

Integrating FreeSwitch with Phonism

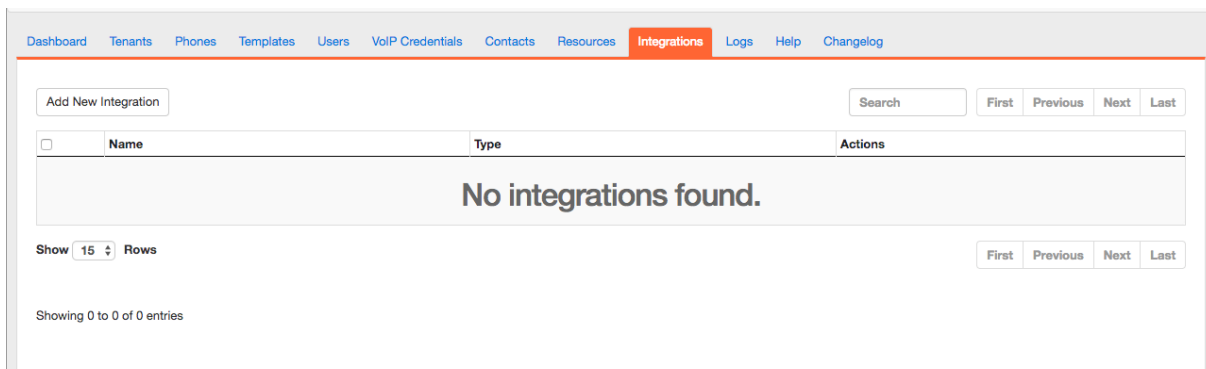
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Phonism and FreeSwitch

Phonism’s integration with FreeSwitch sets up a one-way, automatic synchronization of VoIP Credentials between your PBX and Phonism. Once installed, your PBX will securely push your users’ credential information into Phonism and any future changes are synchronized within minutes. This means no manual data entry between FreeSwitch and Phonism, all of your users’ credentials are available for configuration, and changes on the PBX will be reflected in your Phonism configurations.

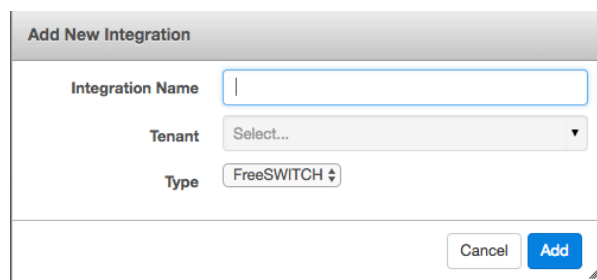
Setup Guide

1. Login to Phonism and navigate to the desired Domain or Tenant
2. Click on the “Integrations” tab

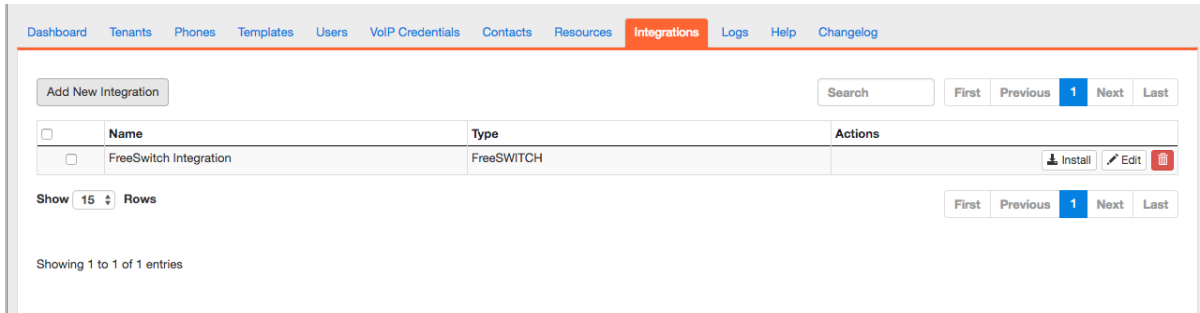


3. Click “Add New Integration”
4. Enter a name and select Add

Note: If at the Domain-level, select the Tenant to assign this integration



The screenshot shows the 'Add New Integration' form. It includes a text input field for 'Integration Name', a dropdown menu for 'Tenant' (currently set to 'Select...'), and a dropdown menu for 'Type' (currently set to 'FreeSWITCH'). At the bottom right of the form, there are 'Cancel' and 'Add' buttons.



5. Click “Install” for the newly created Integration to setup your FreeSwitch server
6. Login to your server and run the provided bash commands to install the Phonism FreeSwitch Agent.
 - a. The Phonism FreeSwitch Agent handles secure communication between your FreeSwitch server and Phonism.
 - b. The Phonism FreeSwitch Agent is open source and available on GitHub. https://github.com/phonism-llc/freeswitch_agent

Install Integration

FreeSWITCH Integration

To install the integration, run the below command on your FreeSWITCH server "FreeSwitch Integration":

```

PH_API_KEY=4uJ3uSN13iJOvlyrACHgqYcCU1T8P5L06BVP2L6K
PH_ENDPOINT=https://dev.phonism.com/api/v2/ sudo -E bash -
c " $(wget -qO- https://raw.githubusercontent.com/phonism-
llc/freeswitch_agent/master/install.sh) "
    
```

Note: This command is unique to "FreeSwitch Integration" and should not be run on multiple FreeSWITCH servers. Only one FreeSWITCH integration can be active per tenant.

