

## HA-Proxy Course Contents ( 5 Days)

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### Course Contents

- HAProxy concept and architecture
- Installing HAProxy using Ubuntu and CentOS
- Creating HAProxy cluster HA using KeepAlived
  
- Install HAProxy cluster using Ansible playbook
- Install HAProxy HA KeepAlived using Ansible playbook
- Install KeepAlived monit monitoring using Ansible playbook
  
- Manage HAProxy Using API and curl samples
- Forward HAProxy log to Logstash/elasticsearch
- check log using Kibana
  
- Managing HAProxy Load Balancing Algorithm
- Managing(creating and removing) HAProxy type and mode
- Configuring HAProxy kernel to get high performance
- Configuring HAProxy Load Balancer base on any algorithm types
  
- Configuring HAProxy Round Robin LBA
- Configuring HAProxy Static-rr (Static Round Robin)
- Configuring Least Connection LBA
- Configuring HAProxy Source IP Address Hashed LBA
  
- Configuring HAProxy with SSL Termination
- Configuring HAProxy with SSL Pass-Through
- Configuring HAProxy URL Forwarding
- Configuring HAProxy Using Recipes
  
- Understand HAProxy Server Benchmarking and Tuning
- Configuring HAProxy with HTTP/2 and HTTP/1.1 support
- Configuring HAProxy with gRPC support
- Understanding WAF (Web Application Firewall) for HAProxy
- Configuring HAProxy Defense Against DDOS

- Tuning HAProxy Performance
- Configuring WhiteList IP Address and Restrict Specific IP Address
- Monitoring HAProxy using Zabbix
- Creating Grafana Dashboard for HAProxy frontend and backend