Blueprint in Omnideq - Demo

Blueprint is the functionality provided by Omnideq to help users to deploy the application to preferred Kubernetes cluster.

The overview and details related to Cruize, Blueprint can be found on this link.

Prerequisites

- Access to Omnideq
- Cruize subscription uploaded in Omnideq

Let's start by creating a project (demo-project)

- Login to Omnideq
- Create a project

∫ OmniDeq™	
Projects ①	
+ Add Project	0 Host

- Click on 'Cruize' on the left side column
- Click on 'Create Blueprint' button

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Home	Projects > demo-project > Cruize > Application Blueprints	O U	ser Gu	uide
Ø Discover				
💥 Rationalize				
🔊 Cruize	Yoo have not cateds any blaeprints yet Start creating blaeprints?			
Project	Create Blueprint			

We have taken 'nginx' here for deployment.

- Fill in the details
- Click on 'Create Blueprint' button at the bottom

S OmniDe	q ™			() () ≡
Home	Projects > demo-project > Cr	uize > Application Blueprints > Crea	te Application blueprint	() User Guide
Ø Discover	< Add new application blueprint			
☆육 Rationalize	Name*	nginx	Ø	
Transform	Version no.	v0		
🔊 Cruize		Note: The version no. is 0 by default, as th	is the first version in this blueprint	
Project	Blueprint type	Container based		
	Namespace •	nginy	0	
	Description *	Naley application blyoprint domo	O	
		regint application dideprint demo		
	Cancel Create Blueprint			
CloudHedge Teo	chnologies. All Rights Reserved.	1		Terms of Service Privacy Policy OmniDeq Powered by & R6AI

The blueprint will be created

You will be re-directed to the deployments screen as below.

• Click on 'Deployments' tab.

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Home	Projects > demo-project > Cruize > Application Blueprints > nginx > v0 > Deployments	③ User Guide
Ø Discover	Blueprint Deployments Config Maps Secrets Ingress Preferences	Back
💖 Rationalize		
🐊 Cruize		
Project	You have no taded any deployments yet! In order to deploy blueprint, it should have at lasst one deployment. Start adding deployments?	
	Add Deployment(s)	

- Click on **'Add Deployment(s)'** button
- Enter the name for deployment
- Click on 'Add deployment' button

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Home	Projects	> demo-proj	ect > Cruize	> Applica	tion Bluep	rints > ngin	x > v0 > Deploymen	its			c) User Guide
Ø Discover	Blueprint	Deployments	Config Maps	Secrets	Ingress	Preferences						Back
‰¥ Rationalize												
Transform												
🐢 Cruize	1											
Project							Y. In order to dep					
							Add deployment			×		
						,	Please name the new deplo	yment				
							nginx-dep		C	8		
								Canad	Add dooloumo			
								Cancel	Add deployme			

You will be re-directed to the containers screen as below

• Click on 'Add Container' button

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Home	Projects > demo-project > Cruize > Application Blueprints > nginx > v0 > nginx-dep > Containers	User Guide
Ø Discover	Containers Service Replica Image Pull Secrets Termination Grace Period Host Alias Labels & Annotations	Back
💖 Rationalize	> Costainers(i) [441 Costainer	
🐡 Cruize		
Project		
	You have vadaded any containers yet! In order to deploy blueprimit, it should have at least one container. Start adding container?	

- Fill in the details
- Click on **'Add'** button at the bottom

S OmniDe	q™				() () =
Home Biscover	Projects > demo-project > Cr Containers Service Replica	ruize > Application Blueprint	s > nginx > v0 > nginx-dep > Con Grace Period Host Alias Labels & Anno	aliners	User Guide Back
Stationalize ⊗ Transform	> Containers(0) Con	atainer details			
CruizeProject	Image Config Maps Secrets Persistent Volume Claims Resource Allocation Uflerycle Liveness Probe Readiness Probe Startup Probe	Container name * Image name * Image URL * Image tog * Image OS Image pull policy Ports *	nginx-container nginx stable Linux Always 80		
		Add Cancel			

This will create a container.

If you want to add another container, you can add one by clicking on 'Add Container' button

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Home	Projects > demo-project > Cru	ize > Application Blueprints > nginx > v0 > nginx-dep > Containers: nginx-container	() User Guide
Ø Discover	Containers Service Replica In	mage Pull Secrets Termination Grace Period Host Alias Labels & Annotations	Back
💥 Rationalize	> Containers(1)	Container	
🔊 Cruize	Image	Container name: nginx-container	
Project	Config Maps	Image name: nginx	
	Secrets	Image URL: nginx	
	Persistent Volume Claims	Image tag: stable	
	Resource Allocation	Image OS: Iinux	
	liferurle	Image pull policy: Always	
	Linespec	Port: 80	
	Liveness Probe		
	Readiness Probe		
	Startup Probe		
		Eat	

