OpenStack-Ansible Documentation: rsyslog_client role

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OpenStack-Ansible Contributors

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Ansible role to deploy rsyslog for client use. This role will ship any and all logs discovered in the `rsyslog_client_log_dir` directory to any valid rsyslog target. The role was designed to be used by OpenStack-Ansible by leveraging multiple logging hosts via the **rsyslog_all** group. If that inventory group is not defined additional log shipping targets can be defined using `rsyslog_client_user_defined_targets`

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1.1 Centralized logging

OpenStack-Ansible configures all instances to send syslog data to a container (or group of containers) running rsyslog. The rsyslog server containers are specified in the `log_hosts` section of the `openstack_user_config.yml` file.

The rsyslog server container(s) have logrotate installed and configured with a 14 day retention. All rotated logs are compressed by default.

1.1.1 Finding logs

Logs are accessible in multiple locations within an OpenStack-Ansible deployment:

- The rsyslog server container collects logs in `/var/log/log-storage` within directories named after the container or physical host.
- Each physical host has the logs from its service containers mounted at `/openstack/log/`.
- Each service container has its own logs stored at `/var/log/<service_name>`.

To clone or view the source code for this repository, visit the role repository for rsyslog_client.

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DEFAULT VARIABLES

```yaml
## APT Cache Options
cache_timeout: 600

# Set the package install state for distribution packages
# Options are 'present' and 'latest'
rsyslog_client_package_state: "latest"

rsyslog_client_spool_directory: /var/spool/rsyslog

# Set the `rsyslog_client_log_dir` variable in to override log file
# discovery process. This will force the logs from a given directory
# to be shipped using rsyslog.
# rsyslog_client_log_dir: /var/log/project

# Set the `rsyslog_client_log_files` variable in list format to skip
# log discovery all together and ship only log files that are explicitly
# stated.
# rsyslog_client_log_files:
#   - /var/log/project/logfile1.log
#   - /var/log/project/logfile2.log

# Name of the configuration file that will be used client side.
rsyslog_client_config_name: 99-rsyslog-client.conf

# provides UDP syslog reception
rsyslog_client_udp_reception: true
rsyslog_client_udp_port: 514

# provides TCP syslog reception
rsyslog_client_tcp_reception: false
rsyslog_client_tcp_port: 514

# Define the log files list as empty
rsyslog_client_log_files: []

rsyslog_client_log_rotate_file: os_aggregate_storage
rsyslog_client_log_rotate_options:
  - copytruncate
```

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```
  - weekly
  - missingok
  - rotate 14
  - compress
  - dateext
  - maxage 60
  - notifempty
  - nocreate
rsyslog_client_log_rotate_scripts:
  - name: postrotate
    content: "{{ rsyslog_client_reload }}"

# Set the `rsyslog_client_user_defined_targets` to define specific log targets.
# This option will allow you to define multiple log targets with different␣
↪templates
# and options. The value of this variable is a list of hashes with the␣
↪following
# required options: name, proto, port, hostname. This variable also has the␣
↪following
# optional options: template, action_options. If you set `action_options` make␣
↪sure you
# separate options inline with a ";".
## Example
# rsyslog_client_user_defined_targets:
#   - name: "splunk1"
#     proto: "tcp"
#     port: "20000"
#     hostname: "tcp.hostname.data.splunkstorm.com"
#   - name: "loggly1"
#     proto: "udp"
#     port: "514"
#     hostname: "logs-01.loggly.com"
#     template: '$template LogglyFormat,"<%pri%>%protocol-version%
↪%timestamp::::date-rfc3339% %HOSTNAME% %app-name% %procid% %msgid%␣
↪[TOKEN@41058 tag=\"TAG\"] %msg%\n"'
#     action_options: 'LogglyFormat'
```

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REQUIRED VARIABLES

None

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EXAMPLE PLAYBOOK

```yaml
- name: Install rsyslog
  hosts: rsyslog
  user: root
  roles:
    - role: "rsyslog_client"
      rsyslog_client_log_rotate_file: test_log_rotate
      rsyslog_client_log_dir: "/var/log"
      rsyslog_client_config_name: "99-test-rsyslog-client.conf"
      rsyslog_client_log_files:
        - /var/log/dmesg
        - /var/log/udev
```