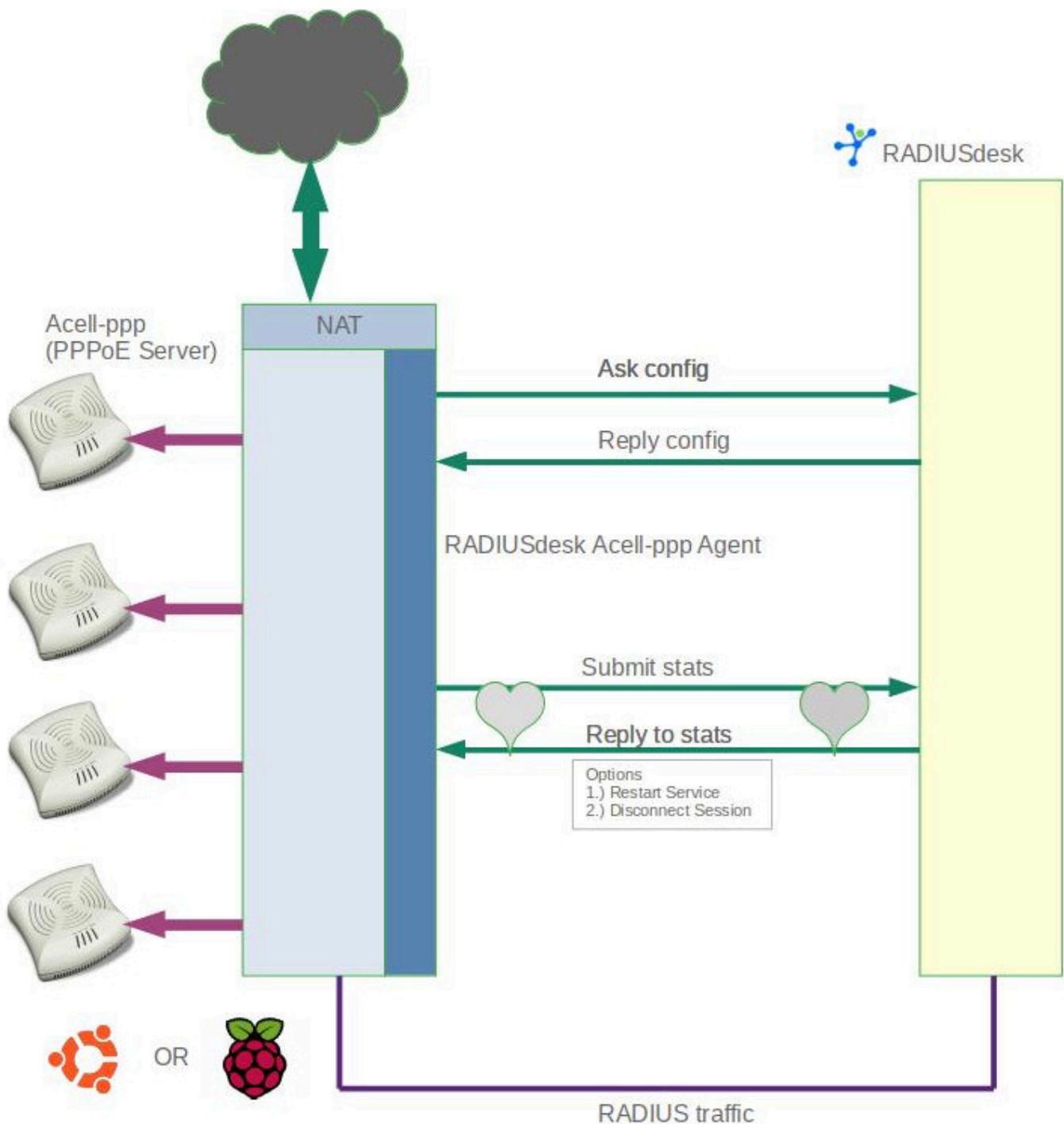


# Accel-ppp Support in RADIUSdesk

## Introduction

- As of November 2023, RADIUSdesk can centrally manage Accel-ppp on Ubuntu and Raspberry Pi based devices.
- This is done by a lightweight agent that interacts with RADIUSdesk.
- Each device now has the ability to be configured though a web applet on RADIUSdesk.
- The agent also reports back to RADIUSdesk on the status of the service and any active sessions.
- The following graphic shows how everything fits together.



