



The tooling of a modern and agile Oracle DBA

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- Oracle DBA since about 20 years (currently focusing on PostgreSQL)
- OCP
- RAC certified Expert
- Exadata certified implementation specialist
- Kubernetes Administrator
- Blogger since 2012
- ~~Oracle ACE~~
- Oak table member
- @bertranddrouvot
- BasketBall fan





- DBaaS with automation for:
- Software installation
- Database creation
- Patching
- Upgrade
- Standby creation



- End user should access performance dashboards
- End user should access logs
- Security Team should access audit and logs
- Monitoring and alerting
- Same tool for all SGBD (oracle, postgres, mssql)



- Ansible for automation
- Telegraf, Influxdb and grafana to collect, store and display performance metrics
- Logstash, elasticsearch and kibana to collect, store and display logs and audit
- Kapacitor for monitoring and alerting



- Brief overview of Ansible
- Brief overview of Telegraf, Influxdb and grafana
- Brief overview of Logstash, elasticsearch and kibana
- Brief overview of Kapacitor for monitoring and alerting
- Live demo

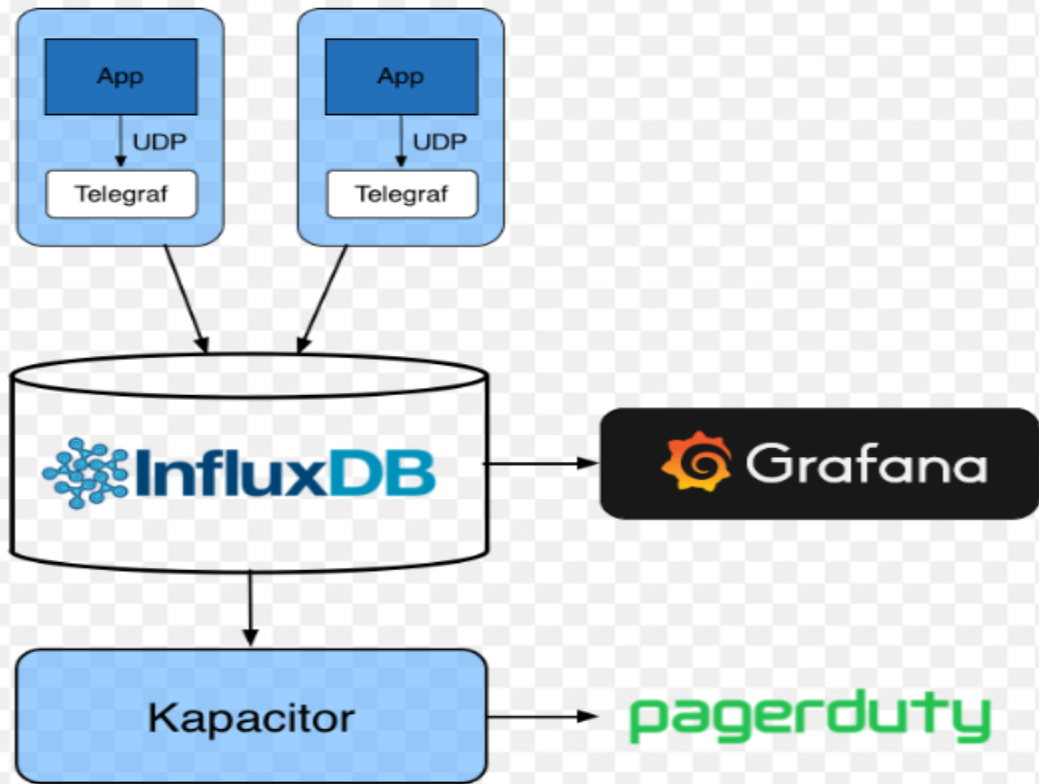


- In depth overview of Ansible
- In depth overview of Telegraf, Influxdb and grafana
- In depth overview of Logstash, elasticsearch and kibana
- In depth overview of Kapacitor for monitoring and alerting

