TWCloud and Cassandra Node

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- Install Telegraf
- Configure Grafana

Required *.json file:

Teamwork_Cloud_Dashboard.json

The following components are deployed on each TWC/Cassandra node:

- Telegraf system metrics collector
- Dropwizard metrics-graphite-3.1.2.jar metrics publishing agent for Java

Install Telegraf

- 1. Install Telegraf in the TWCloud/Cassandra node
 - a. If you have not created the influxdb.repo as in step 1a of the Monitoring Mode, do so at this time.
 b. Install with the command:

sudo yum install telegraf

- c. Edit /etc/telegraf/telegraf.conf as follows
 - i. Locate the section titled "[[outputs.influxdb]]"
 - ii. Edit the line with the **urls =** tag as follows:

```
urls = ["http://monitoringnode_ip:8086"] where monitoringnode_ip is the IP address of the
node where infuxdb is installed (if it is located on the same machine, you may use
127.0.0.1).
```

d. Enable the Telegraf service on startup:

sudo systemctl enable telegraf

e. Start the Telegraf service:

sudo systemctl start telegraf

2. Restart the Teamwork Cloud service:

sudo service twcloud-svc restart

3. Modify Cassandra to allow remote monitoring

- a. Download metrics-graphite-3.1.2.jar from http://central.maven.org/maven2/io/dropwizard/metrics/metrics-graphite/3.1.2/metrics-graphite-3.1.2.jar
- b. Change permissions to allow execution:

sudo chmod 755 metrics-graphite-3.1.2.jar

c. Copy metrics-graphite-3.1.2.jar to /usr/share/cassandra/lib/

d. Edit /etc/cassandra/default.conf/cassandra-env.sh, adding the following at the bottom:

```
# Enable metrics reporting to InfluxDB using the yammer library
METRICS_REPORTER_CFG="metrics-reporter-graphite.yaml"
JVM_OPTS="$JVM_OPTS -Dcassandra.metricsReporterConfigFile=$METRICS_REPORTER_CFG"
```

e. Create a file /etc/cassandra/default.conf/metrics-reporter-graphite.yaml with the following content:

```
graphite:
  _
   period: 30
    timeunit: 'SECONDS'
    prefix: 'HOST_NAME'
    hosts:
     - host: 'IP_ADDRESS'
      port: 2003
    predicate:
     color: 'white'
      useQualifiedName: true
      patterns:
       - '^org.apache.cassandra.+'
        - '^jvm.+'
```

i. Replacing HOST_NAME with the Cassandra node's hostname, and IP_ADDRESS with the IP address of the monitoring node (where Influxdb is installed).

```
f. Restart Cassandra:
```

sudo service cassandra restart

Configure Grafana

- 4. Configuring Grafana monitoring dashboard:
 a. Log in to http://MONTORINGNODE_IP:3000 you will be displayed the Grafana Login Screen default credentials are admin/admin. Upon logging in, you will be prompted to change the admin password.
 - b. You will be presented with the following screen, click Add data source:

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+			Home Dashboard	
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c. Create the data sources, enter the information as in the following screenshots, and press Save & Test for each. After the data source gets created, click the Data Sources link to continue adding data sources.

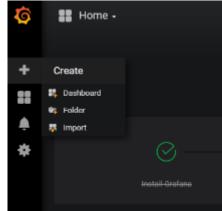
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d. Now that the data sources have been added, select the option to import a dashboard:



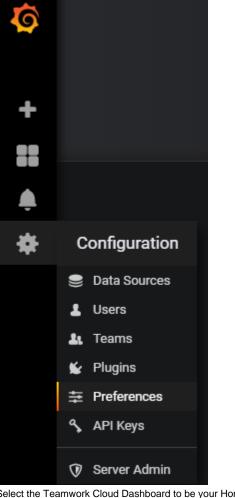
e. To upload .json file, click the Upload .json File:

Import dash			
			1 Upload .json File
Grafana.com Dashboa	ard		
		ed <i>Teamwork_Cloud_Dashboard.json.</i> esented with the following screen, in which yc	nu will need to man the data sour
Options	will be p	esented with the following screen, in which ye	
Name		Teamwork Cloud Dashboard	
Telegraf		Select a InfluxDB data source	
Cassandra		Select a InfluxDB data source	
Teamwork Cloud		Select a InfluxDB data source	
B Import . Map the data sour Options		ncel shown below and click the Import button:	
		Teamwork Cloud Dashboard	
Name		Talaanaf	
Name Telegraf		Telegraf	
		Cassandra	
Telegraf			
Telegraf Cassandra		Cassandra	

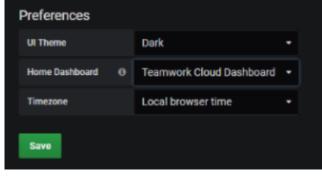
i. Mark the Teamwork Cloud Dashboard as a favorite:

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Mark as favorita							

ii. Select Configuration > Preferences



iii. Select the Teamwork Cloud Dashboard to be your Home Dashboard and click Save.



iv. The admin user has permissions allowing full access. Create a limited access user who will be allowed to view the dashboard without the ability to make modifications. Click Users.

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v.	You will be p	resente	ed with the foll	lowing scree	n. Click Invite.			
	Q Filter by use							+ Invite
	Login		Email		Seen 🛛	Role		
	🔠 admin		admin@localhost		< 1m	Admin		×
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guest

guest

Copy Invite

ix. Paste the link which was copied to your clipboard on a new browser window, and replace "localhost" with the IP address of the monitoring node. You will be presented with the following screen. Change the email field from "guest" to "guest@localhost", enter a password and click the Sign Up button.

enter a password and ci	ick the Sign Up button.					
Hello gues	st.					
admin has invite	d you to join Grafana and the organization Main Org.					
Please complete the following to accept your invitation and continue:						
· ·						
Email	guest@localhost					
Lillan	guestionocamost					
Name	guest					
Username	guest					
Password	password					
Sign Up						
At this point, you will be	redirected to the Grafana dashboard under the new login. Sign out, and sign back in as admin.					
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?						
At this point, change the	e default admin password.					
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New Password						
Confirm Password						
Change Password	Cancel					

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