



MAY 6, 2023

DevOps Classroomnotes 06/May/2023

Applications we will be observing

- Traditional Applications: These are the applications which run on physical or virtual machines hosted on-premises or cloud
- Containerized Applications: These will be the applications running on kubernetes cluster.
- Technology:
 - Python
 - .net
 - C#
 - nodejs
- Approach:
 - We will be getting info in the following order
 - metrics
 - logs
 - traces
 - What is Site Reliability Engineering?

Traditional Applications

- I will be sharing some scripts when necessary
- Lets choose the same applications for both traditional and k8s

Lab Setup

- Cloud Account (AWS/Azure)
- Elastic Cloud (14 day free trail)
- How to create VMs?

Options

- Ecommerce
 - shopizer (java)
 - nopCommerce (.net)
 - Saleor (python)
 - Sprut Commerce (nodejs)
- Medical Record System/Hospital managment system
 - Open Mrs (java)
 - Bahmni (java)
 - hospital run (node js)

NOP Commerce

- To install this application we need atleast two servers
 - database server: (Linux/Windows)
 - mysql
 - microsoft sql server
 - postgres
 - application/web server: (Linux/Windows)
 - dotnet core
 - nginx
- Our setup:
 - 2 ubuntu Linux servers
- Metrics:
 - Server Metrics

- cpu
- memory
- disk
- network
- Application metrics
 - Requests
 - Errors
 - Response time
- Installation
 - Manual
 - Automated

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