

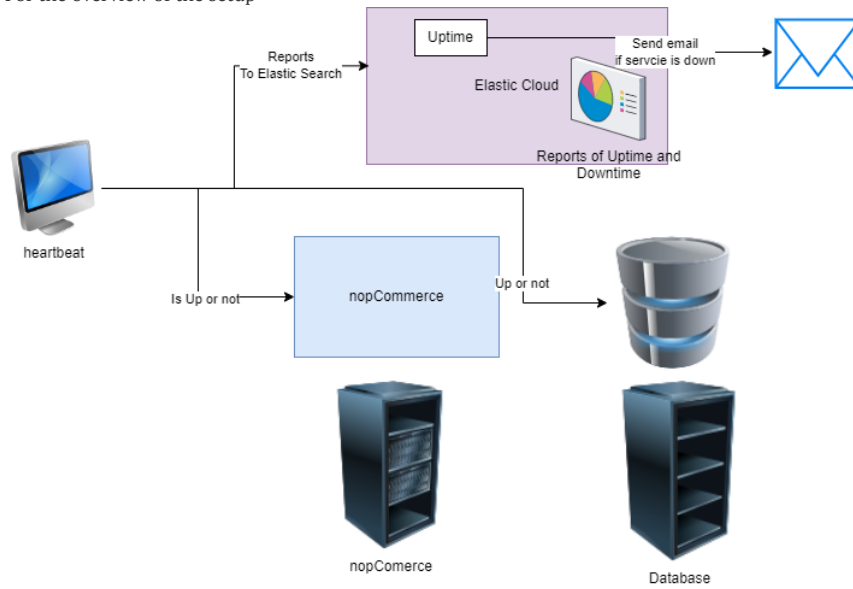


MAY 10, 2023

DevOps Classroomnotes 10/May/2023

Uptime Monitoring

- For the overview of the setup



- Lets create a linux machine and
 - install heart beat
 - configure heart beat to send metrics to elastic cloud
- We will be configuring heart beat to check if the
 - apache server is alive

```
bash
sudo apt update
sudo apt install apache2 -y
```
- Heart beat installation:
 - [Refer Here](#) for the overview
 - [Refer Here](#) for official docs on installing heart beat and [Refer Here](#) for apt based installation
- Configuration:
 - All the elastic stack is generally installed and configuration files are stored in similar directories
 - config location: `/etc/<prod-name>`
 - install location: `/usr/share/<prod-name>`
- Edit `/etc/heartbeat/heartbeat.yml` to add cloud id and auth
- What has to be monitored
 - apache server
 - Monitor types: [Refer Here](#)
- Configuration

```
# Configure monitors inline
heartbeat.monitors:
- type: http
  # Set enabled to true (or delete the following line) to enable this example monitor  enabled: true
  # ID used to uniquely identify this monitor in elasticsearch even if the config changes
  id: nop-web
  # Human readable display name for this service in Uptime UI and elsewhere
  name: nop web monitor
  # List or urls to query
  urls: ["http://52.12.64.7"]
  # Configure task schedule
  schedule: '@every 5s'
```

- Start heart beat: [Refer Here](#)

```

Dell@qtheartbeat:/etc/heartbeat$ sudo systemctl start heartbeat-elastic.service
Dell@qtheartbeat:/etc/heartbeat$ sudo systemctl status heartbeat-elastic.service
● heartbeat-elastic.service - Ping remote services for availability and log results to Elast
   Loaded: loaded (/lib/systemd/system/heartbeat-elastic.service; enabled; vendor preset:
   Active: active (running) since Wed 2023-05-10 03:24:47 UTC; 5s ago
     Docs: https://www.elastic.co/beats/heartbeat
    Main PID: 2897 (heartbeat)
      Tasks: 6 (limit: 1076)
     Memory: 66.7M
    CGroup: /system.slice/heartbeat-elastic.service
            └─2897 /usr/share/heartbeat/bin/heartbeat --environment systemd -c /etc/heartbe

May 10 03:24:49 qtheartbeat heartbeat[2897]: {"log.level":"info","@timestamp":"2023-05-10T03:
May 10 03:24:49 qtheartbeat heartbeat[2897]: {"log.level":"info","@timestamp":"2023-05-10T03:
May 10 03:24:49 qtheartbeat heartbeat[2897]: {"log.level":"info","@timestamp":"2023-05-10T03:
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May 10 03:24:50 qtheartbeat heartbeat[2897]: {"log.level":"info","@timestamp":"2023-05-10T03:
lines 1-20/20 (END)