Or if you want to edit the container, click on **'Edit'** button at the bottom

- Add the service to the container, click on 'Service' tab
- Click on 'Add New Service' button

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Home	Projects > demo-project > Cruize > Application Blueprints > nginx > v0 > nginx - dep > Service	⑦ User Guide
Ø Discover	Containers Service Replica Image Pull Secrets Termination Grace Period Host Alias Labels & Annotations	Back
💥 Rationalize ⊙ Transform	Add New Service	
🔊 Cruize		
Project		

- Fill up the details
- Change the **'Service type'** to ClusterIP, NodePort or LoadBalancer as per requirement
- Click on 'Add Container Port(s)' button
- Select the port(s)
- Click on **'Add ports'** button

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Home	Projects > demo-project > Cruize > Application Blueprints > nginx > v0 > nginx-dep > Service									
Ø Discover	Containers Service Replica Image Pull Secrets Termination Grace Period Host Allas Labels & Annotations									
🐋 Rationalize	< Back									
Transform										
🌧 Cruizo	Service name *	nginx-service	0							
Project	Service type	ClusteriP ~								
	Port Mapping * () Add Container Port(s)		Add co	ntainer ports		×				
	Container name			Container name	Target Port / Container P_	Port / Service Port				
			~	✓ nginx-container 80		80				
			1-1 of 1	tems		< 1 >				
	✓ Add Labeis & Annota	tions				Cancel Add ports.				
	Save Cancel									

• Click on **'Save'** button at the bottom

Once blueprint created, go back to application blueprints page

• Click on **'Versions:'** button

гм
Projects > demo-project > Cruize > Application Blueprints
Create Application Blueprint
nginx
Versions: 1
Deployed workloads: 0

• Click on 'Create workload' in the last 'Action' named column

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Home	Projects > demo-project > Cruize > Application Blueprints > nginx versions								Guide
Ø Discover	View Deployed Workloa							/orkloads	
📲 Rationalize	Name	Version \$	Туре	Namespace	Description	Created	¢ Action		
Transform	nginx	v0	container	nginx	Nginx application blueprint demo	User Defined	Create workload		1
🔊 Cruize	Rows per page: 15 V						1-1 of	1 items	< 1 >
Project									

- Fill in the details.
- Select the cluster.
- Namespace will be auto filled
- Click on 'Validate' button at the bottom

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Home	Projects > demo-project > Cru	aize > Application Blueprints > nginx > v0	> Create workload				⑦ User Guide
Ø Discover	1 Define Workload		2 Cluster 0	Configuration			Summary & Deploy
Rationalize	Workload Details			Cluster Details			
Transform	Blueprint type	Container Based		Blueprint namespace	nginx		
20 Designet	Workload type	cluster		Default Cluster	gke-cluster	v 📀	
Project	Environment	development	•	Cluster namespaces	nginx	~	
	Workload name*	nginx-wl1	0	Final namespace	nginx		
				Ingress name	nginx	~	
				View cluster details	View details		
	**Make necessary changes and validate b	efore proceeding to next step!					
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- Click on **'Next'** button twice
- Click on 'Start Workload Deployment'

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Home	Projects > demo-project > Cr	uize > Application Blueprints > nginx	> v0 > Create workload				C	User Gui	de
Ø Discover	Define Workload		\frown	Cluster Configuration			3	Summary &	Deploy
Rationalize Transform Cruize Project	Workload name: nginx-wi1 Blueprint name: nginx : v0 Namespace: nginx Deployment type: Cluster Deployments (1)			Selected cluster: Blueprint type: Ingress class: Environment:	gke-cluster Container based nginx development				
	Deployment Name	4 V	Cluster name			Node name			
	nginx-dep		gke-cluster			Any			
	Rows per page: 15 V						1-1 of 1	tems < 1]>
		_							
	Previous Start Workload Deploym	ent							

You will be directed to the workloads page.

• Click on the refresh button on the right-side

The status of deployment on cluster can be seen in 'K8s Deployment status' column

If everything is correct, then the status will 'Accepted by k8s cluster' else the status will be 'Application deployment declined...'

• Click on 'Check deployment status' to get details of deployment

			View Blueprint Versions
K8S Deplo	oyment status	Refactor Spaces Status	Action
All	Ŧ	All	C Reset filter(s)
⊘ Accep	ted by k8s cluster	Not Applicable	Check deployment status
			< 1 >

You can view the details of deployed application by clicking on icon of the respective workload.

K8S Deployment status		Refactor Spaces Status		Action
All	Ŧ	All	Ψ	C ^a Reset filter(s)
 Accepted by k8s cluster 		Not Applicable		Check deployment status
				Workloads View workload Summan Workload URL Re-deploy workload Delete workload