# Accel-ppp Servers Applet

- The Accel-ppp Server applet can be found under the **Other** grouping.
- It has three sub tabs
  - The **Servers** tab displays all of the Accel-ppp servers which are managed centrally.
  - The **Profiles** tab is used to define various profiles which are associated with one of more servers.
  - The **New Arrivals** lists Accel-ppp servers which reported to RADIUSdesk but which require on-boarding.

## Profiles

- We will cover Profiles first although it is the second sub-tab since it is required to have a profile ready in order to define a server.
- Profiles are used to manage the major part of the settings which will be applied to a server.
- Settings are dynamically formulated in the reply when the RADIUSdesk Accel-ppp agent contacts RADIUSdesk.
- The settings for each Accel-ppp server can be divided into three categories.
  - **Common** settings which hardly differ between servers. (This is the bulk of them)
  - **Unique** settings which you might want to tweak should the need arise.
  - **Specific** settings which are required to differentiate one Accel-ppp server from another.

## Common Settings (Base Configs)

- Common settings are stored inside a CakePHP config file.  
(*/var/www/rdcore/cake4/rd\_cake/config/AccelPresets.php*)
- One can define various sets of these common settings, giving each a **unique name**.

```
<?php
//Default settings for accel-ppp

$config['AccelPresets']['Default'] = [

    'modules' => [
        'log_file',
        'pppoe',
        'auth_pap',
        'radius',
        'ippool',
        'shaper',
    ],
    'core' => [
        'log-error' => '/var/log/accel-ppp/core.log',
        'thread-count' => 4,
    ],
],
```

- We refer to them as **Base Configs**.
- There is one already called **Default**.
- The keys of these configs maps to sections of the **/etc/accel-ppp.conf** file.
- Should you wish to add or modify these configs; it can be done by editing */var/www/rdcore/cake4/rd\_cake/config/AccelPresets.php*.

- The various configs will then appear as a select-able Base Config list when managing profiles.
- When one select a Base Config from the list; the values in the GUI are populated from the selected Base Config.
- You can then edit those populated values so they are **unique** to the profile you are managing.
- See screenshot below.

The screenshot displays the RADIUSdesk web interface. At the top, there is a navigation bar with tabs for Settings, Clouds, Admins, Hardware, Schedules, Firewall, and OpenVPN. Below this is a sub-navigation bar with 'Servers', 'Profiles', and 'New Arrivals', along with a '+ Add Profile' button. The main content area is titled 'General Settings' and contains the following fields:

- Name:** ZA-5
- Base Config:** Default

Below the 'General Settings' section is the 'PPPoE' section, which includes:

- Called SID:** mac
- Verbose**

The 'PPP' section follows, with the following fields:

- LCP Echo Interval:** 20
- LCP Echo Timeout:** 120
- MRU:** 1400
- MTU:** 1400
- Min MTU:** 1280
- Verbose**

## Unique Settings (Profiles)

- Profiles allow you to override certain values which were specified in the Base Config so that they become unique to that profile.
- These include items which might need tweaking for certain environments.
- Each of the sections inside the GUI maps to a section in the **/etc/accel-ppp.conf** file.

## Specific Settings (Server)

- This is the final category and one that is specific to an Accel-ppp server in the applet.
- An Accel-ppp server needs a mandatory Profile (Unique settings) and then two items which are specific.
  - **Interface** This is the interface name on the server where we want to run the PPPoE service on.
  - **NAS Identifier** This is the specific identifier used to identify the Accel-ppp server on RADIUS.