```

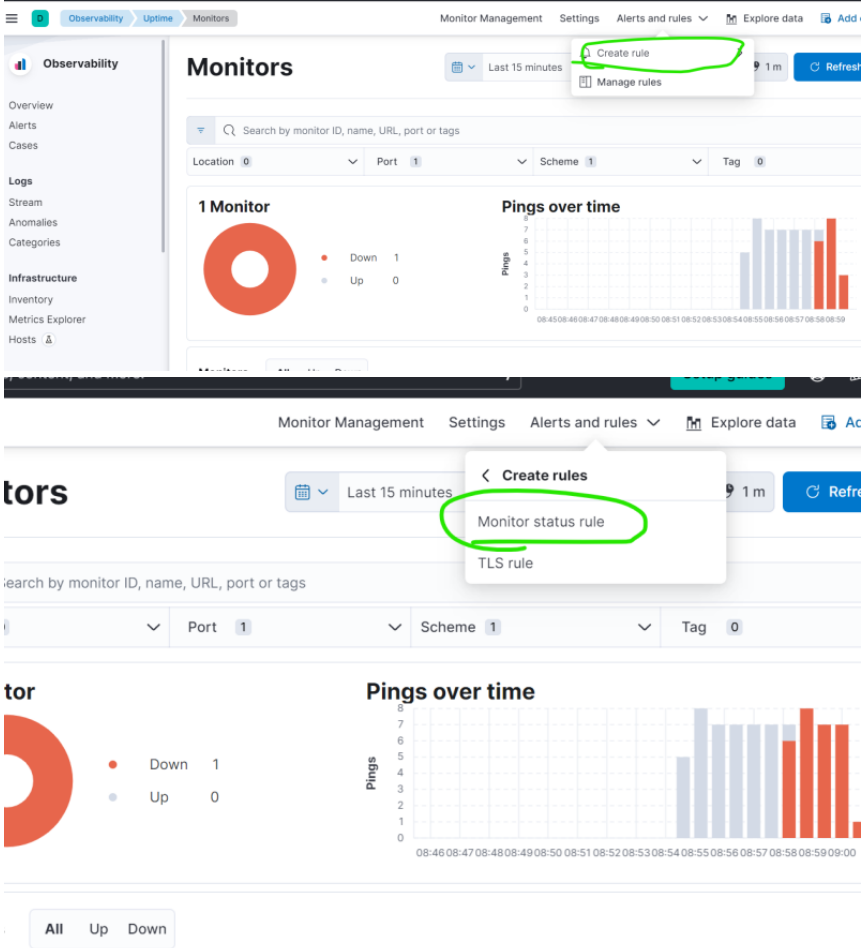
- Now open kibana & navigate to uptime

The screenshot shows the Elastic Kibana interface. The left sidebar has 'Uptime' highlighted. The main area shows a 'What would you like to do first?' prompt with options for Search, Observability, and Security. Below this, there's a '1 Monitor' section with a green checkmark and a 'Pings over time' bar chart showing successful pings.

- To view th down status. stop the service and wait for the page to reload

The screenshot shows the Elastic Kibana interface after the service has been stopped. The '1 Monitor' section now shows a red circle with a white 'X' and the status 'Down 1' and 'Up 0'. The 'Pings over time' bar chart shows a red bar indicating a failed ping.

- Lets create an alert to send email about status of server



- Exercise: Create an alert to check if the nop-app and nop-db is up or not.

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