

# FREE DEVOPS/SRE JOB READY COURSE

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- ❖ STARTING FROM - AUGUST 30<sup>rd</sup> 2025 at 6 PM
  - ❖ ONLY ON WEBSITE <https://heydevops.in>
  - ❖ YOUTUBE - <https://www.youtube.com/praveensingampalli>
  - ❖ TELEGRAM - <https://t.me/DevOpsSREbootcamp3>
  - ❖ INSTAGRAM – SINGAM4DEVOPS

# WEEK1

- Introduction to Linux & Distribution
- Linux Filesystem Structure
- Basic File Operations
- Linux User and permission management
- Linux Security
- Process and Job Management
- Networking in Linux
- Disk, Storage & Filesystems
- System Monitoring & Logs
- Systemd and Services

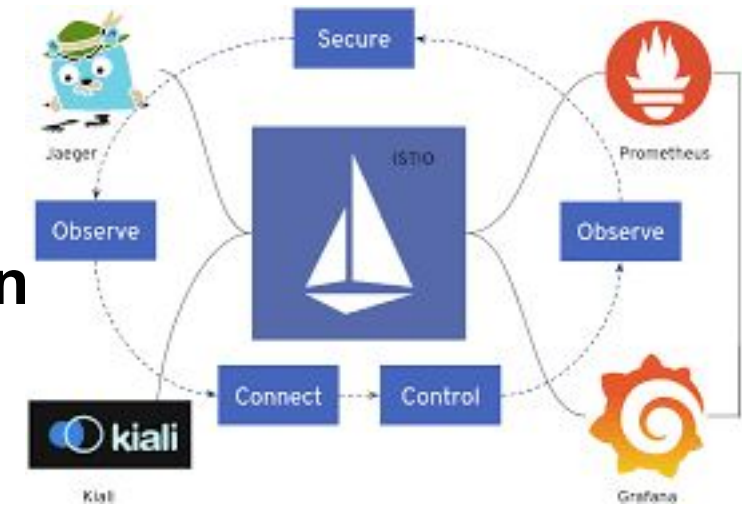


# WEEK2



# kubernetes

- ❖ K8 with Architecture Diagram
- ❖ K8 Architecture with traffic routing
- ❖ K8 Istio understanding with various application
- ❖ K8 PV and PVC with data points
- ❖ K8 Custom Resource Definition
- ❖ K8 KIALI AND JAEGER MONITORING
- ❖ K8 PROJECT

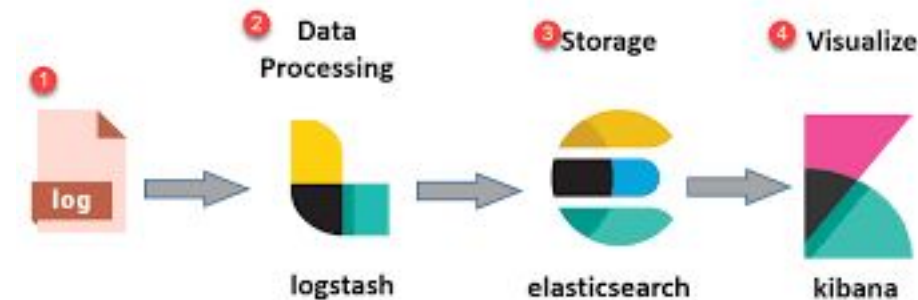


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- The diagram illustrates a CI/CD pipeline for Kubernetes Helm charts using AWS services. The pipeline is divided into two main sections: Source repository and Deploy & Test, both enclosed in a dashed orange box.
- Source repository:** This section contains an AWS CodeCommit icon and the text "AWS CodeCommit" and "5. TRIGGERS CodePipeline".
- Deploy & Test:** This section contains an AWS CodeBuild icon and the text "AWS CodeBuild" and "4. Deploy to test Cluster".
- Re-Version:** This section contains an AWS CodeBuild icon and the text "AWS CodeBuild" and "6. git push Production HELM chart".
- Deploy to Production:** This section contains an AWS CodeBuild icon and the text "AWS CodeBuild" and "7. Deploy to production Cluster using Production HELM chart".
- External Services and Steps:**
- Vendor-A:** Provides "2. GIT path HELM charts" to the Source repository.
  - Amazon ECR Incoming:** Receives "1. DOCKER path" from Vendor-A and "Pull from Amazon ECR" from the Deploy & Test section.
  - Amazon ECR Production:** Receives "5. Test Success Push to Production Amazon ECR" from the Re-Version section and "Deploy to Production" from the Deploy to Production section.
  - Test Cluster:** Receives "4. Deploy to test Cluster" from the Deploy & Test section.
  - Production Cluster:** Receives "7. Deploy to production Cluster using Production HELM chart" from the Deploy to Production section.
- The pipeline is supported by AWS CodePipeline, which orchestrates the workflow between these components.

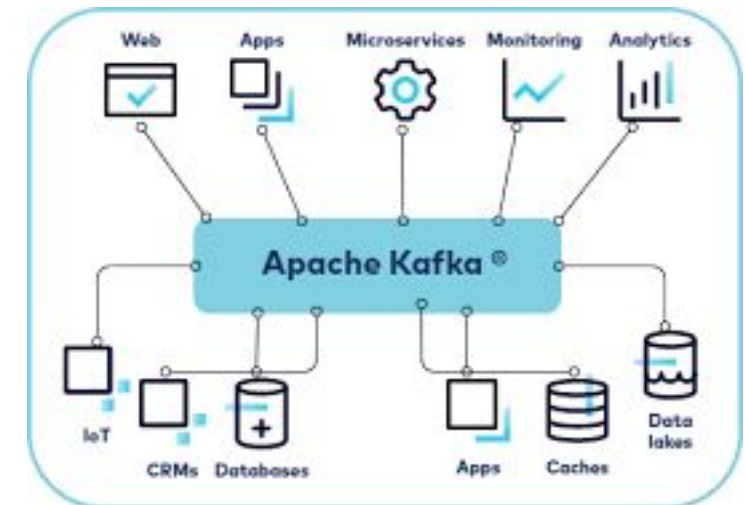
# WEEK4



- ❖ Log Management and kafka
- ❖ ELK Setup and container log management
- ❖ Influx DB setup and time series database for Prometheus
- ❖ Kafka setup and batch processing
- ❖ Monitoring Project



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Thank you all 😊😊



Singam

Signing off

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