# Internal License and Usage Document: Elasticsearch for Jaeger with Blob Storage Retention

\*\*Document Owner:\*\* [Your Team/Department Name]

\*\*Document Date:\*\* [Current Date]

\*\*Application:\*\* Jaeger (Distributed Tracing)

\*\*Backend Storage:\*\* Elasticsearch (with retention in Azure Blob Storage)

\*\*Deployment Environment:\*\* Azure Kubernetes Service (AKS)

\*\*Elasticsearch License Tiers:\*\*  
- Production: Platinum Subscription  
- Development: Basic (Self-Managed)

## 5. Cost Structure (Elasticsearch Only – CAD, Canada East Region)

Note: AKS and Blob storage costs are excluded (covered in separate infrastructure documentation).

### 5.1 Production Environment

- License Type: Platinum Subscription  
- Minimum Nodes/Pods: 3 Elasticsearch pods  
- Cost Estimate (Canada East Region):  
 - Approx. $2,700–$3,300 CAD per node per month (Platinum)  
 - 3 nodes = ~$8,100–$9,900 CAD per month  
- Support: Included in Platinum subscription

### 5.2 Development Environment

- License Type: Basic (Free)  
- Minimum Nodes/Pods: 3 Elasticsearch pods  
- Cost Estimate (Canada East Region):  
 - License = $0 CAD  
 - Only internal team effort for support/operations

## 6. Compliance and Governance

- Retention managed via scheduled exports from Elasticsearch to Blob Storage  
- Production cluster subject to Elastic Platinum compliance audits  
- Development cluster limited to non-production workloads with Basic license terms

## 7. Conclusion

By combining Blob Storage for retention with a 3-node Elasticsearch setup, this structure provides:  
- Predictable CAD-denominated license costs for production  
- Free but limited Basic licensing for development  
- Cost efficiency by excluding long-term retention from ES and relying on Blob archival  
- High availability and compliance with minimum 3 pods per cluster