

Tungsten Cluster Master Class

Intermediate: Using the Tungsten Cluster TMI

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Topics

In this short course, we will

- Define what the TMI is
- Re-Cap the topologies available using the TMI
- Explore the Tungsten Cluster TMI
 - Manual deploy and configure
 - Cloud Formation Deployment

What is the TMI?

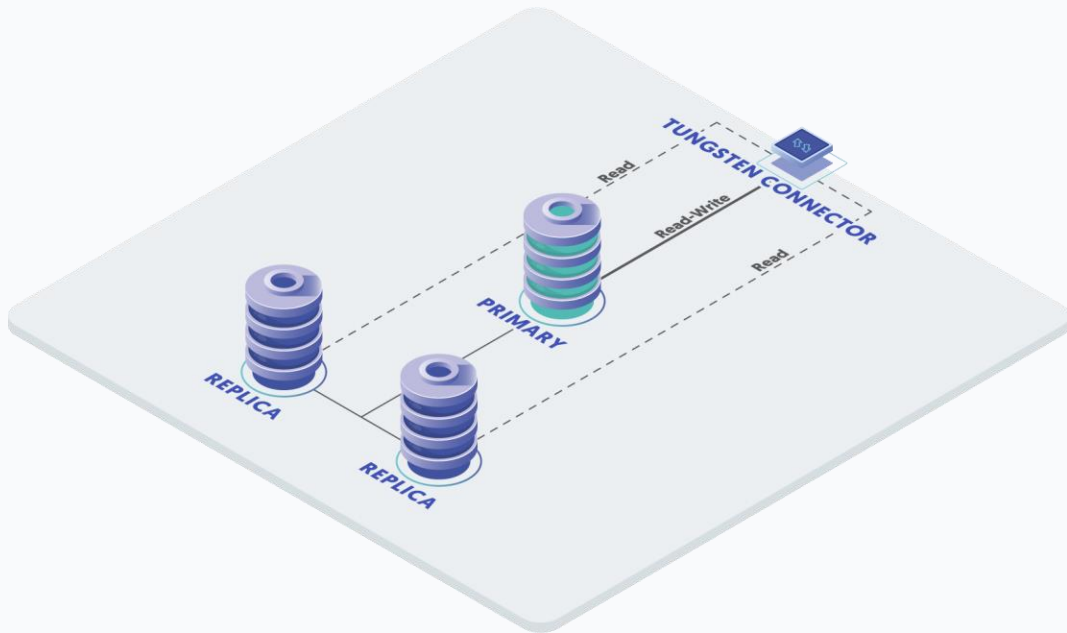
- TMI = Tungsten Machine Image
- Available now via the Amazon and Google Marketplace
 - Tungsten Cluster for MySQL 8.0
- Rocky Linux
- Simple to follow launch wizard, or deploy full stack using Cloud Formation (AWS only)
- Cluster up and running in minutes
- Includes Tungsten Dashboard
- Cheap hourly pricing
- Free Trial available by contacting Continuent Sales

