

openLI

Installing OpenLI

OpenLI Training: Chapter Five

Shane Alcock

University of Waikato

New Zealand

shane.alcock@waikato.ac.nz

Packaging

- Best way to install and maintain OpenLI
 - Automatic dependency management

- Each new OpenLI release is automatically packaged
 - Debian, Ubuntu LTS
 - CentOS 7, Fedora



Packaging

- OpenLI is not in official package repositories (yet)
 - You will need to add our repositories to your package sources
 - Repositories are hosted on cloudsmith
 - <https://cloudsmith.io/~wand/repos/>



Example Debian Install

<https://github.com/wanduow/openli/wiki/Installing-Debian-Packaged-Version>



Example Debian Install

- Make sure you have some key dependencies

```
> sudo apt install -y apt-transport-https curl
```



Example Debian Install

- Add WAND repositories for OpenLI dependencies
 - You may want to browse these bash scripts before running them!

```
> curl -sLf 'https://dl.cloudsmith.io/public/wand/libwandio/cfg/setup/bash.deb.sh' | sudo -E
bash
> curl -sLf 'https://dl.cloudsmith.io/public/wand/libwandder/cfg/setup/bash.deb.sh' | sudo -E
bash
> curl -sLf 'https://dl.cloudsmith.io/public/wand/libtrace/cfg/setup/bash.deb.sh' | sudo -E bash
```

Example Debian Install

- Add the WAND repository for OpenLI itself
 - You may want to browse the bash script before running it!

```
> curl -1sLf 'https://dl.cloudsmith.io/public/wand/openli/cfg/setup/bash.deb.sh' | sudo -E bash
```

Example Debian Install

- Update apt to have the latest info on which packages exist

```
> sudo apt update
```



Example Debian Install

- Install your desired OpenLI components
 - For testing, installing all components on the same host is OK

```
> sudo apt install openli-provisioner
```

```
> sudo apt install openli-collector
```

```
> sudo apt install openli-mediator
```

Example CentOS Install

<https://github.com/wanduow/openli/wiki/Installing-via-RPM>



Example CentOS 7 Install

- Make sure you have access to the EPEL repositories
 - Swap latest-7 with latest-8 for CentOS 8

```
> sudo yum install -y https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
```

Example CentOS 7 Install

- Add WAND repositories for OpenLI dependencies
 - You may want to browse these bash scripts before running them!

```
> curl -sLf 'https://dl.cloudsmith.io/public/wand/libwandio/cfg/setup/bash.rpm.sh' | sudo -E
bash
> curl -sLf 'https://dl.cloudsmith.io/public/wand/libwandder/cfg/setup/bash.rpm.sh' | sudo -E
bash
> curl -sLf 'https://dl.cloudsmith.io/public/wand/libtrace/cfg/setup/bash.rpm.sh' | sudo -E bash
```

Example CentOS 7 Install

- Add RabbitMQ repositories for RabbitMQ and Erlang
 - Skip this step if you're just installing the provisioner
 - You may want to browse these bash scripts before running them!

```
> rpm --import https://packagecloud.io/rabbitmq/rabbitmq-server/gpgkey
> curl -s https://packagecloud.io/install/repositories/rabbitmq/rabbitmq-server/script.rpm.sh |
sudo bash
> curl -s https://packagecloud.io/install/repositories/rabbitmq/erlang/script.rpm.sh | sudo bash
```

Example CentOS 7 Install

- Add the WAND repository for OpenLI itself
 - You may want to browse the bash script before running it!

```
> curl -sLf 'https://dl.cloudsmith.io/public/wand/openli/cfg/setup/bash.rpm.sh' | sudo -E bash
```

Example CentOS 7 Install

- Install your desired OpenLI components
 - For testing, installing all components on the same host is OK

```
> sudo yum install openli-provisioner
```

```
> sudo yum install openli-collector
```

```
> sudo yum install openli-mediator
```

What is Installed

- OpenLI binaries end up in /usr/bin
 - openlicollector, openliprovisioner, openlimediator
- OpenLI services are registered with systemd
 - sudo service openli-provisioner status
- Documentation is installed in /usr/share/doc/openli

/etc/openli

- OpenLI configuration files belong in here
 - Provisioner: /etc/openli/provisioner-config.yaml
 - Collector: /etc/openli/collector-config.yaml
 - Mediator: /etc/openli/mediator-config.yaml
 - Active intercept configuration:
/etc/openli/running-intercept-config.yaml

- Example configs are pre-installed
 - Named differently to avoid accidental use

/etc/openli

- Rsyslog config for OpenLI is installed in /etc/openli/rsyslog.d
 - Move this config into /etc/rsyslog.d to enable
 - Restart rsyslog daemon
 - OpenLI will then log to /var/log/openli

- Otherwise, all OpenLI components log into /var/log/messages

Tracking New Releases

- <https://github.com/wanduow/openli/releases>
- Get an Atom feed:
 - <https://github.com/wanduow/openli/releases.atom>



Updating Installed Packages

- Debian / Ubuntu

> `sudo apt update && sudo apt upgrade`

- CentOS

> `sudo yum update`

- Fedora

> `sudo dnf update`

Removing Installed Packages

- Debian / Ubuntu

```
> sudo apt remove --purge openli-collector
```

- CentOS

```
> sudo yum remove openli-collector
```

- Fedora

```
> sudo dnf remove openli-collector
```

Next Time

- Introduction to the OpenLI Training Lab