Rejuvenating Voltha Logging Ecosystem

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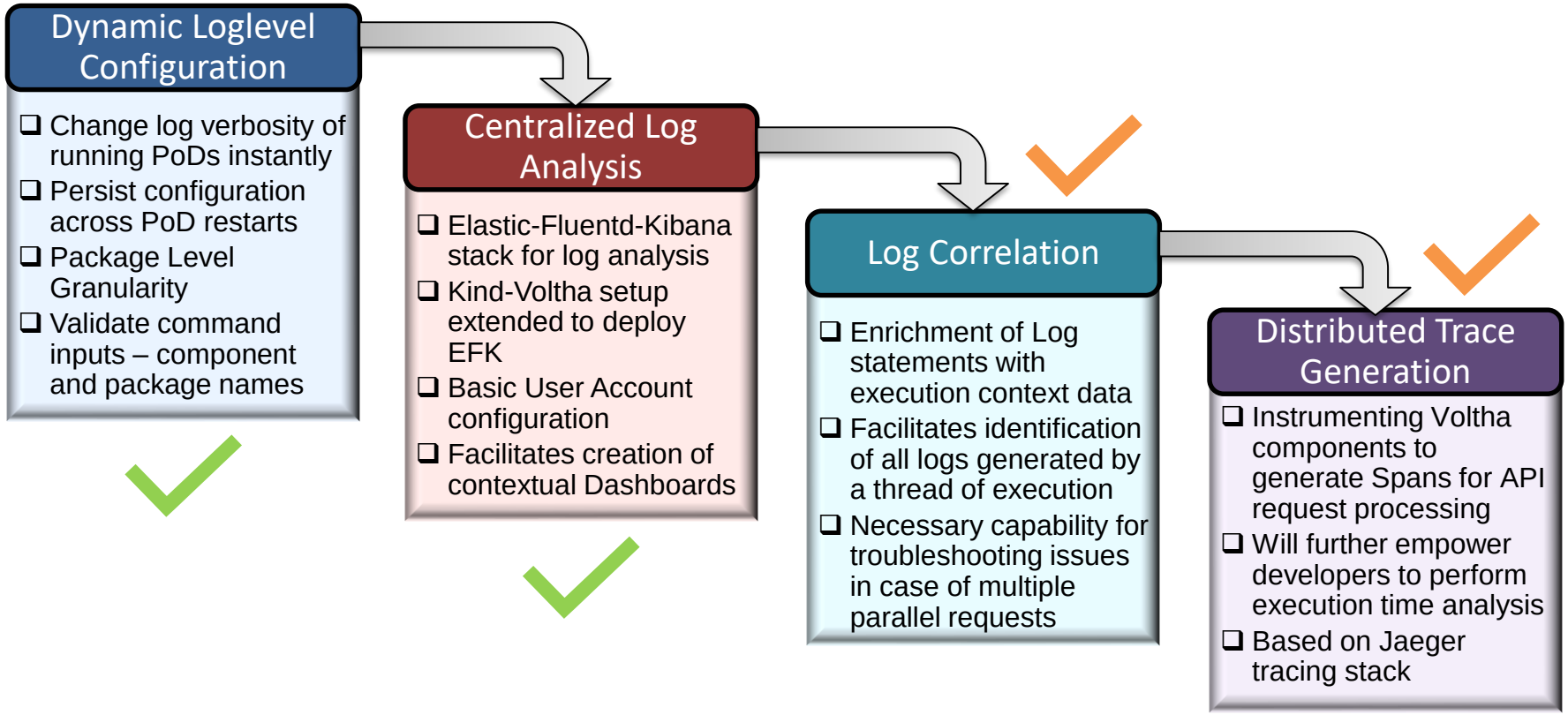
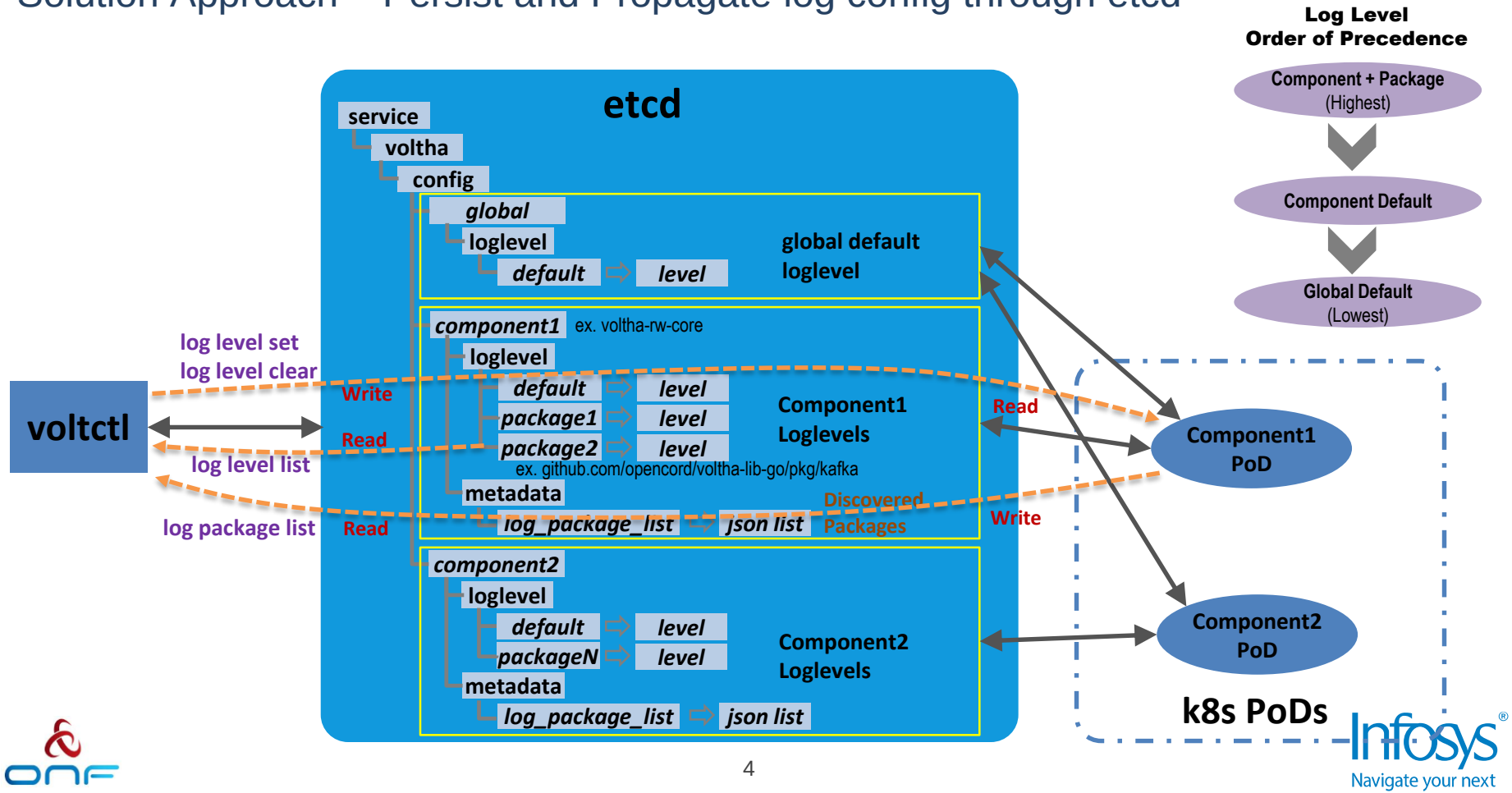
Voltha Logging Ecosystem is undergoing some Significant Changes



