Monitoring Applications in Fedora Infra

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Intro

Current scenario

- We currently use Nagios to monitor infrastructure
- Desire to modernise the metrics/monitoring and alerting stack within Fedora Infrastructure
- No central application level monitoring

What's ahead

- Installation of OpenShift Container Platform 4 staging/production clusters in Fedora Infrastructure ✔
- Replace Nagios with Prometheus (for applications) and Zabbix (for hosts) 🚧
- Prometheus is the best* option for monitoring Applications running inside OpenShift
- Prometheus can integrate with Zabbix

* 3/3 devs working on the project agreed to this statement

OpenShift 4 Monitoring Stack

- Integral part of the OpenShift 4 cluster
- Main components:
  - Prometheus (metrics)
  - Alertmanager (alerting)
  - Grafana (dashboards)
- Only accessible to cluster administrators and monitors the health of the OpenShift cluster by default
- **User Workload Monitoring** stack addition extends the features of the Cluster Monitoring stack to namespaces where applications are running on OpenShift
- Once the correct RBAC* permissions are in place, individual app administrators can be given control of their own monitoring/metrics/alerting in a self service manner

*role-based access control

Demo

Next Steps for Devs

- You can login to the cluster via Noggin/IPA already
- Infra and releng will work on migrating workloads from older cluster to newer 4.x version
- If you have an application running, you can help us by:
  - Modify your openshift-apps playbook (PR) to work with new cluster
  - Add prometheus monitoring to your application
    - Instructions to add Prometheus monitoring to an app: prometheus operator
- Eventually Zabbix replacing Nagios to monitor infrastructure
- OpenShift monitoring can integrate with Zabbix

Please ask questions in the Q&A section

Thank you!