

Tungsten Cluster Master Class

Intermediate: Using the Tungsten Cluster AMI

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Topics

In this short course, we will

- Recap Tungsten Cluster Topologies
- Explore the Tungsten Cluster AMI
 - Manual deploy and configure
 - Cloud Formation Deployment



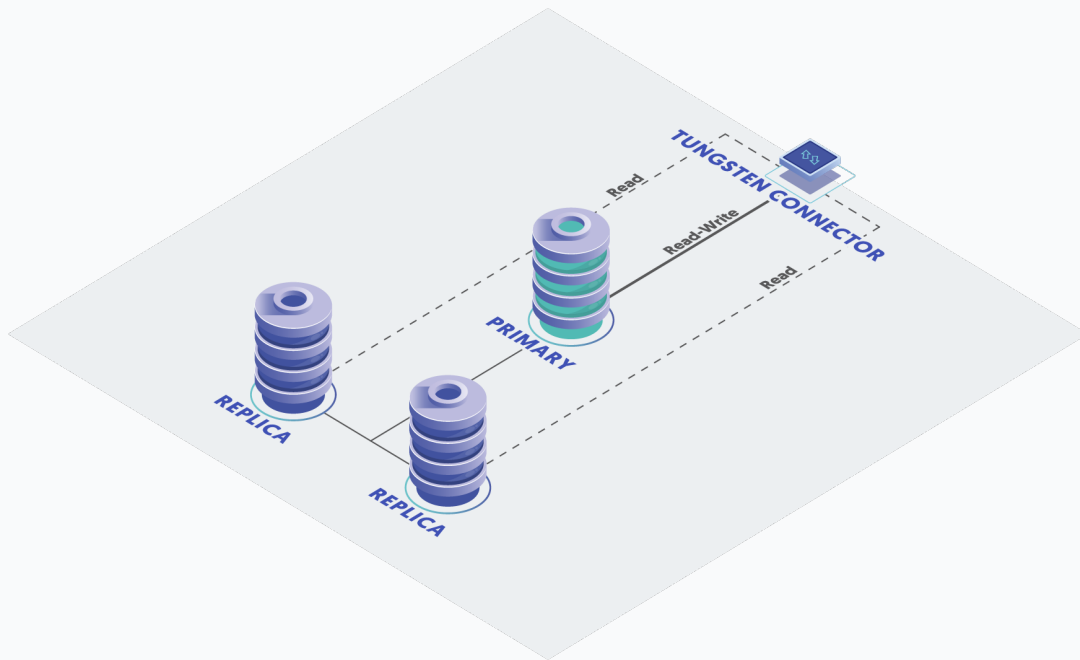
Tungsten Clustering Topologies



Tungsten Cluster

Standalone Cluster

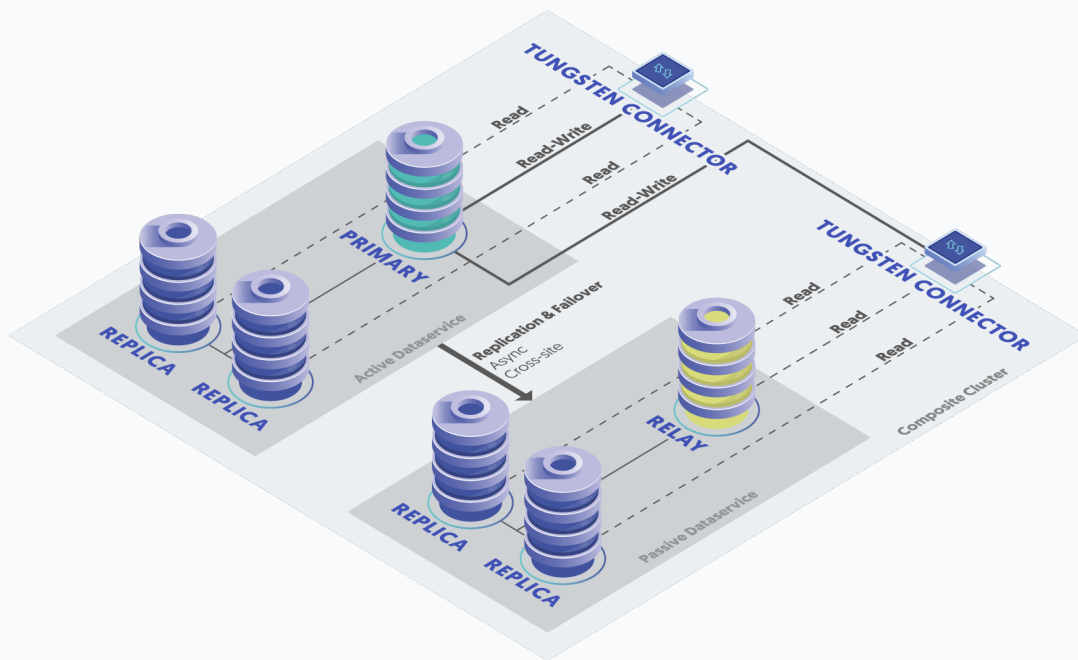
- Minimum 3 nodes
 - 1 Primary
 - 2 Replicas
- Odd number of nodes
- Single datacenter/region



