

# Egress Controls for Kubernetes workloads

Design and deploy Calico Egress Gateway to extend workload identity beyond Kubernetes clusters for security and networking

## Summary:

Calico's Egress control workshop demonstrates the design, deployment, and configuration of Calico's Egress Gateway. The solution can help organizations address challenges associated with integrating Kubernetes environments and associated workloads into existing infrastructure. Platform and DevOps engineers can use the functionality to extend workload identity beyond the Kubernetes cluster for networking and security requirements.

## Scope

The workshop covers the following,

- The requirement for Kubernetes egress control
- Introduction to Calico Egress Gateway
- Choosing the right Egress Gateway deployment
- Deploying and configuring Egress Gateway
- Monitoring and troubleshooting

## Value

- Understand the challenges associated with integrating Kubernetes environment and workloads into existing infrastructure
- Explore Calico Egress Gateway use cases and deployment options
- Deployment and configuration guides
- In-depth understanding of Egress Gateway for monitoring and troubleshooting
- Alignment with networking, security, and compliance requirements when integrating Kubernetes into existing infrastructure

## Delivery

The workshop is delivered in a 4-hour instruction-led session.

### Module 01 – Kubernetes Egress

- Introduction to Kubernetes networking and egress
- Understanding the networking and security challenges of integrating Kubernetes into existing infrastructure

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## Module 02 – Calico Egress Gateway

- Introduction to Calico Egress Gateway
- Egress Gateway use-cases and deployment options
- Configure Egress Gateway for namespaces
- Configure Egress Gateway for deployments
- Implement Security Policies for egress control

## Module 03 – High-availability and Troubleshooting

- Egress Gateway high availability and failover
- Monitoring Egress Gateway deployments
- Troubleshooting common issues



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