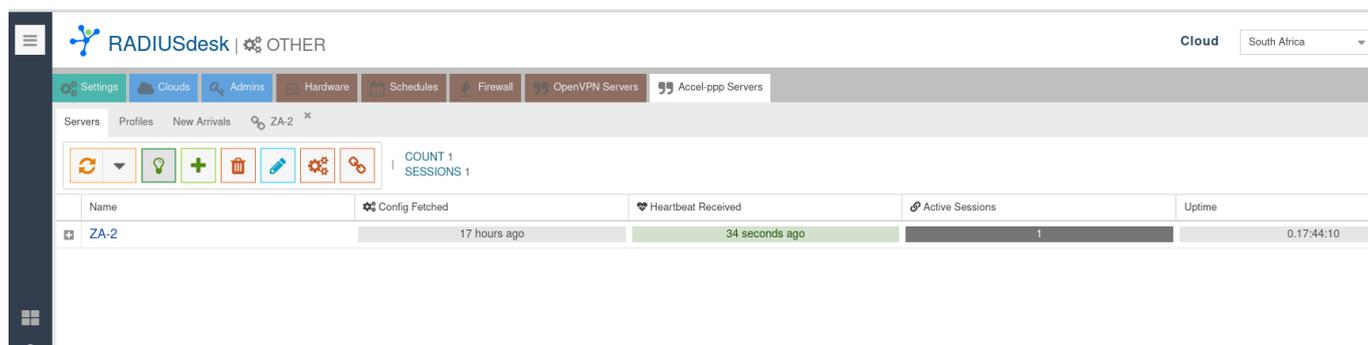
Edit Accel-ppp Server	
Name	VM-1
MAC Address	64-64-4A-D1-2D-67
Server Profile	ZA-1
Interface	enp0s8
NAS Identifier	accel-ppp
<input type="button" value="SAVE"/>	

## Servers

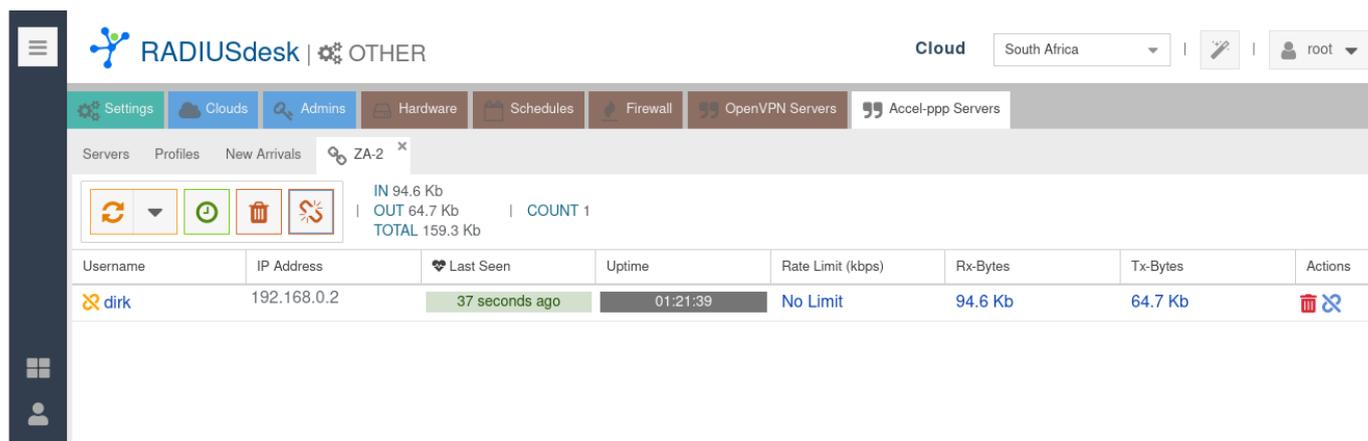
- Although the Servers tab is first we started with the Profiles tab since we need to have a Profile available which we can associate with a server.
- Each server has the following mandatory fields.
  - **Name** A unique name to identify the server with.
  - **MAC Address** This has to match the MAC Address of the interface on the device running Accel-ppp and is used as a identity field.