Tungsten Cluster Topologies

Tungsten Cluster

Standalone Cluster

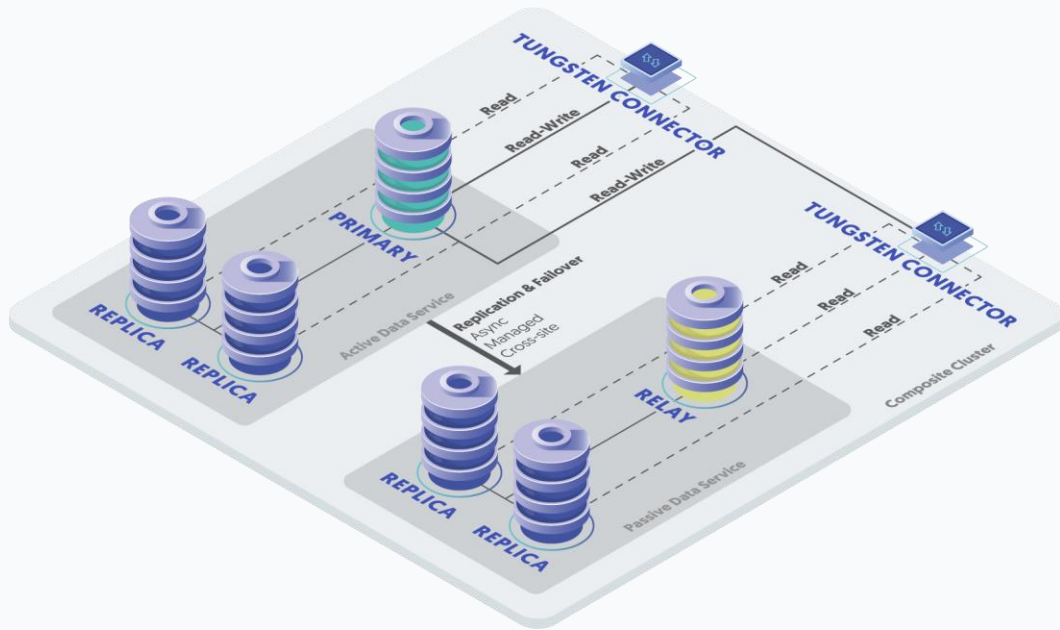
- Minimum 3 nodes
 - 1 Primary
 - 2 Replicas
- Odd number of nodes
- Single datacenter/region



Tungsten Cluster

Composite Active-Passive Topology

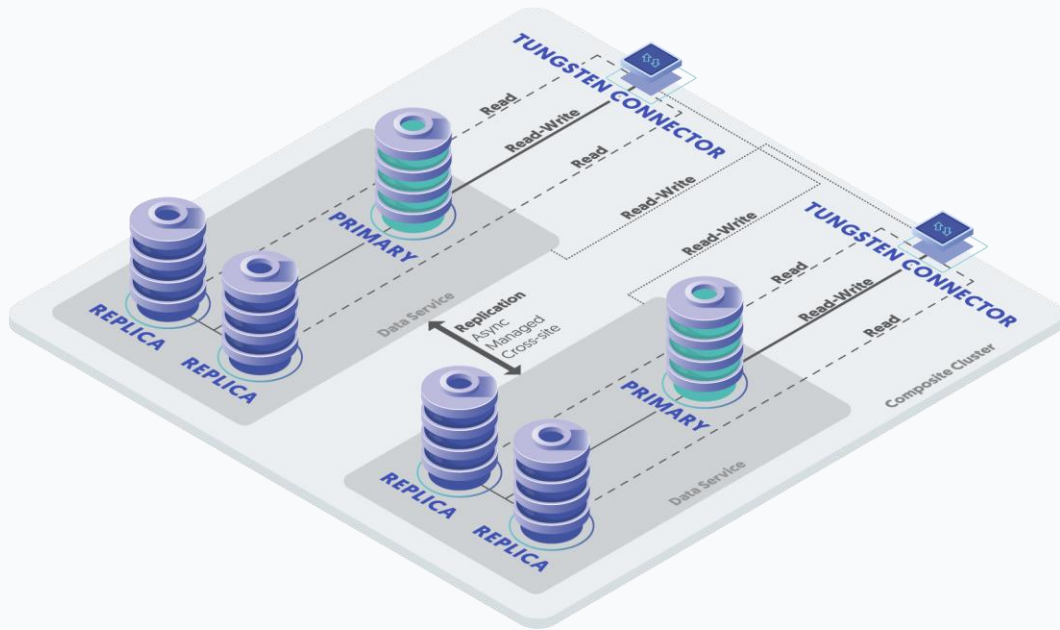
- Minimum 2 clusters
 - Min 3 nodes per cluster
- 1 Cluster for read/write (Active)
- All other clusters read-only (Passive)
- Can be Cross-Region
- Simple to use and implement
- Single, write-able Primary
- Managed cross-site replication
- Often used for Disaster Recovery



