Day - 1

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 - Intra-pod communication (container to container)
 - Inter-pod communication (pod to pod)
 - Pod to service communication
 - External access
 - Kubernetes networking versus Docker networking
 - Lookup and discovery
 - Self-registration
 - Services and endpoints
 - Loosely coupled connectivity with queues
 - Loosely coupled connectivity with data stores
 - Kubernetes ingress

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 - Basic Linux networking
 - IP addresses and ports
 - Network namespaces
 - Virtual Ethernet devices
 - Bridges
 - Routing
 - Maximum transmission unit
 - Pod networking
 - Kubenet
 - o Requirements
 - Setting the MTU
 - o Container networking interface
 - Container runtime
 - o CNI plugin

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- Bridging on bare metal clusters
- o Contiv
- Open vSwitch
- Nuage networks VCS
- o Canal
- o Flannel
- Calico project
- o Romana

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- Quickstart for Calico on Kubernetes
- o Secure a simple application using the Kubernetes NetworkPolicy API
- o Control ingress and egress traffic using the Kubernetes NetworkPolicy API
- Create a user interface that shows blocked and allowed connections in real time
- Install and configure calicoctl
- Project Calico Troubleshooting

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- How it works
- Getting started on Kubernetes
- Deploying flannel manually
- Building & Configuration flannel
- o flannel Backends & Running
- flannel Troubleshooting
- Projects integrating with flannel
- Using network policies effectively

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- Understanding the Kubernetes network policy design
- Network policies and CNI plugins
- Configuring network policies
- Implementing network policies

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- Configuring an external load balancer Via configuration file
- Configuring an external load balancer Via Via Kubectl
- Finding the load balancer IP addresses
- Identifying client IP addresses & Annotating the load balancer
- Understanding potential in even external load balancing
- Service load balancer
- Ingress
- HAProxy
- Utilizing the NodePort
- Custom load balancer provider using HAProxy
- Running HAProxy Inside the Kubernetes cluster
- Keepalived VIP
- Writing your own CNI plugin
- First look at the loopback plugin
- Building on the CNI plugin skeleton
- Reviewing the bridge plugin