

Tungsten Cluster Master Class

Intermediate: Tungsten Cluster Maintenance

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Topics

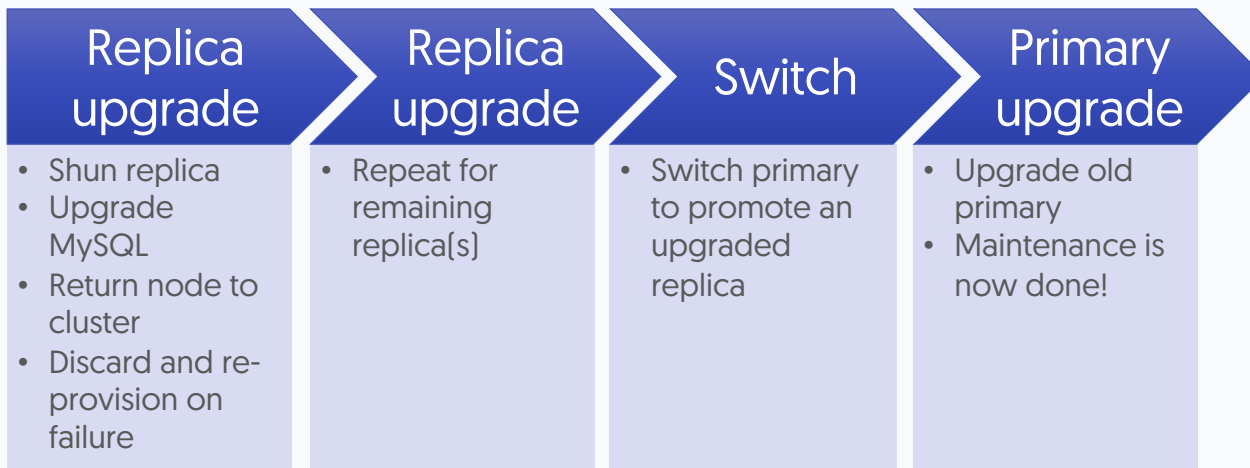
In this short course, we will

- Discuss Maintenance Operations
 - Start and stop the software
 - Isolating Cluster Nodes
 - Updating Cluster parameters
 - Rolling Maintenance & Performing Switches
 - Upgrading Tungsten Software



Rolling Maintenance

Rolling maintenance proceeds node-by-node starting with replicas and proceeding to primary.



Tungsten Upgrades - INI

- Download and extract software on EVERY node
- Check Release Notes!
- Place cluster into MAINTENANCE Mode
- On each node in turn, issue:
 - `tools/tpm update --replace-release`
 - Add `--no-connectors` if either a connector host OR connectors co-exist on database nodes
- Once complete, issue either `tpm promote-connector` OR `connector restart` one by one on each connector host
- Return cluster to AUTOMATIC



Tungsten Upgrades - Staging

- Download and extract software on Staging node
- Check Release Notes!
- Place cluster into MAINTENANCE Mode
- Gather configuration by using `tools/tpm fetch` OR copy `setup.sh` into new release staging directory
- Issue:
 - `tools/tpm update --replace-release --no-connectors`
 - Omit `--no-connectors` if you want all connectors to be restarted at the same time
- Once complete, issue either `tpm promote-connector` OR `connector restart` one by one on each connector host
- Return cluster to AUTOMATIC



Summary

What we have learnt today

- Start/stop the software
- How Isolate Cluster Nodes
- Update Cluster parameters
- Performed Rolling Maintenance & Switches
- Upgraded Tungsten Software



Next Steps

In the next session we will

- Discuss Monitoring & Troubleshooting
 - Handling (and recovering from) Failovers
 - Skipping Transactions
 - Finding and understanding Log Files
 - Scripts for Monitoring
 - ...and more



THANK YOU FOR LISTENING

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