Datadog home task: Sergei Shevtsov
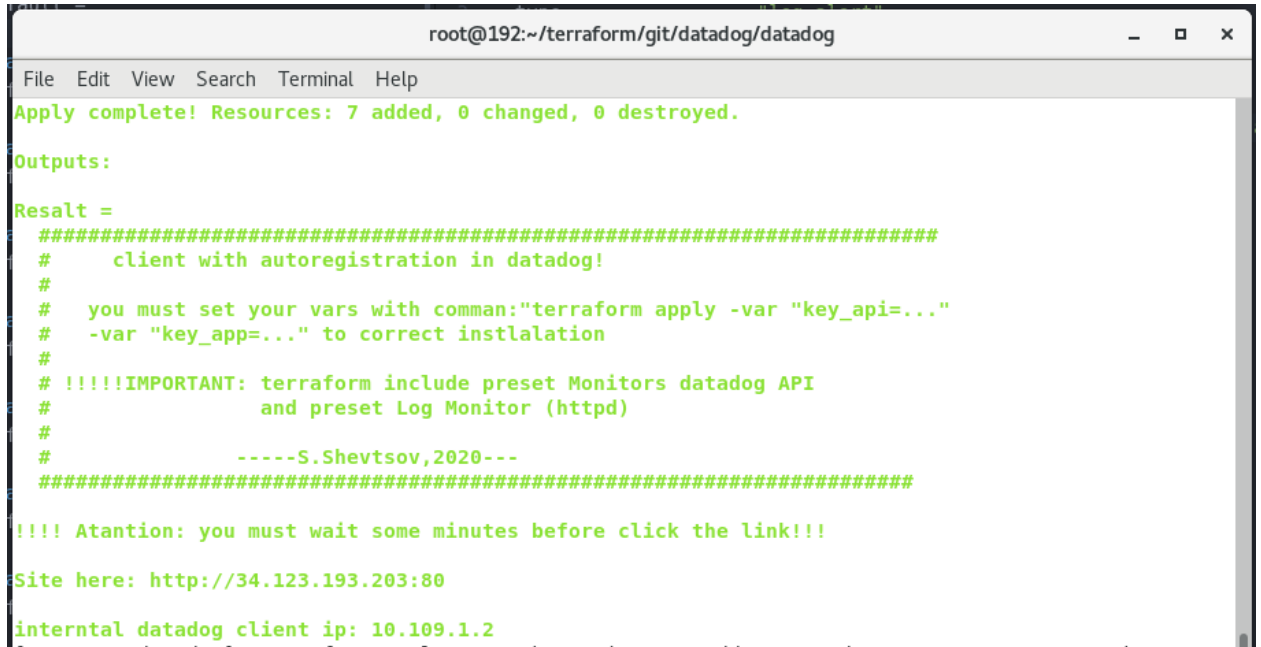
WITH EXTRA TASK – auto create Monitor httpd service (in the end of report)!

You must run terraform command like this: terraform apply **-var 'key_api=5c0a9c85a' -var 'key_app=89a4eaca7cf393'** with yours keys api and app!

Terraform apply result:

```
root@192:~/terraform/git/datadog/datadog                          _  ▢  ×

File  Edit  View  Search  Terminal  Help
Apply complete! Resources: 7 added, 0 changed, 0 destroyed.

Outputs:

Resalt =
  ####################################################################
  #      client with autoregistration in datadog!
  #
  #   you must set your vars with comman:"terraform apply -var "key_api=..."
  #   -var "key_app=..." to correct instlalation
  #
  # !!!!!IMPORTANT: terraform include preset Monitors datadog API
  #                 and preset Log Monitor (httpd)
  #
  #               -----S.Shevtsov,2020---
  ####################################################################

!!!! Atantion: you must wait some minutes before click the link!!!

Site here: http://34.123.193.203:80

interntal datadog client ip: 10.109.1.2
```

Task 1: create Log Monitoring and Alert email notification:

Create 2 logs monitoring for httpd and tomcat:

Set **logs_enabled: true** in datadog.yaml and restart agent!

