

NA Training Partner Conference

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Improving the delivery of OpenShift administration III

How to add value to the DO380 delivery with expert students

Ricardo Taniguchi,

Senior Instructor, NA



Agenda:

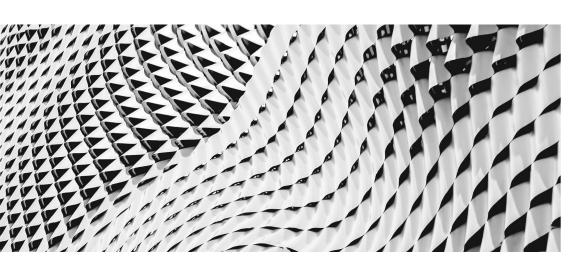
- Facts from a delivery
- Setting expectations
- Adding value





Facts from a delivery





This is a section that addresses important concepts to leverage the use of DevOps practices in a company:

- l. Implement GitOps
- Configure focused on CaaS
- Learn how to installOperators
- Create pipelines supporting GitOps



Adding Value - part I

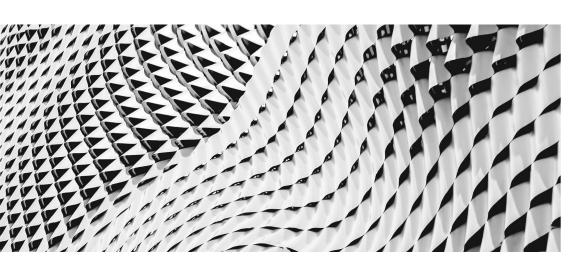
Thy Love YAML and JSON formats as you like your family



Learn how to capture contents using JSONPath and customize YAML files using kustomize.

- Work with JSONPath expressions
- Work with Kustomize to create Overlays.
- Review the DO400 course on Jenkins configuration.





This section addresses
aspects that are important
to leverage Security
concerns:

- Authentication using LDAP
- Use certificates
 internally and
 externally



Adding value - part II

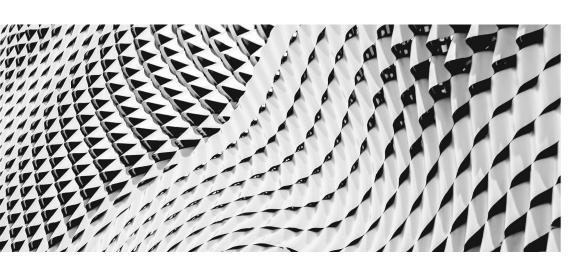
Thy be careful with your certificates before committing anything into OpenShift



Students are eager to mess up with the certificates!

- Update their cluster from the utility machine to fix any major issue.
- Worst case scenario: Reset student's environment





This section addresses
aspects that are important
to leverage infrastructure
concerns:

- Create new worker nodes
- Customize nodes by using Machine
 Config Pools
- 3. Storage concepts



Adding Value - part III

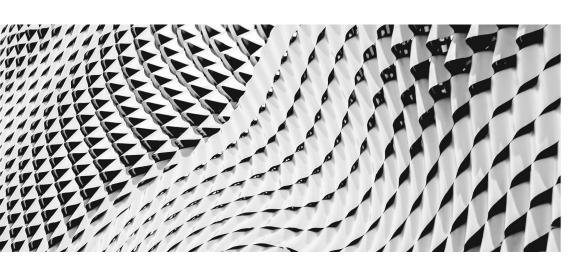
Thy configure your storage using Hardware based storages (such as NetGate)



If you haven't installed OpenShift, go ahead and look at DO326!

- It explains the configuration used in the PXE boot
- NFS storage is already configured and accessible (before starting the GEs, mount it from the workstation)
- Local storage: access the existing worker node using the SSH keys from the utility machine. Run blkid to show the devices.
- Other kinds of storage usually provide their own operators to install them on OpenShift





This section addresses aspects
that are important to monitor
and identify problems:

- Configure Prometheus and Grafana
- ConfigureElasticSearch/Fluentd/Kibana



Adding Value - part IV

Thy accept that other tools are available



Customers would like to use other tools to monitor and capture logs.

- OpenShift supports multiple operators to support integration with third party tools
- Prometheus architecture can be used to capture metrics and send them over to other tools (Zabbix)
- Logging stack can be customized to support EFK, ELK, and other logging tools)



Adding Value - part IV (addendum)

Thy accept students might not have a clue on the concepts of these tools



Customers are attending DO380 as part of a DO700 delivery

- They are opened to use Prometheus but have no clue on how to use that.
- They want to customize the board in Kibana.



Thank you!

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