Tungsten Cluster+

Composite Active/Passive Cluster

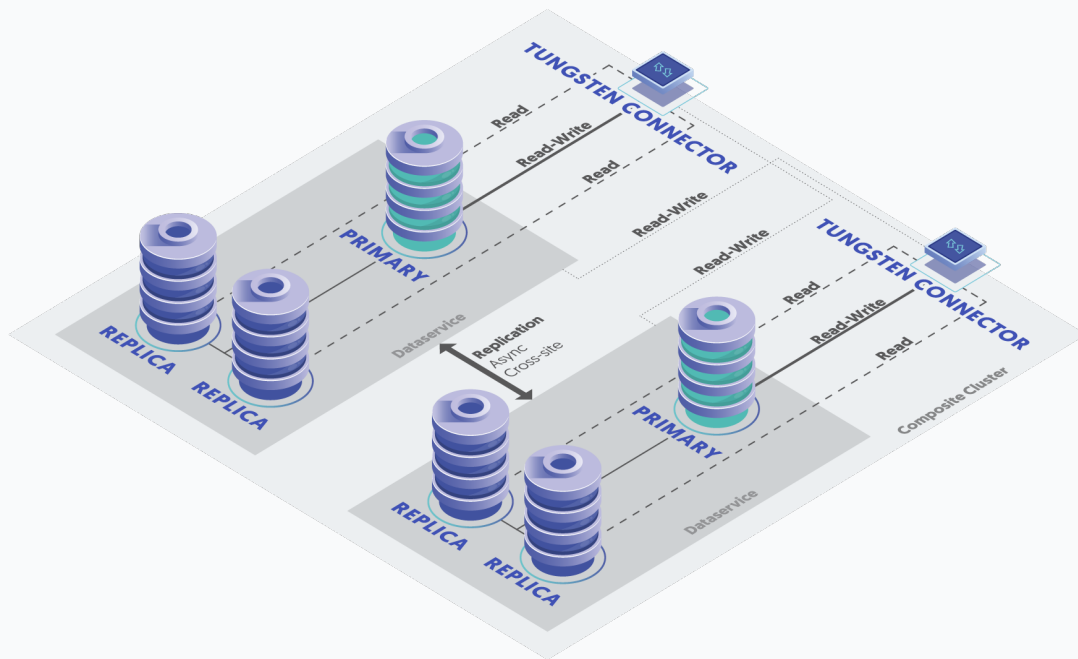
- Minimum 2 clusters
 - Min 3 nodes per cluster
- 1 Cluster for read/write
- All other clusters read-only
- Can be Cross-Region
- Simple to use and implement
- Single, write-able Primary
- Managed cross-site replication
- Often used for Disaster Recovery



Tungsten Cluster+

Composite Active/Active Cluster

- 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 are aware of and control the cross-site Replication services.
- Full Dashboard integration
- Version 6.0+ of Tungsten Clustering



The Tungsten Cluster AMI



Tungsten Cluster AMI

- Available now via the Amazon Marketplace
- Amazon Linux
- 2 AMI's available
 - Tungsten Clustering for MySQL 5.7
 - Tungsten Clustering for MySQL 8.0
- Simple to follow launch wizard, or deploy full stack using Cloud Formation
- Cluster up and running in minutes
- Includes Tungsten Dashboard
- Cheap hourly pricing
 - \$0.55/hour/node
 - 10% discount for upfront annual subscription
 - Free Access to Support for first 14 days
- Free Trial available by contacting Continuent Sales



Manual Deployment

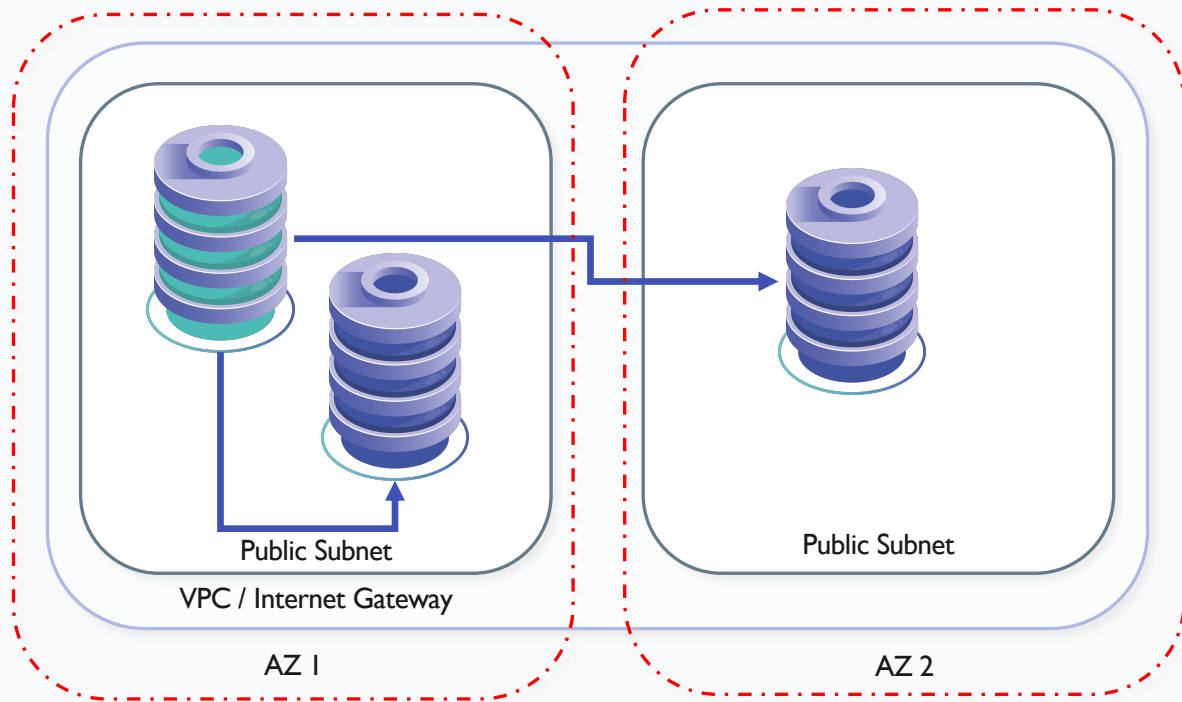
- Subscribe to the AMI
- Launch individual instances (Minimum 3 instances per cluster)
- Configure Network according to business requirements
- Ensure security rules correct between nodes
- Connect to each node and follow launch wizard



Cloud Formation Deployment

- Subscribe to AMI
 - 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 AMI
 - Manual deploy and configure
 - Cloud Formation Deployment



Congratulations!

- Thank you for following the Tungsten Cluster Master Class!
- Make sure you complete all the tests to receive your digital certificate!
- Re-watch all the training videos as many times as you want!
- How did we do?
 - We'd love to hear your feedback (The good and the bad!)
 - Email: customer.success@continuent.com
 - Any topics we didn't cover? Let us know!



THANK YOU FOR LISTENING

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