Create 2 conf.yaml files for every service httpd end tomcat in conf.d/

Check status: sudo datadog-agent status :

```
==========
Logs Agent
==========

    Sending compressed logs in HTTPS to agent-http-intake.logs.datadoghq.com on port
443
    BytesSent: 42779
    EncodedBytesSent: 4235
    LogsProcessed: 106
    LogsSent: 106

  httpd ✓
  -----
    Type: file
    Path: /etc/httpd/logs/access_log          ┼
    Status: OK ✓
    Inputs: /etc/httpd/logs/access_log

  tomcat ✓
  ------
    Type: file
    Path: /opt/tomcat/apache-tomcat-8.5.57/logs/*.log    ┼
    Status: OK ✓
      4 files tailed out of 4 files matching
    Inputs: /opt/tomcat/apache-tomcat-8.5.57/logs/localhost.2020-09-16.log /opt/tomca
t/apache-tomcat-8.5.57/logs/host-manager.2020-09-16.log /opt/tomcat/apache-tomcat-8.5
.57/logs/catalina.2020-09-16.log /opt/tomcat/apache-tomcat-8.5.57/logs/manager.2020-0
9-16.log
```

Go to LogExplorer and check:
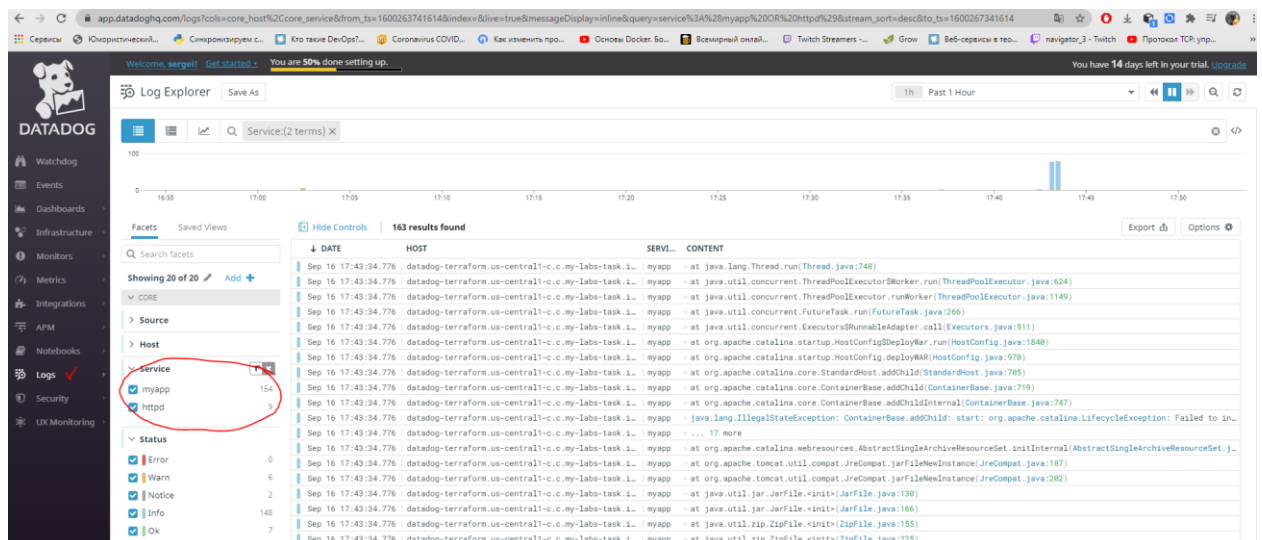
Now create Log Monitor – go to "Monitors->New Monitor" and set next settings:

After save Monitor we Deploy some war files in Tomcat to generate logs:

Return to Log Monitor – 154 new lines!!!

Check e-mail that notification is work:

DA Datadog Alerting <alert@dtdg.co>
16.09.2020, Cp, 17:45
Кому: Sergei Shevtsov

Datadog

[Triggered] Log Alert 1

@sergei_shevtsov@epam.com

More than **10** log events matched in the last **5m** against the monitored query: **source:tomcat**

The monitor was last triggered at Wed Sep 16 2020 14:45:36 UTC.

[Monitor Status] · [Edit Monitor] · [Related Logs]

This alert was raised by account home
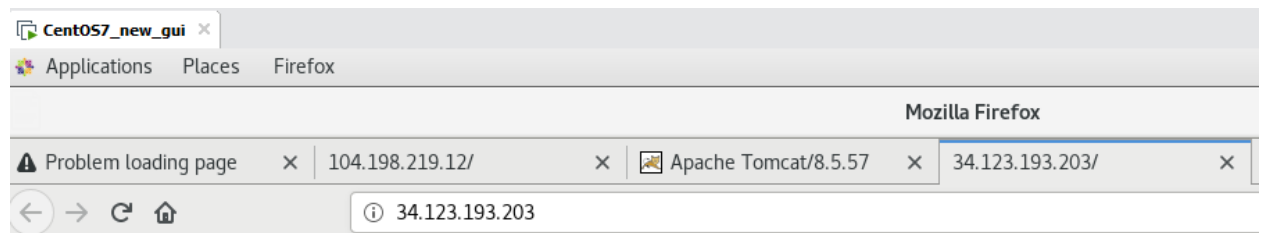
Sample Logs:

Time	Host
14:43:34 UTC	datadog-terraform.us-central1-c.c.my-labs-task.internal

```
at java.lang.Thread.run(Thread.java:748)
14:43:34 UTC        datadog-terraform.us-central1-c.c.my-labs-task.internal
at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
14:43:34 UTC        datadog-terraform.us-central1-c.c.my-labs-task.internal
at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1149)
14:43:34 UTC        datadog-terraform.us-central1-c.c.my-labs-task.internal
at java.util.concurrent.FutureTask.run(FutureTask.java:266)
14:43:34 UTC        datadog-terraform.us-central1-c.c.my-labs-task.internal
at java.util.concurrent.Executors$RunnableAdapter.call(Executors.java:511)
14:43:34 UTC        datadog-terraform.us-central1-c.c.my-labs-task.internal
at org.apache.catalina.startup.HostConfig$DeployWar.run(HostConfig.java:1840)
14:43:34 UTC        datadog-terraform.us-central1-c.c.my-labs-task.internal
at org.apache.catalina.startup.HostConfig.deployWAR(HostConfig.java:970)
14:43:34 UTC        datadog-terraform.us-central1-c.c.my-labs-task.internal
at org.apache.catalina.core.StandardHost.addChild(StandardHost.java:705)
14:43:34 UTC        datadog-terraform.us-central1-c.c.my-labs-task.internal
at org.apache.catalina.core.ContainerBase.addChild(ContainerBase.java:719)
14:43:34 UTC        datadog-terraform.us-central1-c.c.my-labs-task.internal
at org.apache.catalina.core.ContainerBase.addChildInternal(ContainerBase.java:747)
14:43:34 UTC        datadog-terraform.us-central1-c.c.my-labs-task.internal
java.lang.IllegalStateException: ContainerBase.addChild: start: org.apache.catalina.LifecycleException: Failed to
initialize component [org.apache.catalina.webresources.WarResourceSet@66b65d33]
14:43:34 UTC        datadog-terraform.us-central1-c.c.my-labs-task.internal
```

Task 2: create Web Monitor:

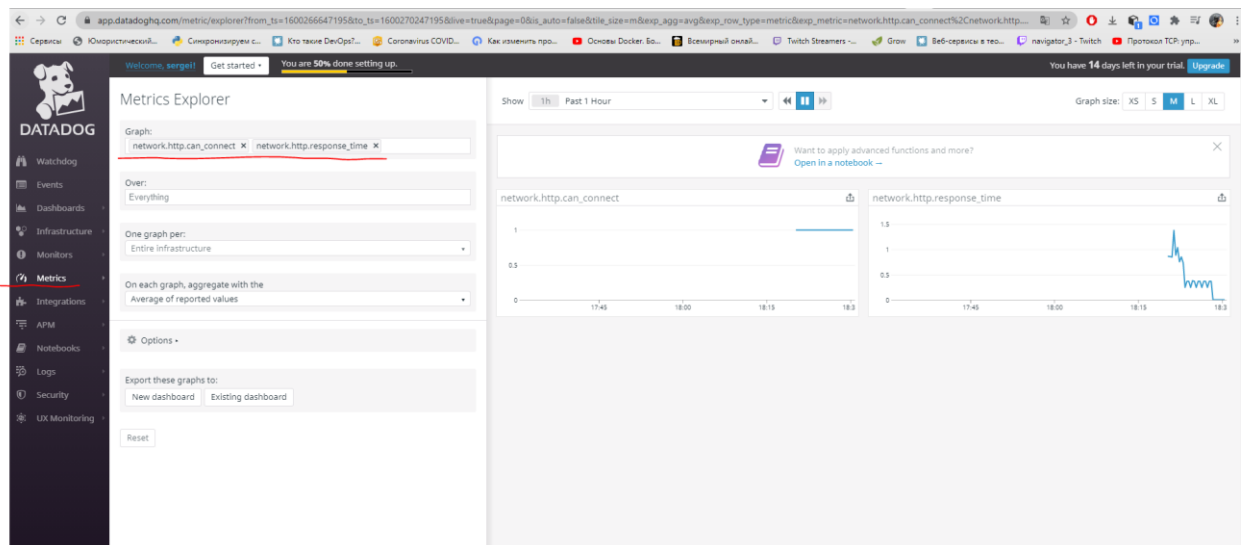Create config to monitoring httpd my simpl site and restart agent:

CentOS7_new_gui ×

Applications   Places   Firefox

Mozilla Firefox

⚠ Problem loading page   × | 104.198.219.12/   × | Apache Tomcat/8.5.57   × | 34.123.193.203/   ×

← → C ⌂   ⓘ 34.123.193.203

Hello from Sergei Shevtsov!!!
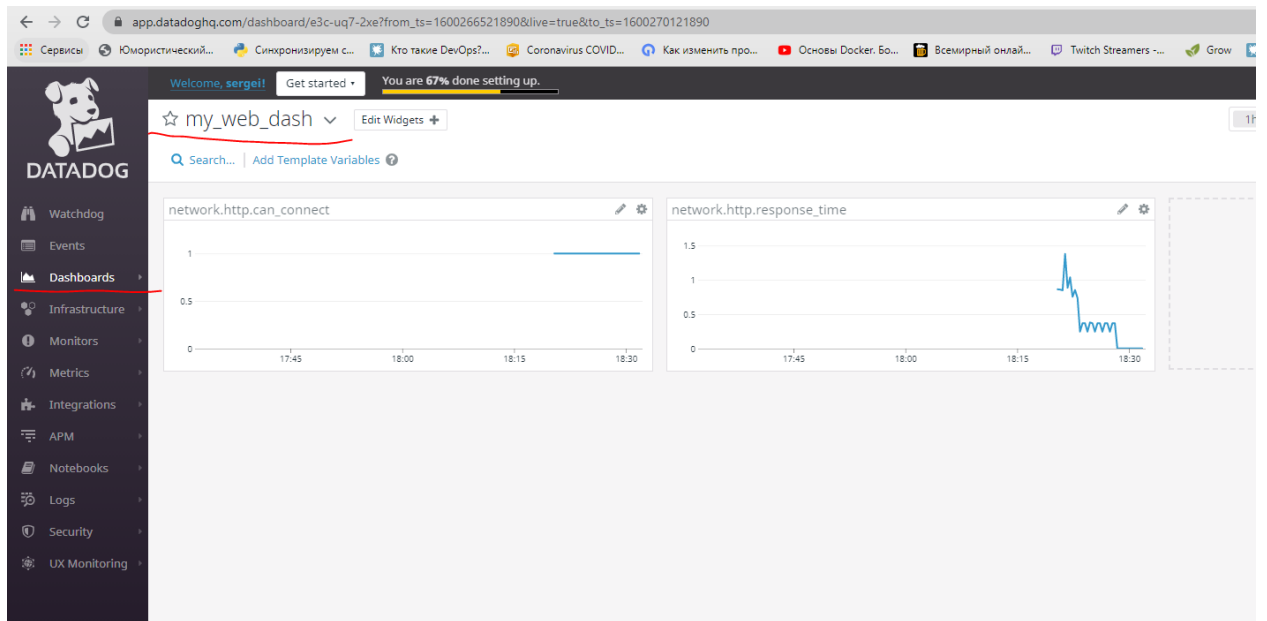
```
instances:

    ## @param name - string - required
    ## Name of your Http check instance.
    #
 - name: my_site

    ## @param url - string - required
    ## Url to check
    ## Non-standard ports are supported using http://hostname:port syntax
    #
    url: http://104.198.219.12
```

Go to Metrics and set two graphs:

Then add them to new dashboard:

No create Metric with notification:

For example check log Monitoring to my site:
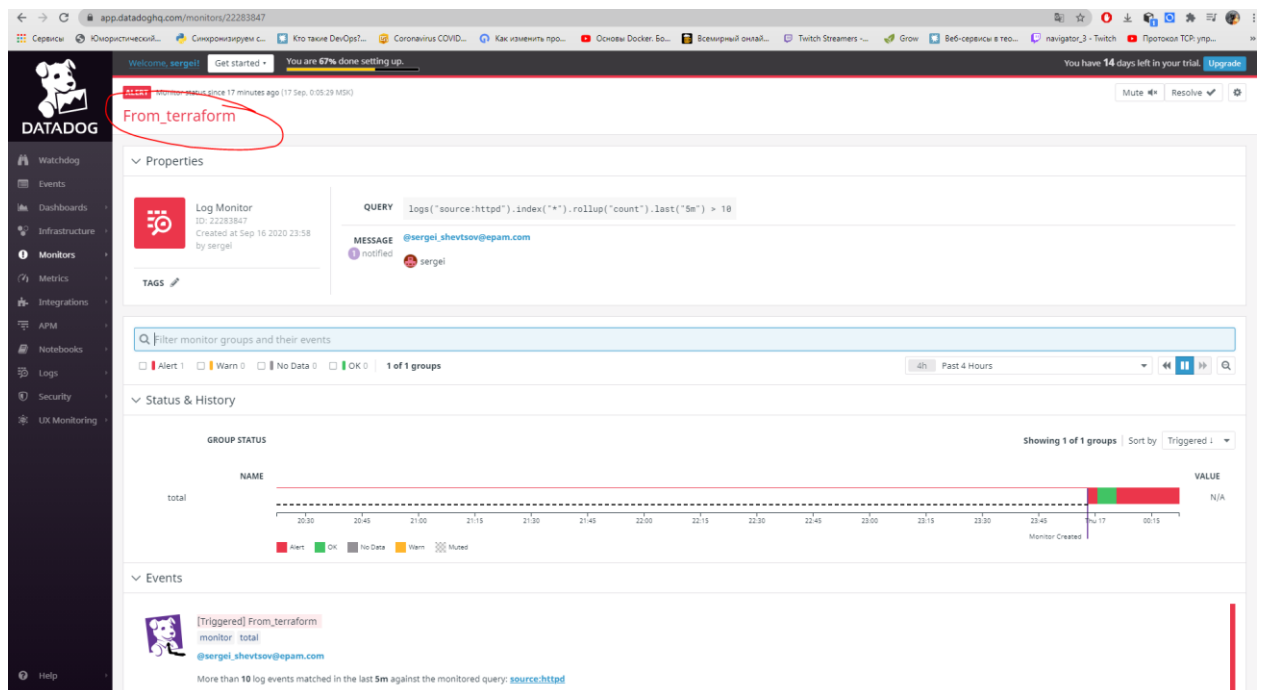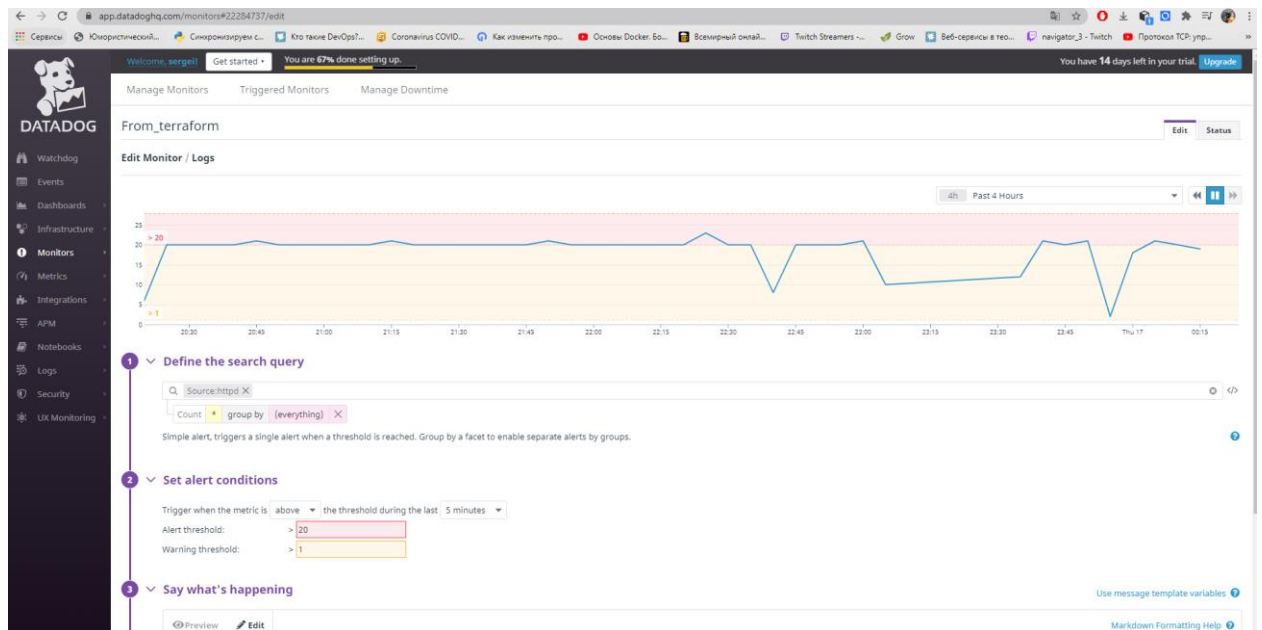

No stop httpd and check:

Check e-mail:

EXTRA TASK:

Use terraform script to create Monitor in datadog that will check log file httpd service

And web connection:

And result in datadog:

Web connection: