Diploma project

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Variant: 7

Stream: 24

2022

APPLICATION TASK AND UI

апрель 2022 г. search update stress Hostname: 04ff13c8387f Moscow

ID	DESC	ABBR	WIND	PREDICTION	PREDICT FOR	TEMP MIN	TEMP MAX	TEMP CURRENT
5323655190937600	Snow	sn	E	2022-04-01	2022-04-01	-1.2	2.4	1.5
6650612851671040	Snow	sn	ENE	2022-04-02	2022-04-02	-2.3	0.8	1.1
5527182584578048	Snow	sn	N	2022-04-03	2022-04-03	-5.7	1.3	0.8
5562170495467520	Snow	sn	S	2022-03-28	2022-04-04	-4.1	2.2	1.4
4543850761682944	Snow	sn	S	2022-03-31	2022-04-05	-3.9	3.4	2.5
5502125946699776	Snow	sn	SE	2022-03-30	2022-04-06	-1.4	3.8	2
4691041304182784	Snow	sn	SW	2022-03-31	2022-04-07	-1	3.3	3.3
6481210223099904	Snow	sn	NNW	2022-04-01	2022-04-08	0.6	6.2	2.9
5528833496186880	Snow	sn	SSE	2022-04-02	2022-04-09	0.1	8.6	1.3
5456108895338496	Snow	sn	SW	2022-04-02	2022-04-10	0	7.1	5.8
5234457310134272	Snow	sn	W	2022-04-04	2022-04-11	1.3	5.2	4.5
6446830679228416	Snow	sn	WSW	2022-04-05	2022-04-12	1.6	5.5	4.8
5778631042269184	Snow	sn	NNW	2022-04-05	2022-04-13	1.2	3.6	2.6
4887537433706496	Hail	h	NNW	2022-04-08	2022-04-14	2.5	4.9	1.5
5693569617625088	Snow	sn	WNW	2022-04-08	2022-04-15	0.3	1.5	1.2
4594938055491584	Snow	sn	NW	2022-04-09	2022-04-16	-1.4	1.9	1.4
4635419263107072	Snow	sn	N	2022-04-10	2022-04-17	-1.1	3.3	1.9

Variant 7. Using API https://www.metaweather.com/api/ get data about weather in Moscow for current month and store it into your DB: id, weather_state_name, wind_direction_compass, created, applicable_date, min_temp, max_temp, the_temp. Output the data by date (the date is set) in form of a table and sort them by created in ascending order.

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ENVIRONMENT

1. https://github.com/Heyzi/diploma
2. Branches: main, development

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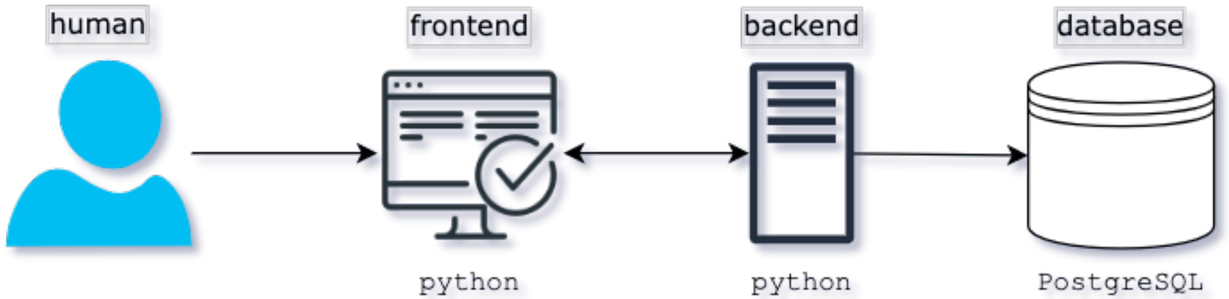
APPLICATION SCHEMA



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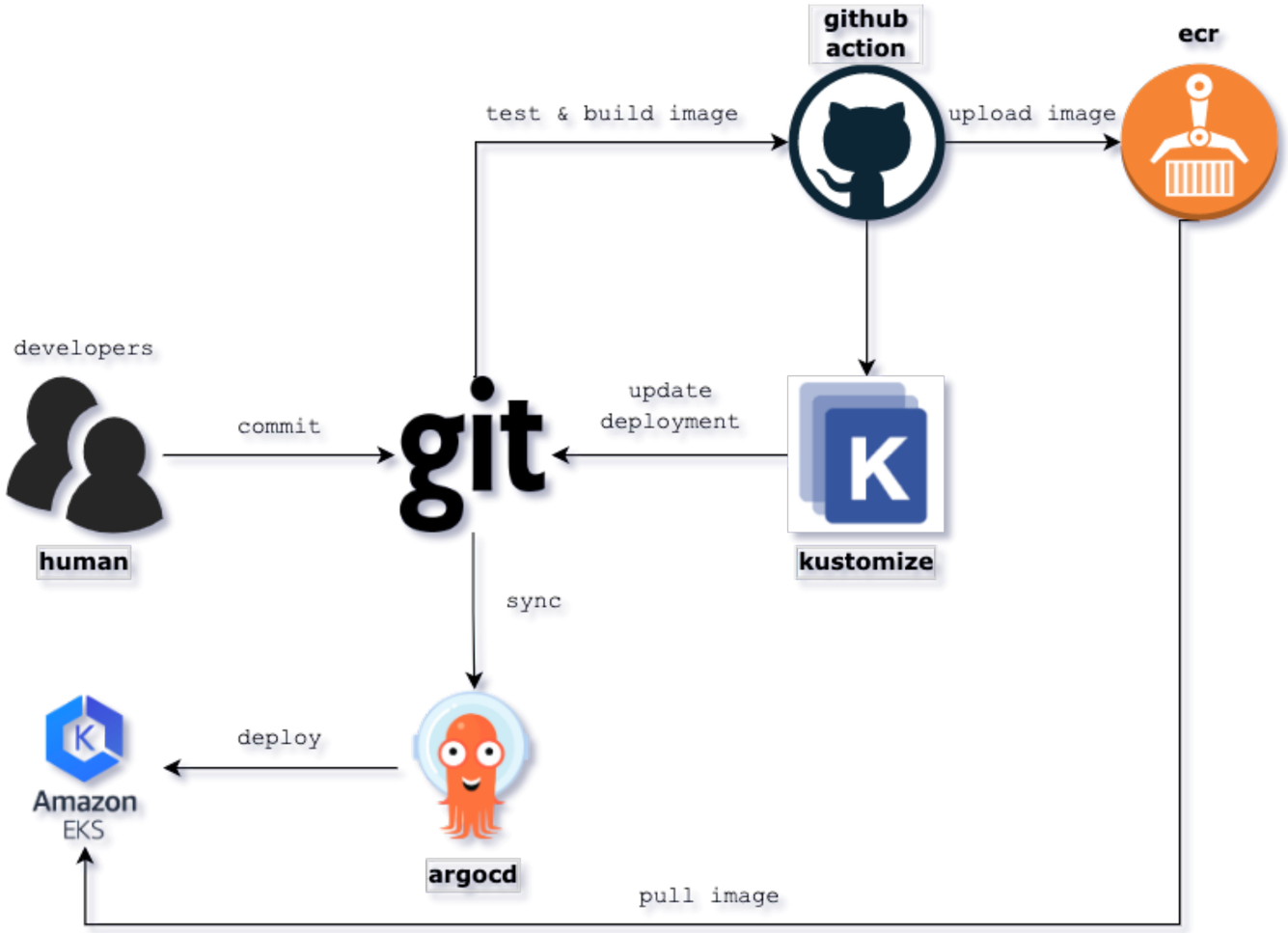
CI\CD SCHEMA