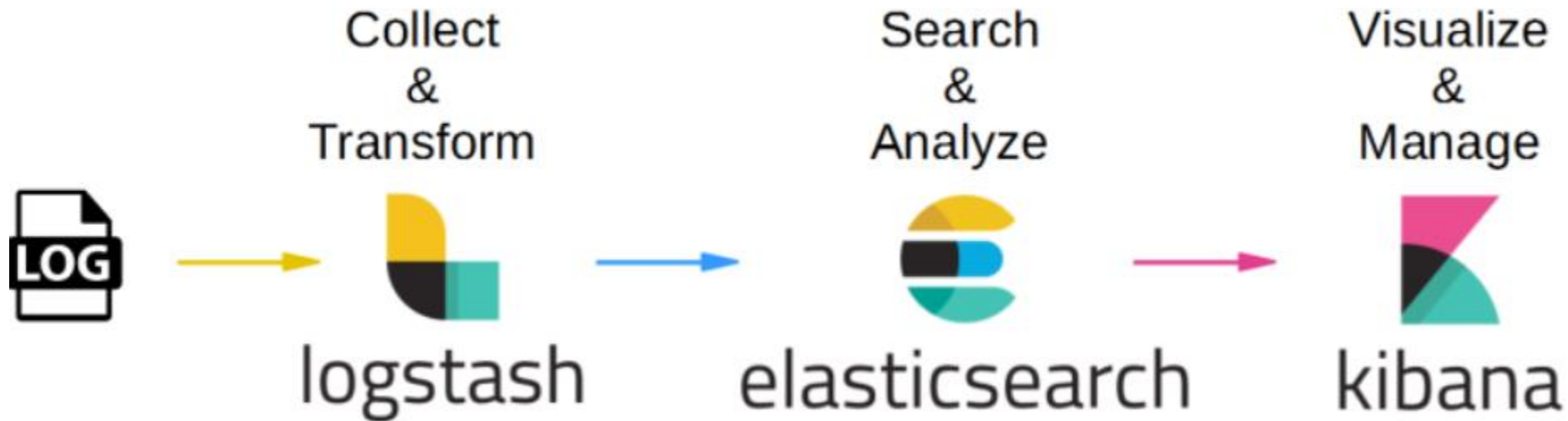


- Ansible is a radically simple IT automation engine
- it uses no agents
- it's easy to deploy
- it uses a very simple language (YAML, in the form of Ansible Playbooks)

- Telegraf is a plugin-driven server agent for collecting and reporting metrics
- Telegraf has integrations to source a variety of metrics, events, and logs
- InfluxDB is used as a data store for time-stamped data
- Kapacitor can process both stream and batch data from InfluxDB. It lets you plug in your own custom logic or user-defined functions to process alerts with dynamic thresholds, match metrics for patterns, compute statistical anomalies, and perform specific actions based on these alerts
- Grafana allows you to query, visualize, alert on and understand your metrics



- Logstash is an open source, server-side data processing pipeline that ingests data from a multitude of sources simultaneously, transforms it, and then sends it to your favorite “stash.”
- Elasticsearch is a distributed, RESTful search and analytics engine (lucene)
- Kibana lets you visualize your Elasticsearch data





- Let's prepare the system
- Let's install the 12.1.0.2 software
- Let's create a 12.1.0.2 database

- Telegraf is installed
- Influxdb exists
- Grafana exists
- Let's deploy telegraf configuration files
- Let's generate some load (SLOB)
- Let's see the performance dashboard



- Telegraf configuration files are deployed
- Kapacitor is installed
- Let's deploy Kapacitor configuration files
- Let's see the alerts



- Elasticsearch exists
- Kibana exists
- Let's deploy logstash
- Let's generate some activity (logon, stop/start, ORA-)
- Let's see the kibana dashboard

Questions





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