- **Server Profile** This was covered earlier in this document.
- **Interface** The name of the interface on which you plan to run the PPPoE service on (using Accel-ppp)
- **NAS Identifier** Used to identify the server when interacting with the RADIUS server.

### Servers GUI

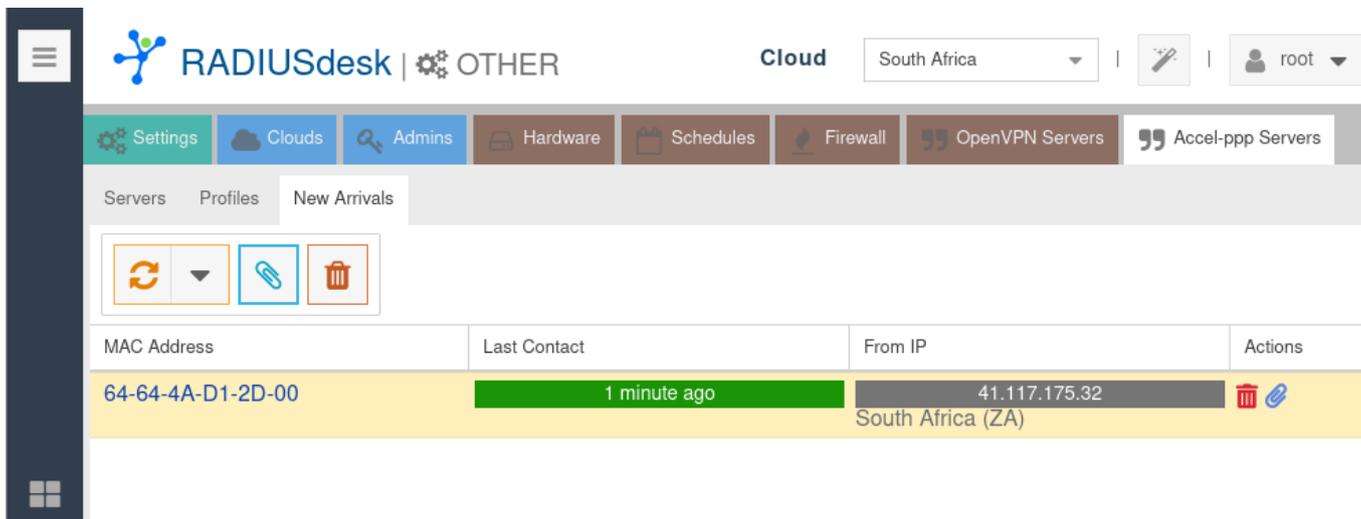


- The screenshot above is from the Accel-ppp server applet.
- Let's look at some key points
  - The Refresh button has an option to automatically refresh at fixed intervals. This is handy if you want to see when an Accel-ppp server comes online without having to hit the refresh button the whole time.
  - Next to it is a toggle button which allows you to see either all defined server or only those servers which are currently online.
  - The Add, Delete and Edit buttons should be self explanatory.
  - The **Restart Service** button is used to set the restart service flag on a selected server. If it is set (indicated visually with a gears icon prepended to the name) and the next heartbeat arrives from the RADIUSdesk Accel-ppp agent. the agent will detect the flag and restart the Accel-ppp service.
  - The visual indication will also be cleared.
  - The final button is used to launch a new tab which will list all the active sessions.



- The final button on the active sessions tab in turn will allow you to terminate selected sessions.
- It works in a similar way to the **Restart Service** button for the server itself where a flag is set and there is a visual indication that a session is marked for disconnect until the next heartbeat where it will be cleared and the RADIUSdesk Accel-ppp agent will terminate the user's session.

### New Arrivals



- Any of the Accel-ppp servers that still needs on-boarding will be listed under **New Arrivals**.
- Simply select the one you want to on-board and provide the required information to allow it to become part of the managed servers.
- Reboot the device after on-boarding and the configuration will be applied through the RADIUSdesk Accel-ppp agent.

### Next Steps

- Be sure to check out the steps to follow on the Ubuntu or Raspberry Pi to install the RADIUSdesk Accel-ppp agent so it can be managed by RADIUSdesk.

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