



**DevOps Lab**

**ZABBIX**

**Home tasks**

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CONFIDENTIAL | Effective Date: 09-Sep-19

# TASK

## 1. Server setup

app.datadoghq.com/account/profile

Welcome, Dzmitry! Get started You are 33% done setting up. You have 14 days left in your trial. Upgrade

My Settings

Profile Preferences Change Password

Picture:

Name: Dzmitry Mezhva

Email: dzmitry.mezhva@gmail.com

Title:

Organizations

You belong to the following organizations:

EPAM admin Current Link mobile device

Log out of Datadog

Chat

## 2. Agent configuration - TF + provision

```
dzmitry_mezhva@datadog-instance:~$ sudo systemctl status datadog-agent
datadog-agent.service - Datadog Agent
Loaded: loaded (/usr/lib/systemd/system/datadog-agent.service; enabled; vendor preset: disabled)
Active: active (running) since Wed 2020-09-16 15:34:17 UTC; 22min ago
Main PID: 1454 (agent)
CGroup: /system.slice/datadog-agent.service
└─1454 /opt/datadog-agent/bin/agent/agent run -p /opt/datadog-agent/run/agent.pid

Sep 16 15:39:17 datadog-instance agent[1454]: 2020-09-16 15:39:17 UTC | CORE | INFO | (pkg/serializer/seri...tes.
Sep 16 15:39:19 datadog-instance agent[1454]: 2020-09-16 15:39:19 UTC | CORE | INFO | (pkg/serializer/seri...tes.
Sep 16 15:44:19 datadog-instance agent[1454]: 2020-09-16 15:44:19 UTC | CORE | INFO | (pkg/serializer/seri...tes.
Sep 16 15:44:19 datadog-instance agent[1454]: 2020-09-16 15:44:19 UTC | CORE | INFO | (pkg/serializer/seri...tes.
Sep 16 15:49:17 datadog-instance agent[1454]: 2020-09-16 15:49:17 UTC | CORE | INFO | (pkg/serializer/seri...tes.
Sep 16 15:49:19 datadog-instance agent[1454]: 2020-09-16 15:49:19 UTC | CORE | INFO | (pkg/serializer/seri...tes.
Sep 16 15:49:20 datadog-instance agent[1454]: 2020-09-16 15:49:20 UTC | CORE | INFO | (pkg/collector/runne... ntp
Sep 16 15:49:20 datadog-instance agent[1454]: 2020-09-16 15:49:20 UTC | CORE | INFO | (pkg/collector/runne... ntp
Sep 16 15:54:19 datadog-instance agent[1454]: 2020-09-16 15:54:19 UTC | CORE | INFO | (pkg/serializer/seri...tes.
Sep 16 15:54:19 datadog-instance agent[1454]: 2020-09-16 15:54:19 UTC | CORE | INFO | (pkg/serializer/seri...tes.
Hint: Some lines were ellipsized, use -l to show in full.
[dzmitry_mezhva@datadog-instance ~]$ datadog-agent version
Agent 7.22.0 - Commit: 8db451d - Serialization version: v4.40.0 - Go version: go1.13.11
[dzmitry_mezhva@datadog-instance ~]$
```

app.datadoghq.com/infrastructure

Welcome, Dzmitry! Get started You are 33% done setting up. You have 14 days left in your trial. Upgrade

1 Host up / 1 total

Filter by name, tag, or app Group by tags: Showing the only entry.

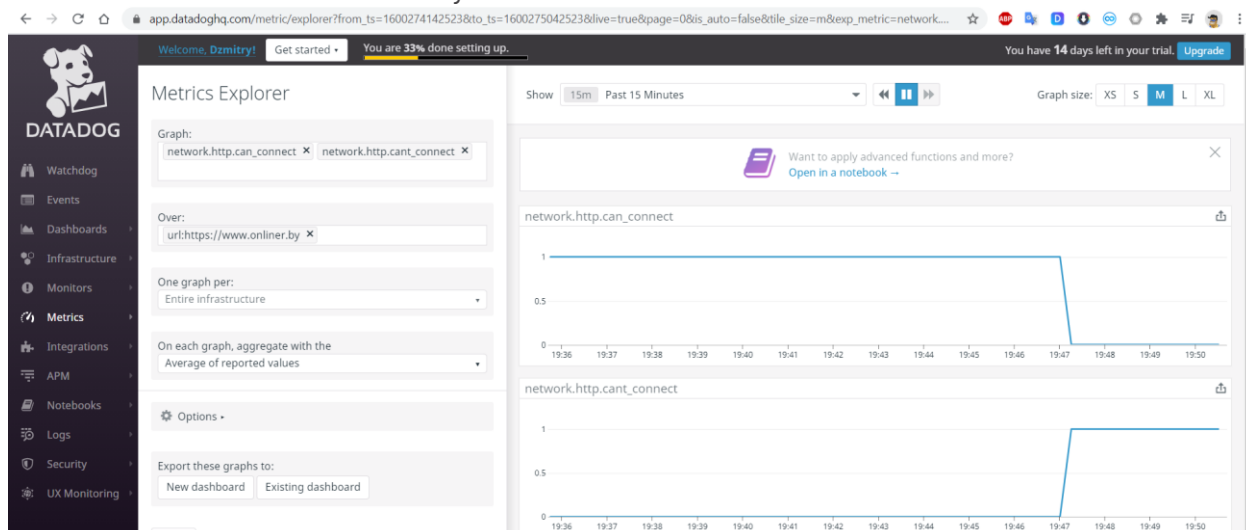
Hostname	Status	CPU	IOWait	Load 15	Apps
datadog-instance.us-central1-a-c.devopslab2020-288208.int...	UP	0.2%	0%	0.05	nto system

(Click any row for details)

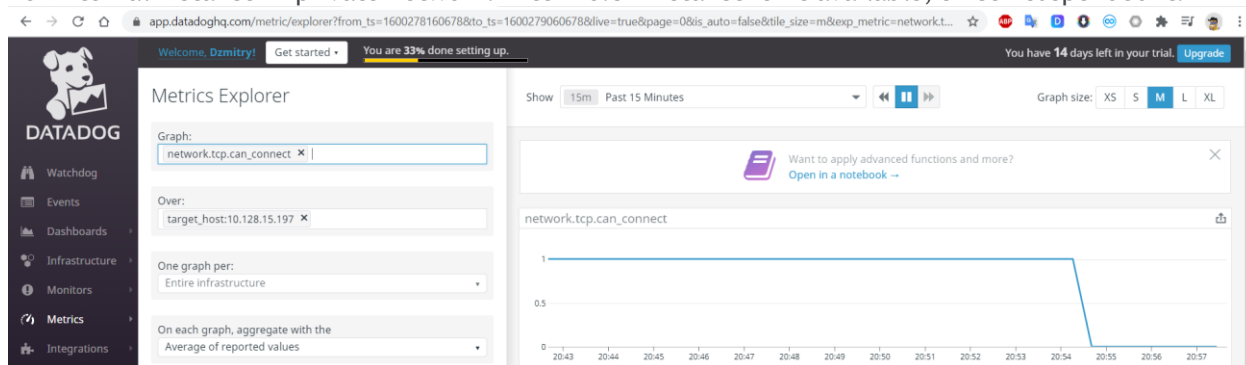
JSON API permalink

### 3. Web (agent setup)

For external web site - [www.onliner.by](http://www.onliner.by). After 19.47 site isn't available, since I added follow row in /etc/hosts: 127.0.0.1 www.onliner.by



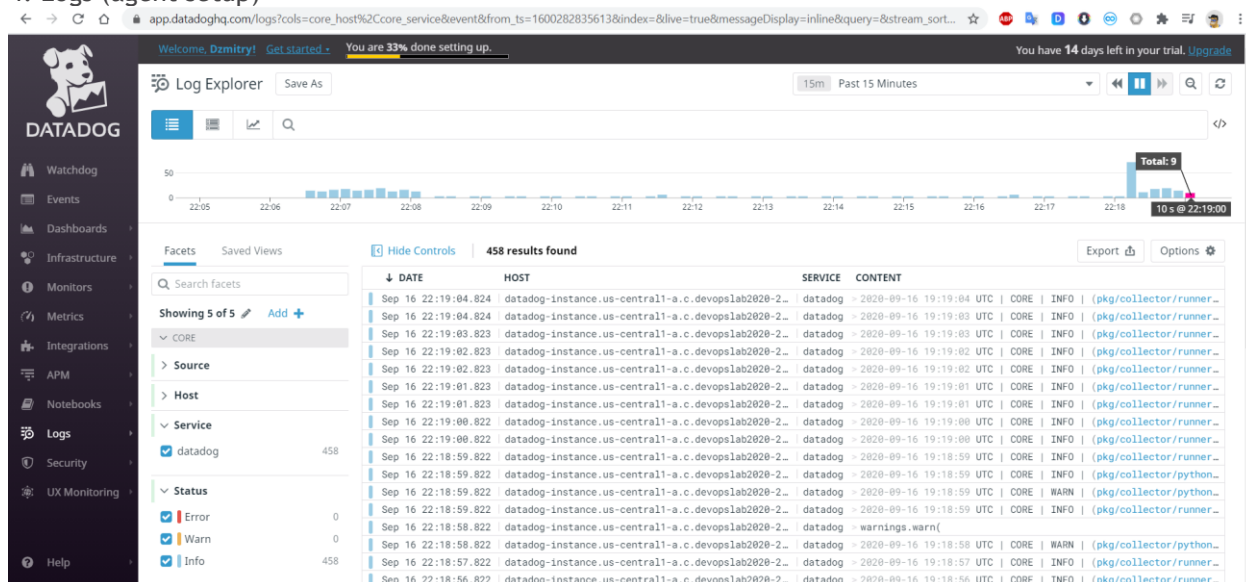
For internal instance in private network. After 20.54 instance isn't available, since I suspended it.



The screenshot shows the Google Cloud Platform VM instances page. The table lists the following VM instances:

Name	Zone	Creation time	Recommendation	In use by	Internal IP	External IP	Connect
centos-instance	us-central1-a	Sep 16, 2020, 7:59:57 PM			10.128.15.197 (nic0)	None	SSH
datadog-instance	us-central1-a	Sep 16, 2020, 6:28:28 PM			10.128.15.196 (nic0)	34.123.47.74	SSH

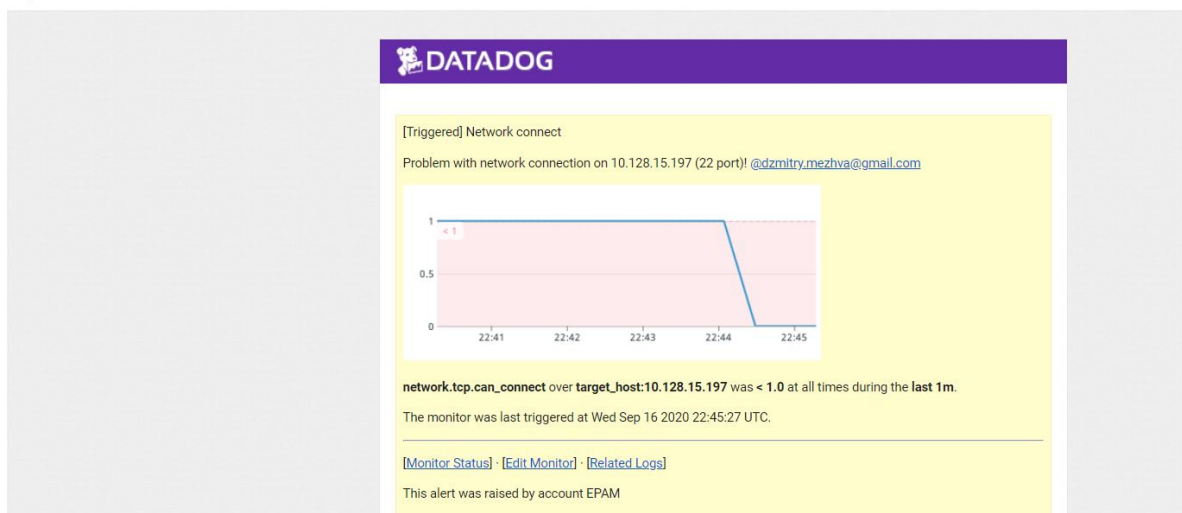
### 4. Logs (agent setup)



## 5. Monitors

[Monitor Alert] Triggered: Network connect Входящие x

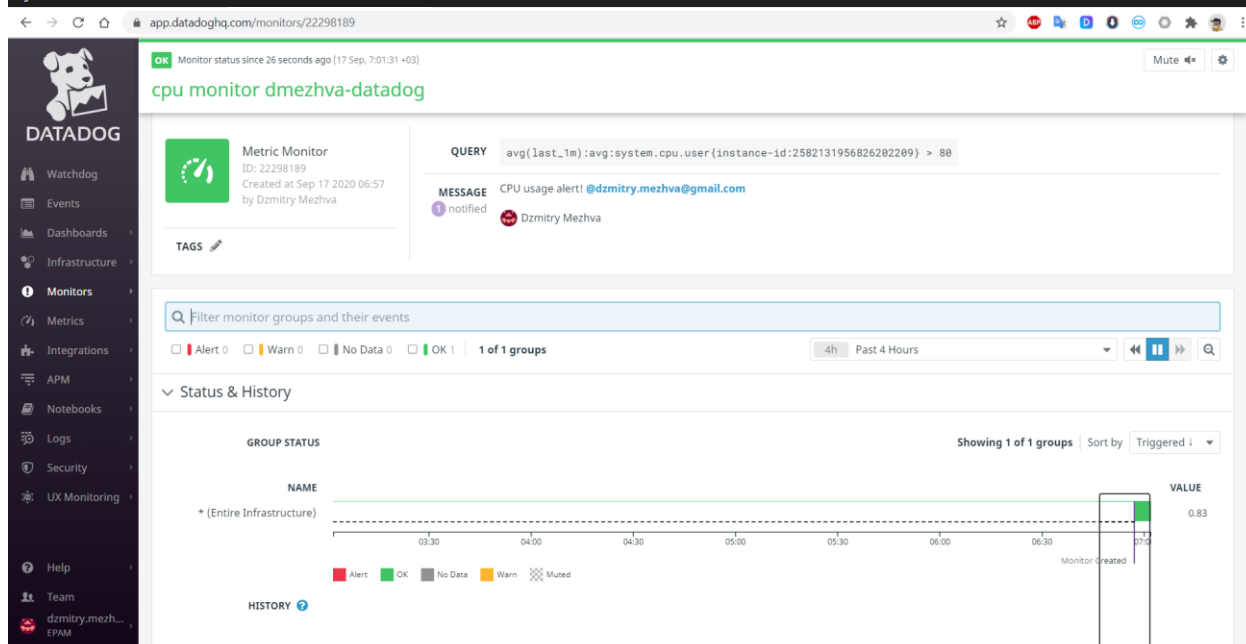
Datadog Alerting <alert@ddg.co>  
кому: я



## 5. Monitors (automation\*)

```
# Configure the Datadog provider
provider "datadog" {
  api_key      = var.DD_API_KEY
  app_key      = var.DD_APP_KEY
}

# Create a new monitor
resource "datadog_monitor" "cpumonitor" {
  name      = "cpu monitor ${google_compute_instance.vm1.name}"
  type      = var.cpumonitor_type
  message   = var.cpumonitor_message
  query     = "avg(last_1m):avg:system.cpu.user{instance-id:${google_compute_instance.vm1.instance_id}} > 80"
}
```



app.datadoghq.com/monitors/22298189?live=30min

**ALERT** Monitor status since 1 minute ago (17 Sep, 7:06:31 +03)

**cpu monitor dmezghva-datadog**

**Metric Monitor**  
ID: 22298189  
Created at Sep 17 2020 06:57  
by Dzmitry Mezhva

**QUERY** `avg(last_1m):avg.system.cpu.user{instance-id:2582131956826202209} > 80`

**MESSAGE** CPU usage alert! @dzmitry.mezhva@gmail.com  
1 notified  
Dzmitry Mezhva

**TAGS**

Filter monitor groups and their events

☐ Alert 1 ☐ Warn 0 ☐ No Data 0 ☐ OK 0 1 of 1 groups

30m Past 30 Minutes

**Status & History**

**GROUP STATUS** Showing 1 of 1 groups Sort by Triggered

NAME	VALUE
* (Entire Infrastructure)	99.93

**HISTORY**

Legend: Alert (Red), OK (Green), No Data (Grey), Warn (Yellow), Muted (Blue)

[Monitor Alert] Triggered: cpu monitor dmezghva-datadog



**Datadog Alerting** <alert@datdgd.co>  
КОМУ: Я

**DATADOG**

[Triggered] cpu monitor dmezghva-datadog

CPU usage alert! @dzmitry.mezhva@gmail.com

**system.cpu.user** over instance-id:2582131956826202209 was > 80.0 on average during the last 1m.

The monitor was last triggered at Thu Sep 17 2020 04:05:29 UTC.

[\[Monitor Status\]](#) · [\[Edit Monitor\]](#) · [\[Related Logs\]](#)

This alert was raised by account EPAM