Navigate your next

Dynamic Log Configuration for VOLTHA Components

Solution Approach – Persist and Propagate log config through etcd



Demonstration

Dynamic Log Configuration for VOLTHA Components

Centralized Log Analysis for VOLTHA Ecosystem

Solution approach – Centralize logging through EFK

- The EFK (elasticsearch, kibana and fluentd-elasticsearch) setup for voltha enables the Operator to view logs from all VOLTHA components in a single "stream".
- Kind-Voltha script enables Operator to setup EFK with minimal configuration using WITH_EFK=yes at the time of VOLTHA deployment.
- The number of deployed Pods will be dependent on value of Deployment Type and SCHEDULE_ON_CONTROL_NODES flag as shown in the below table.

Deployment Type	SCHEDULE_ON_CONTROL_NODES flag	Number of Deployed Pods		
		fluend-elasticsearch	kibana	elasticsearch
Minimal	No	2	1	1
Minimal	Yes	3	1	1
Full	No	3	1	1
Full	Yes	4	1	1

Solution approach (Continued)

- By default the security and physical persistence features are not enabled with EFK
- The port-forward will be established to access elasticsearch(9200) and kibana(5601) from outside the Kubernetes cluster.
- To access the kibana web interface use the URL http://localhost:5601

Demonstration

Centralized Log Analysis for VOLTHA Ecosystem

Thank You