

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

Start and Stop Tungsten

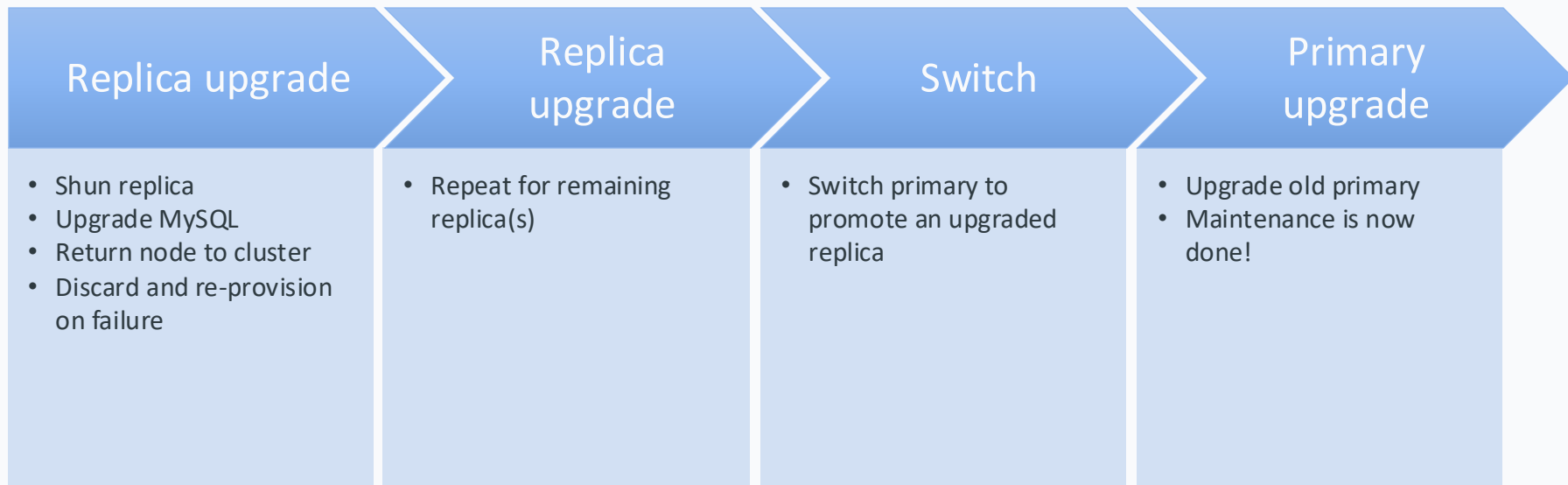
- Either use the alias `startall` and `stopall` or start each component individually:
 - `manager stop|start|restart etc`
- Use `deployall|undeployall` to register/deregister with system
- Use `install=true` during installation to execute `deployall` during deployment
- If stopping manually, place cluster into maintenance to avoid unexpected failovers during the stop/start process

Updating Cluster Properties

- Change `tungsten.ini` accordingly
- Place Cluster into `maintenance`
- Isolate the node using the `cctrl datasource shun` command
- Execute `tpm update`
- Re-introduce node to the cluster
- Always test in dev environment before making changes to production

Rolling Maintenance

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



Tungsten Upgrades

- 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
- Do NOT switch when different Tungsten versions are running
- Return cluster to AUTOMATIC

Summary

What we have learnt today

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

Thank you for listening

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