



The Open Source Monitoring Stack at Staples

Staples at a Glance

- 4th largest online retailer
- Over 2,000 stores worldwide in 25 countries
- We ♥ open source



MONITORING SCAPE

bigpanda.io/monitoringscape
Jan 2016

ENTERPRISE SUITES



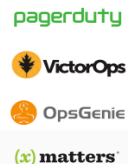
ANOMALY DETECTION



LOG MANAGEMENT



ON-CALL



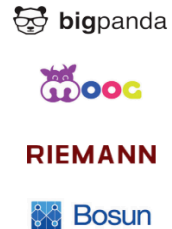
SYSTEM MONITORING



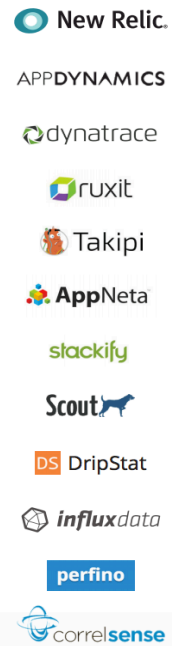
TIME SERIES



EVENT PROCESSING



APM



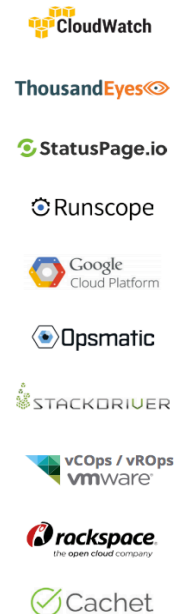
WEB MONITORING



ERROR TRACKING



SPECIALIZED TOOLS



MOBILE APM

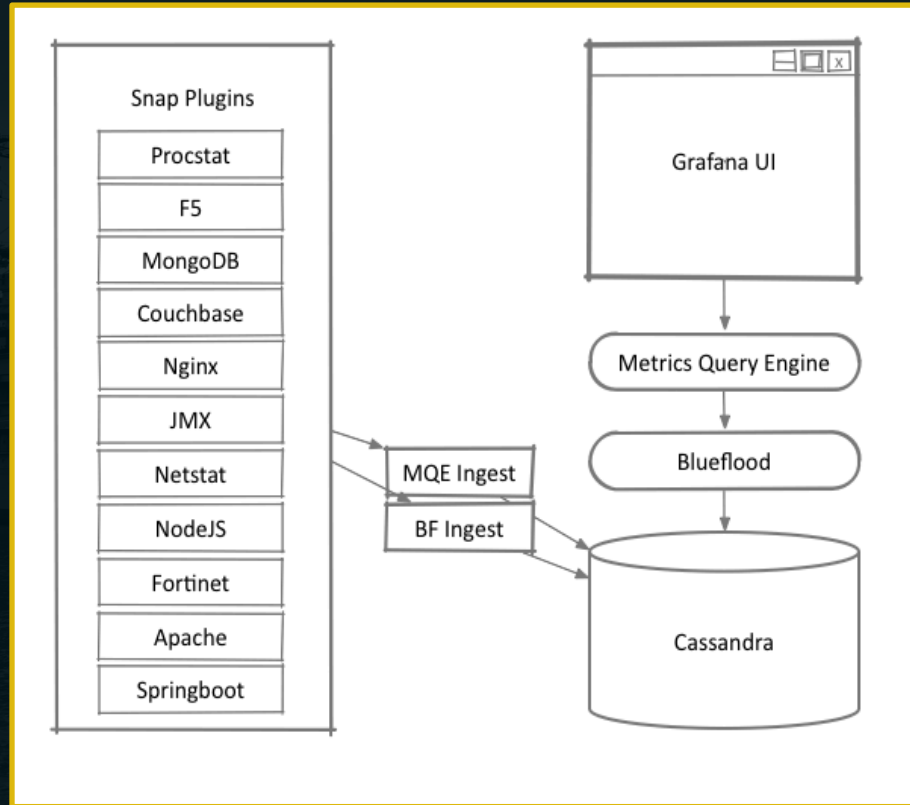


Requirements

- Fast read/writes
- Ability to scale
- Flexible granularity
- Easy to operate



Our Stack



Becoming Gophers



```
1 // GetMetricTypes returns MetricType slice collected by plugin
2 func (netstat *NetstatCollector) GetMetricTypes(cfg plugin.ConfigType) (metrics []plugin.MetricType,
3     fields, err := getStats()
4     if err != nil {
5         return nil, fmt.Errorf("Error collecting metrics: %v", err)
6     }
7
8     for name := range fields {
9         ns := core.NewNamespace(vendor, "procfs", fs, name)
10        metric := plugin.MetricType{
11            Namespace_: ns,
12            Data_:     nil,
13            Timestamp_: time.Now(),
14        }
15        metrics = append(metrics, metric)
16    }
17    return metrics, nil
18 }
```