Tungsten Cluster

Composite Active-Active Topology

- Minimum 2 Clusters
 - Min 3 nodes per cluster
- All clusters are read/write
- Cross-Region
- Vastly simplified setup and control
- Multiple write-able primaries
- Managed cross-site replication – the managers now are aware of and control the cross-site Replication services
- Available within Dashboard View

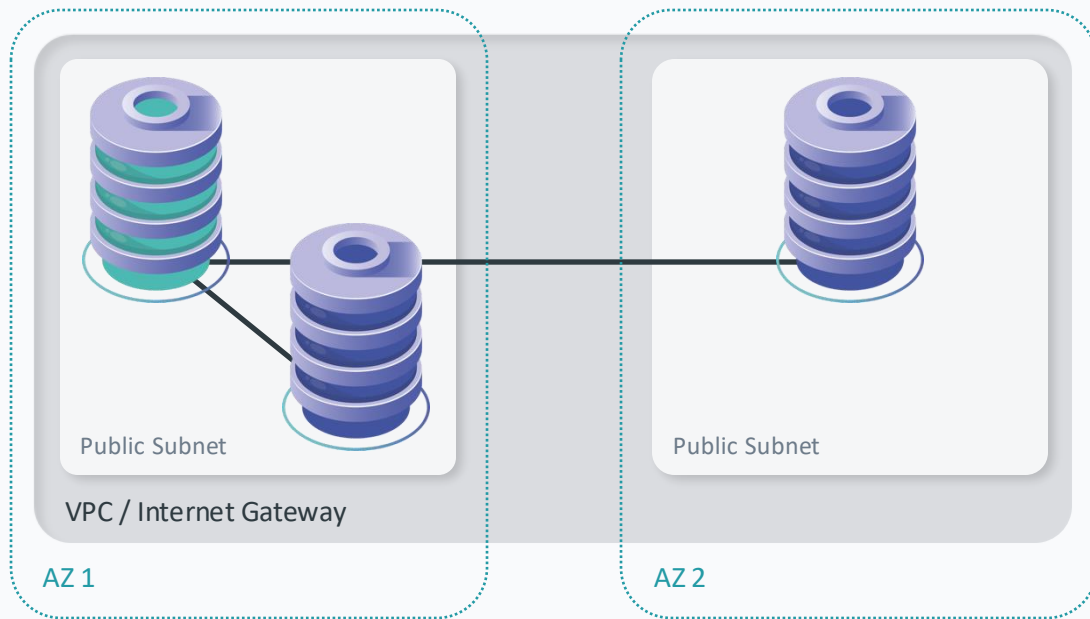


Manual Deployment

- Subscribe to the TMI
- Launch individual instances (Minimum 3 instances per cluster)
- Configure Network according to business requirements
- Ensure security rules correct between nodes
- Connect to each node and follow launch wizard

Cloud Formation Deployment (AWS Only)

- Subscribe to TMI
 - Launch Cloud Formation from URL based on required topology
 - Complete Template to configure cluster(s)
 - Cloud Formation builds full stack
 - Cluster Instance
 - Configures networking
 - VPC & Internet Gateways
 - Distributes hosts across AZ's
 - Active/Active and Active/Passive can only be within same region at present
 - For multi-region distribution, follow Manual Launch steps
- <https://go.continuent.com/single-cluster>
 - <https://go.continuent.com/active-passive-cluster>
 - <https://go.continuent.com/active-active-cluster>



Demonstration

Summary

What we have learnt today

- Reviewed Tungsten Cluster Topologies
- Explored the Tungsten Cluster TMI
 - Manual deploy and configure
 - Cloud Formation Deployment

Thank you for listening

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