EC2 Launch Docker/Grafana on Startup

The follow steps are to ensure any changes you've made in Grafana are saved when you Stop/Pause your instance and Start it again.

1. Connect/SSH into your EC2 Instance.
2. Ensure your Grafana Docker Image isn't running. To check this, run the command: `docker ps`
3. Create a docker volume by running the following command: `docker volume create grafana-storage`
4. Verify the docker volume has been created by running command: `docker volume ls`
5. Verify you can run your Grafana image/container with volume by running command:
   `sudo docker run -d -p 80:3000 --volume grafana-storage:/var/lib/grafana grafana/grafana`
   When pasting the above command, ensure it's all on one line in the terminal.
6. Check the container is running: `docker ps`. Also check the Grafana site is running by going to the Instance's public IP address (check the EC2 page).
7. Log into Grafana and make a change - this is to make sure the changes are being saved.
8. Now go to AWS and click `Stop Instance` to pause the instance.
9. From the EC2 Instance list, select your instance and click the `Actions` drop-down -> `Instance settings` -> `Edit user data`
10. In the `Edit user data` page, ensure `Modify user data as text` is selected and then copy & paste the following into the text field:

```
 Content-Type: multipart/mixed; boundary="//"
MIME-Version: 1.0

--//
Content-Type: text/cloud-config; charset="us-ascii"
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Disposition: attachment; filename="cloud-config.txt"

#cloud-config
cloud_final_modules:
- [scripts-user, always]

--//
Content-Type: text/x-shellscript; charset="us-ascii"
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Disposition: attachment; filename="userdata.txt"

#!/bin/bash
sudo docker run -d -p 80:3000 --volume grafana-storage:/var/lib/grafana grafana/grafana
--//--
```

11. Click `Save` and then Start your Instance again. Docker should now be running automatically - verify this by running: `docker ps`. Or go to the Grafana site via the Instance's public IP address.