support

Timebeat / Install / Deploy / Dependencies

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Timebeat Management Platform Installer (recommended method)

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Timebeat operates best when utilising the elastic database and Grafana front end.

The simple commands below will set you up in minutes with a complete out-of-the-box deployment of all the Timebeat dependencies.

During the installation process, you will need to input some IP address information.

For this just insert the host IP address followed by the same again with a hyphen separating the two (example below).

10.101.101.101–10.101.101.101

```
$ sudo dnf install -y snapd

$ sudo ln -s /var/lib/snapd/snap /snap

$ sudo snap install microk8s --classic

$ sudo /snap/bin/microk8s enable dns
$ sudo /snap/bin/microk8s enable hostpath-storage
$ sudo /snap/bin/microk8s enable helm3
$ sudo /snap/bin/microk8s enable metallb
```

```
During this step you will be asked to insert an IP address.
This will be in the format of "IPaddress-SameIPaddress" see above


$ sudo /snap/bin/microk8s helm3 repo add timebeat https://timebeat
$ sudo /snap/bin/microk8s helm3 install timebeat timebeat/timebeat
```

Once complete elastic and grafana will be available.

You can report to elastic using the IP address the installer requests and port 9200.

Grafana will also be on the same IP address using port 80.

Login details will be

username: admin

password: admin

(you will be prompted to change the password upon first login.)

To check whether the system is deploying or deployed the below command will provide the information:

```
$ sudo /snap/bin/microk8s kubectl get all --all-namespaces
```

The output should look similar to the below:

```
[root@fedora ian]# /snap/bin/microk8s kubectl get all --all-namespaces
NAMESPACE        NAME                                           READY   STATUS      RESTARTS        AGE
metallb-system   pod/speaker-vmh54                              1/1     Running     1 (8m47s ago)   9m48s
metallb-system   pod/controller-6dfbf9b9c6-bqx88                1/1     Running     1 (8m47s ago)   9m48s
kube-system      pod/hostpath-provisioner-76f65f69ff-74z5b      1/1     Running     1 (8m47s ago)   10m
kube-system      pod/coredns-66bcf65bb8-cvnzr                   1/1     Running     1 (8m47s ago)   17h
kube-system      pod/calico-kube-controllers-9969d55bb-7wbgj    1/1     Running     1 (8m47s ago)   17h
kube-system      pod/calico-node-wbl9h                          1/1     Running     1 (8m47s ago)   17h
default          pod/kibana-5577599bc9-xrr6s                    1/1     Running     0               9m25s
kube-system      pod/hostpath-provisioner-fedora-96km9          0/1     Completed   0               9m25s
default          pod/elasticsearch-8b8447f99-hzdj4              1/1     Running     0               9m25s
default          pod/grafana-779cf7c754-mgfgt                   1/1     Running     0               9m25s

NAMESPACE        NAME                     TYPE          CLUSTER-IP       EXTERNAL-IP      PORT(S)                     AGE
default          service/kubernetes       ClusterIP     10.152.183.1     <none>           443/TCP                     7d17h
kube-system      service/kube-dns         ClusterIP     10.152.183.10    <none>           53/UDP,53/TCP,9153/TCP      17h
default          service/kibana           LoadBalancer  10.152.183.155   10.101.101.212   5601:30346/TCP              9m25s
default          service/grafana          LoadBalancer  10.152.183.217   10.101.101.212   80:31804/TCP                9m25s
default          service/elasticsearch    LoadBalancer  10.152.183.193   10.101.101.212   9200:32150/TCP              9m25s

NAMESPACE        NAME                          DESIRED   CURRENT   READY   UP-TO-DATE   AVAILABLE   NODE SELECTOR               AGE
kube-system      daemonset.apps/calico-node    1         1         1       1            1           kubernetes.io/os=linux      17h
metallb-system   daemonset.apps/speaker        1         1         1       1            1           beta.kubernetes.io/os=linux 9m48s

NAMESPACE        NAME                                    READY   UP-TO-DATE   AVAILABLE   AGE
kube-system      deployment.apps/coredns                 1/1     1            1           17h
kube-system      deployment.apps/calico-kube-controllers 1/1     1            1           17h
kube-system      deployment.apps/hostpath-provisioner    1/1     1            1           10m
metallb-system   deployment.apps/controller              1/1     1            1           9m48s
default          deployment.apps/kibana                  1/1     1            1           9m25s
default          deployment.apps/elasticsearch           1/1     1            1           9m25s
default          deployment.apps/grafana                 1/1     1            1           9m25s

NAMESPACE        NAME                                              DESIRED   CURRENT   READY   AGE
kube-system      replicaset.apps/coredns-66bcf65bb8                1         1         1       17h
kube-system      replicaset.apps/calico-kube-controllers-9969d55bb 1         1         1       17h
kube-system      replicaset.apps/hostpath-provisioner-76f65f69ff   1         1         1       10m
metallb-system   replicaset.apps/controller-6dfbf9b9c6             1         1         1       9m48s
default          replicaset.apps/kibana-5577599bc9                 1         1         1       9m25s
default          replicaset.apps/elasticsearch-8b8447f99           1         1         1       9m25s
default          replicaset.apps/grafana-779cf7c754                1         1         1       9m25s
```

This system creates a microk8s system so all the usual kubernetes tricks are possible

To update the system which we recommend from time to time as we release new updates run the following commands:

```
$ sudo /snap/bin/microk8s helm3 repo update
```

```
$ sudo /snap/bin/microk8s helm3 upgrade timebeat timebeat/timebeat
```

To stop the deployed services just run the below command:

```
$ sudo /snap/bin/microk8s stop
```

To uninstall and remove all timebeat systems.

```
sudo /snap/bin/microk8s helm3 uninstall timebeat
```

To remove all of the system setups, use the following command:

```
sudo /snap/bin/microk8s reset
```

Timebeat Install is EaSy!

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