solarwinds
Innovate Summit 2017

Logging Docker with Papertrail

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Jumping Right in

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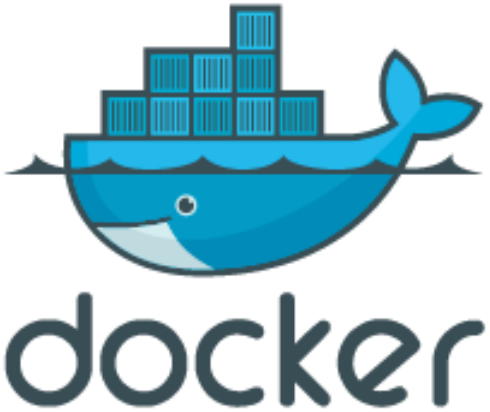

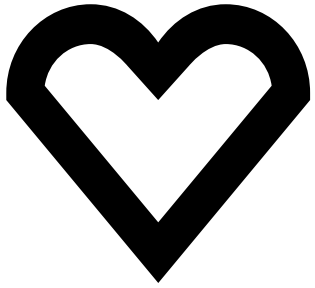

solarwinds papertrail™

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Docker plug-ins

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- Out-of-process extensions
- A process running on the same or a different host as the docker daemon
  - Registers itself by placing a file on the same docker host in one of the plug-in directories
- They have human-readable names, which are short, lowercase strings
- The plug-in API is RPC-style JSON over HTTP, much like web hooks
- Needs to implement an HTTP server and bind to the UNIX socket
- HTTP POST requests

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- Frustration-free log management.
- Makes log management easy
  - Aggregate
  - All app logs, text log files, and syslog. One place.
  - Tail & search
  - It's real-time. Use a browser, command-line, or API.
- React and analyze
- Get alerted instantly. Detect trends and archive forever.

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Docker driver for Papertrail

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- Send docker logs to Papertrail
- The data persisted until it is sent to Papertrail
- Logs can be read from papertrail using Docker logs
  - supports Docker logs follow and tail options

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Set up craziness

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1. Install plug-in:

docker plugin install solarwinds/papertrail-plugin

2. Use the plug-in

```
docker run --rm --log-driver solarwinds/papertrail-plugin --log-opt papertrail-url=logsX.papertrailapp.com:XXXXX --log-opt papertrail-token=adbdyxendkkxk ubuntu bash -c 'while true; do date +%s%N | sha256sum | base64 | head -c 32 ; echo " - Hello world"; sleep 10; done'
```

(OR)

/etc/docker/daemon.json

```
{
  "log-driver": "solarwinds/papertrail-plugin",
  "log-opts": {
    "papertrail-url": "logsX.papertrailapp.com:XXXXX",
    "papertrail-token": "adbdyxendkkxk"
  }
}
```


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Can you read? Yes...

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For viewing the logs:

```
docker logs "container name"
```

Tail the logs:

```
docker logs -f "container name"
```

Only view the last N lines:

```
docker logs --tail N "container name"
```

Start tailing from the last N lines:

```
docker logs --tail N -f "container name"
```


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We love Docker hub

https://hub.docker.com/r/solarwinds/papertrail-plugin/

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And Github

https://github.com/solarwinds/docker-plugin-papertail

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Fingers crossed

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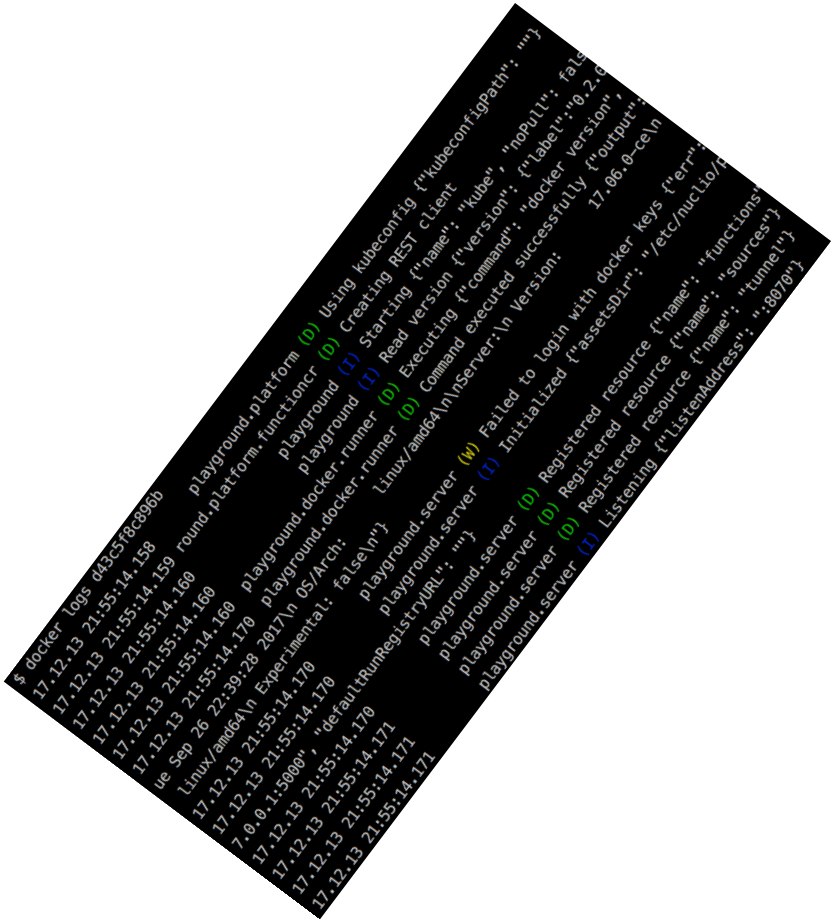

Demo

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Did the lightning get you?

Aaaaah, you guyz are still awake. . .

yes, we're hiring

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