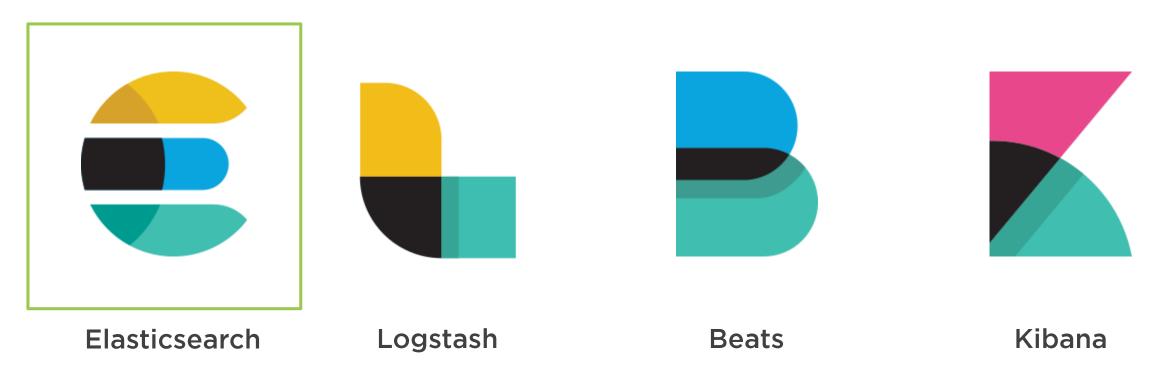
Centralized Logging with the Elastic Stack: Getting Started



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What is the Elastic Stack?



- ✓ Free
- ✓ Open Source
- ✓ Great at full-text searching



Previously Known as the ELK Stack





Elasticsearch Useful for Many Cases



Highly scalable

Built in search, aggregation, and sharding

Used by Microsoft Azure, Wordpress, and Stack Exchange



Your Role Today





DevOps / IT









Take monitoring situation from nonexistent to fully-fledged enterprise-ready

Web-based monitoring and historical searching

Proactive alerting solution



Elasticsearch



Distributed, fast, highly scalable document database

Created by Shay Banon in 2010

We'll use a simple single node cluster

Getting Started with Elasticsearch for .NET Developers

Administering an Elasticsearch Cluster



Logstash



Aggregates, filters, and supplements log data

Forwards altered logs to Elasticsearch

Sending logs directly to Elasticsearch without Logstash can lead to inconsistent data



Kibana



Web-based front-end

Works easily with Elasticsearch for charts, graphs, and visualizing data

Free from the Elastic company





Beats

Small, lightweight utilities for reading logs from a variety of sources. Usually sends data to Logstash

Filebeat: Text log files

Metricbeat: OS and applications

Packetbeat: Network monitoring

Winlogbeat: Windows Event log

Libbeat: Write your own



Alerting



Helps track conditions based on Elasticsearch data

Continually monitors log data for preconfigured conditions

Send notifications to email, Slack, Hipchat, and PagerDuty out of the box



Summary



Discussed tools needed and how we'll build out the infrastructure

Let's begin building our Elastic Stack and installing software

You should have some experience with Windows & Linux administration to get the most out of the course