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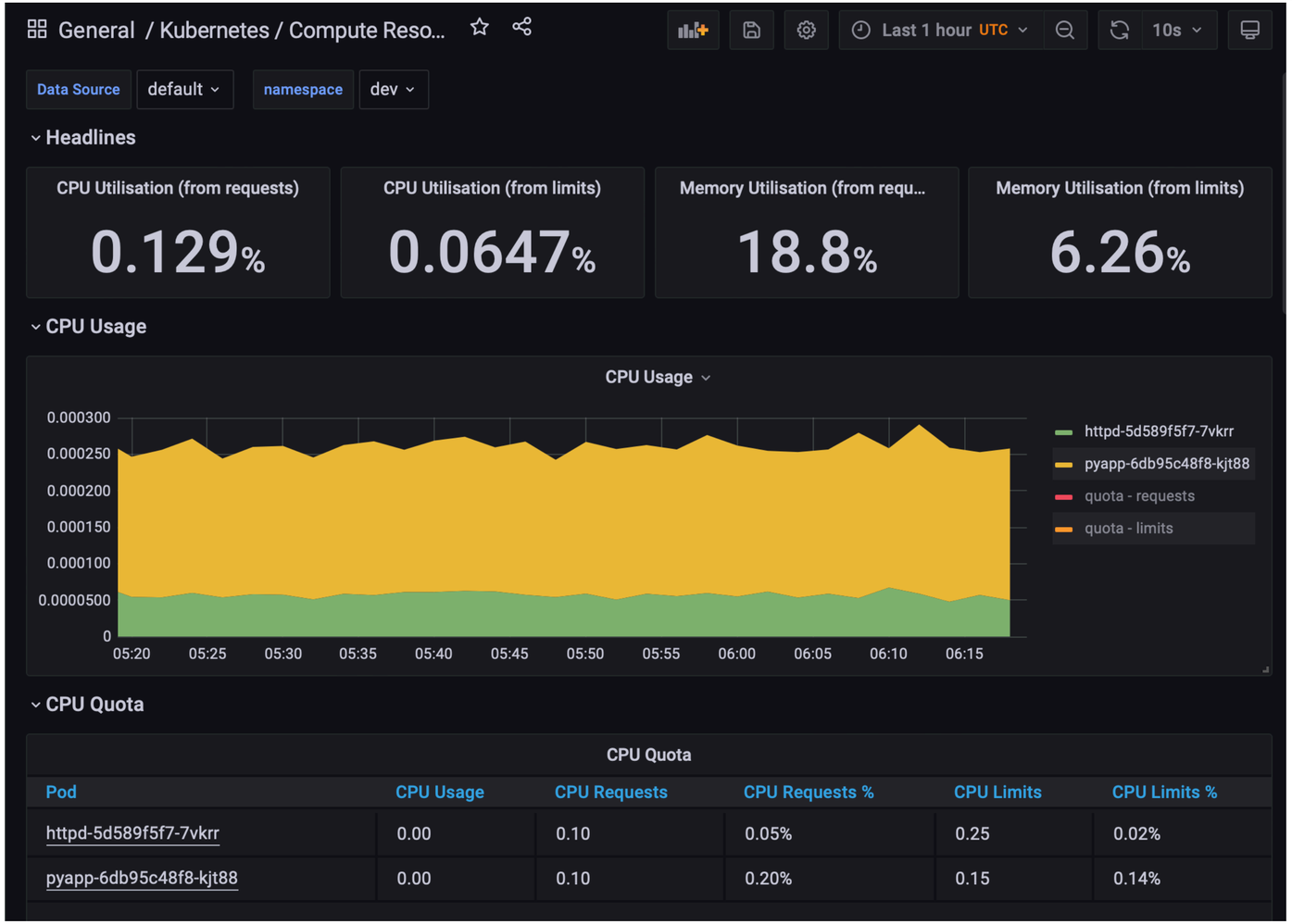
Monitoring