Cancel

System Requirements

- The Phonism FreeSwitch installer only supports Debian-based Linux distributions. FreeSwitch currently supports Debian 8.
- Python 3.4 or greater must be installed on your server

The installer will install a Python virtual environment to house the Phonism FreeSwitch Agent.

```
1. ssh
/home/admin
admin@ip-10-0-51-167:~$ PH_API_KEY=4uJ3uSN13iJ0v1yrACHgqYcCUlT8P5L06BVP2L6K PH_ENDPOINT=https://dev.phonism.com/api/v2/ sudo -E
bash -c " $(wget -qO- https://raw.githubusercontent.com/phonism-llc/freeswitch_agent/master/install.sh)"

Checking permissions...
✓Running with sudo or as root

Checking dependencies...
- crontab ✓crontab is installed
- FreeSWITCH ✓v1.6.20 is installed
- Python ✓v3.4.2 is installed

Installing Python dependencies...

We will create a standalone virtual Python environment and install required libraries. Would you like to continue? [y/n]:
```

Next the installer will then create an .ini file to store the configuration options for the python script and then download the Phonism FreeSwitch Agent.

```
1. ssh
We will create a standalone virtual Python environment and install required libraries. Would you like to continue? [y/n]:
y
Reading package lists... Done
Building dependency tree
Reading state information... Done
python3-pip is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
Reading package lists... Done
Building dependency tree
Reading state information... Done
python3-virtualenv is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
Already using interpreter /usr/bin/python3
Using base prefix '/usr'
New python executable in phonism_env/bin/python3
Also creating executable in phonism_env/bin/python
Installing setuptools, pip...done.
Downloading/unpacking requests
  Downloading requests-2.19.1-py2.py3-none-any.whl (91kB): 91kB downloaded
Downloading/unpacking idna>=2.5,<2.8 (from requests)
  Downloading idna-2.7-py2.py3-none-any.whl (58kB): 58kB downloaded
Downloading/unpacking urllib3>=1.21.1,<1.24 (from requests)
  Downloading urllib3-1.23-py2.py3-none-any.whl (133kB): 133kB downloaded
Downloading/unpacking certifi>=2017.4.17 (from requests)
  Downloading certifi-2018.4.16-py2.py3-none-any.whl (150kB): 150kB downloaded
Downloading/unpacking chardet>=3.0.2,<3.1.0 (from requests)
  Downloading chardet-3.0.4-py2.py3-none-any.whl (133kB): 133kB downloaded
Installing collected packages: requests, idna, urllib3, certifi, chardet
Successfully installed requests idna urllib3 certifi chardet
Cleaning up...
- Python pip3 ✓pip3 is installed
- Python virtualenv ✓virtualenv is installed

Storing settings...
✓Settings stored to: /opt/phonism/phonism_freeswitch_agent.ini

Downloading script...
--2018-08-03 15:40:01-- https://raw.githubusercontent.com/phonism-llc/freeswitch_agent/master/phonism_freeswitch_agent.py
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 151.101.32.133
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|151.101.32.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 8972 (8.8K) [text/plain]
Saving to: '/opt/phonism/phonism_freeswitch_agent.py'

/opt/phonism/phonism_freeswitch 100%[=====] 8.76K --.-KB/s in 0s
2018-08-03 15:40:01 (122 MB/s) - '/opt/phonism/phonism_freeswitch_agent.py' saved [8972/8972]

✓Script downloaded to /opt/phonism

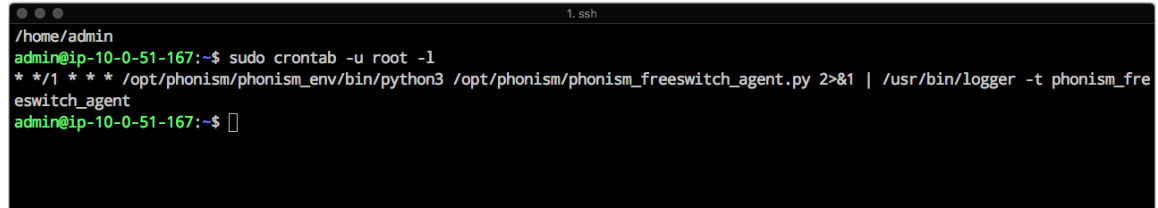
Running script...
✓Test Run successful

Adding cronjob...

Done!
admin@ip-10-0-51-167:~$
```

The Phonism Freeswitch agent is now installed.

A crontab has been installed that will run the Phonism FreeSwitch agent *at every minute past every hour*.



```
1. ssh
/home/admin
admin@ip-10-0-51-167:~$ sudo crontab -u root -l
* */1 * * * /opt/phonism/phonism_env/bin/python3 /opt/phonism/phonism_freeswitch_agent.py 2>&1 | /usr/bin/logger -t phonism_freeswitch_agent
admin@ip-10-0-51-167:~$
```