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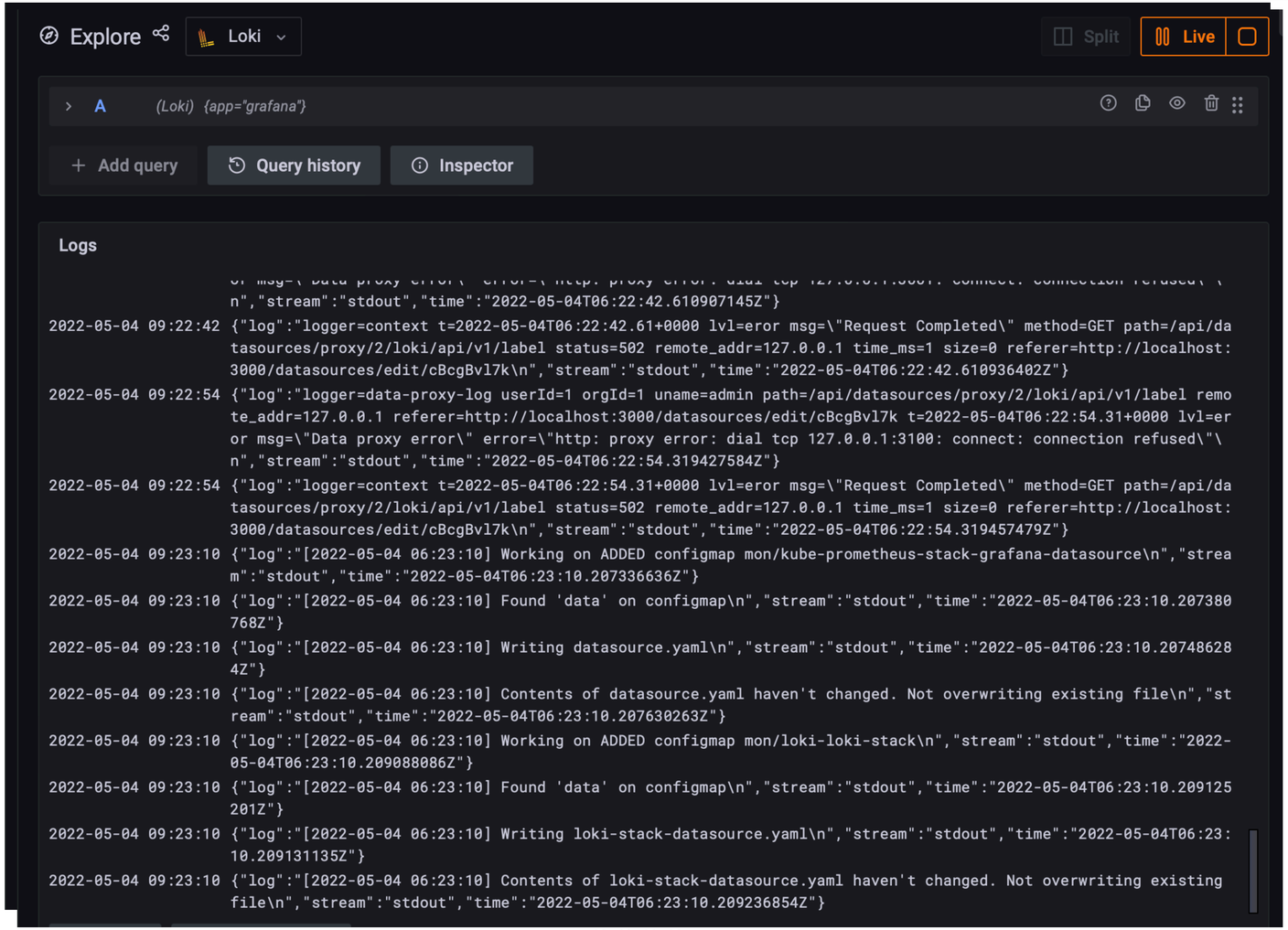
Logs


Explore
Loki
Split
Live
A
(Loki) {app="grafana"}
Add query
Query history
Inspector
Logs
n","stream":"stdout","time":"2022-05-04T06:22:42.610907145Z"}
2022-05-04 09:22:42 {"log":"logger=context t=2022-05-04T06:22:42.61+0000 lvl=eror msg=\"Request Completed\" method=GET path=/api/datasources/proxy/2/loki/api/v1/label status=502 remote_addr=127.0.0.1 time_ms=1 size=0 referer=http://localhost:3000/datasources/edit/cBcgBvl7k\n","stream":"stdout","time":"2022-05-04T06:22:42.610936402Z"}
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Cost calculation

Service	1 Day	30 days
$0.010 per GB - regional data transfer - in/out/between EC2 AZs	$0.072	$2.16
$0.052 per GB Data Processed by NAT Gateways	$0.24	$7.2
$0.052 per NAT Gateway	$0.576	$17.28
$0.048 per On Demand Linux t3.medium Instance	$0.576	$17.28
$0.095 per additional GB-month of backup storage exceeding	$0.192	$5.76
Total:	$1.656	$49.68

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Q&A

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