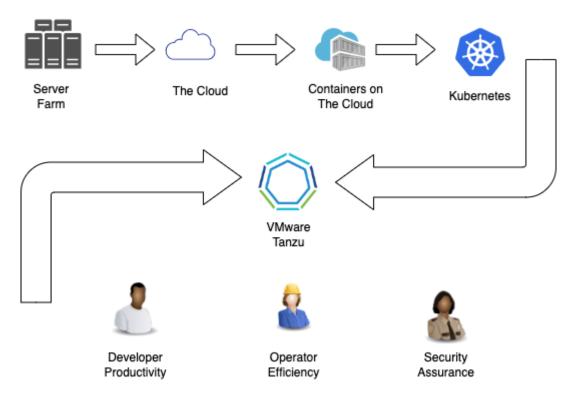
Chapter 1: Understanding the need to Move to a Cloud Platform

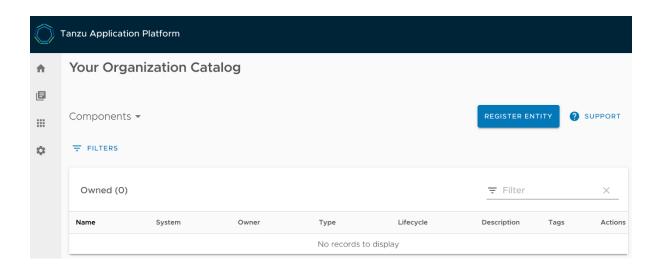
Evolution of a Multi-Cloud Container Platform

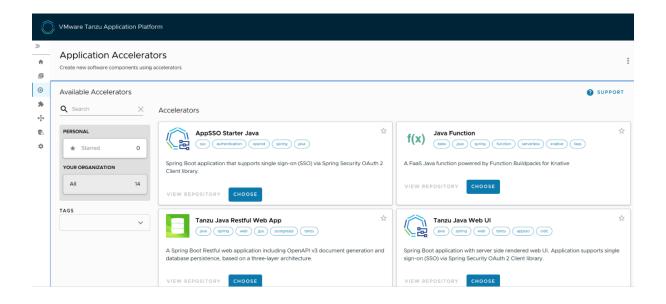


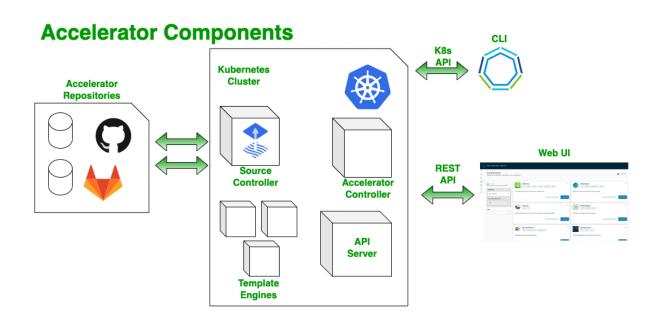
Chapter 2: Developing Cloud-Native Applications

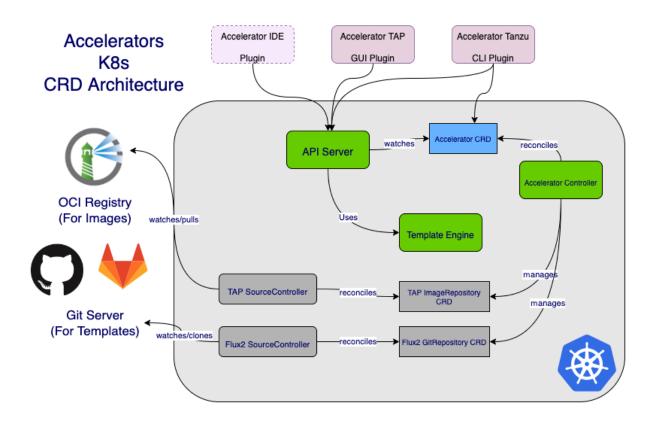


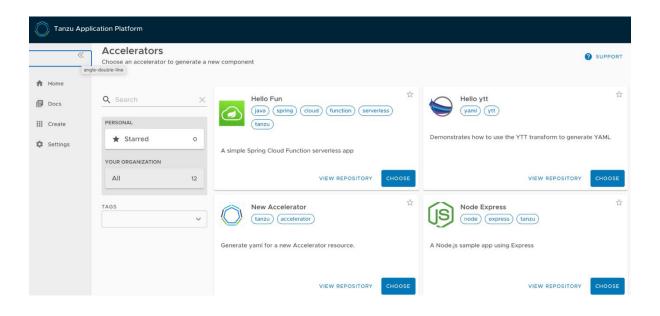


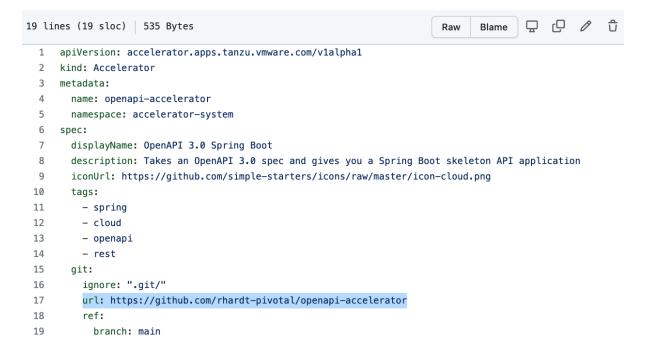


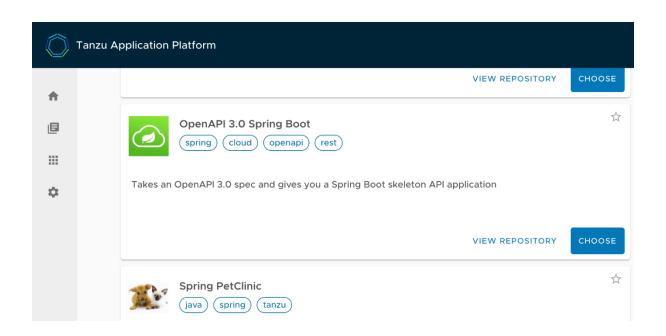




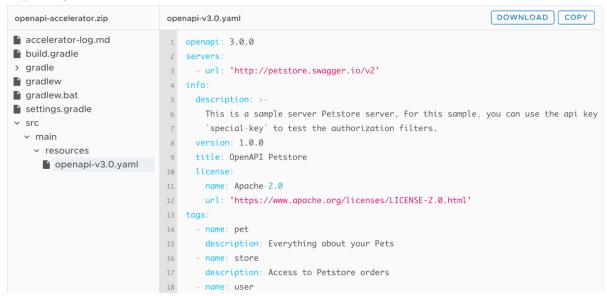




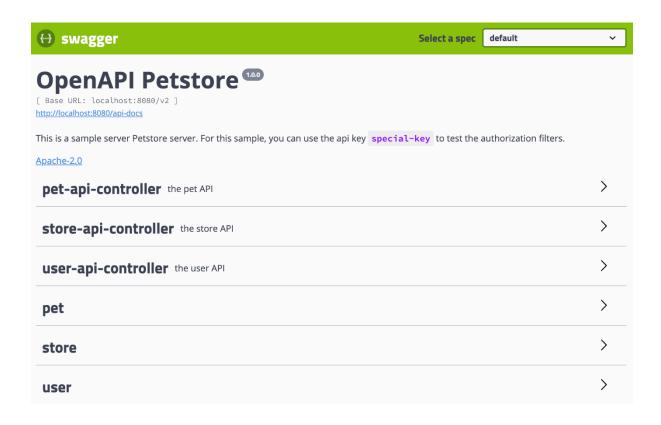




Explore Project



CLOSE



```
38 lines (32 sloc) 869 Bytes

1 plugins {
2         id 'org.springframework.boot' version '2.5.6'
3         id 'io.spring.dependency-management' version '1.0.11.RELEASE'
4         id "org.openapi.generator" version "5.2.1"
5         id 'java'
6 }
7
```





Project Maven Project Java Kotlin Gradle Project Groovy Spring Boot 2.7.0 (SNAPSHOT) 2.6.2 2.5.9 (SNAPSHOT) 2.5.8 Project Metadata

Search Gradle plugins

search by tag or keyword



org.openapi.generator

Owner: Maria Schubert

OpenAPI Generator allows generation of API client libraries (SDK generation), server stubs, documentation and configuration automatically given an OpenAPI Spec (v2, v3)

https://openapi-generator.tech/



```
Users > roberthardt > work2 > tanzu > accelerator > openapi-accelerator > 🗬 build.gradle
       plugins {
  2
           id 'org.springframework.boot' version '2.6.2'
           id 'io.spring.dependency-management' version '1.0.11.RELEASE'
  4
           id "org.openapi.generator" version "5.3.1"
           id 'java'
  7
       group = 'com.example'
       version = '0.0.1-SNAPSHOT'
       sourceCompatibility = '11'
 11
 12
       repositories {
 13
           mavenCentral()
 15
       dependencies {
 17
           implementation 'org.springframework.boot:spring-boot-starter-hateoas'
           testImplementation 'org.springframework.boot:spring-boot-starter-test'
 19
       }
 20
 21
       test {
 22
           useJUnitPlatform()
 23
```

What Spring can do



Microservices

Quickly deliver
production-grade features
with independently
evolvable microservices



Reactive

Spring's asynchronous, nonblocking architecture means you can get more from your computing resources.



Cloud

Your code, any cloud—we've got you covered. Connect and scale your services, whatever your platform.



Web apps

Frameworks for fast, secure, and responsive web applications connected to any data store.



Serverless

The ultimate flexibility. Scale up on demand and scale to zero when there's no demand.



Event Driven

Integrate with your enterprise. React to business events. Act on you streaming data in realtime.



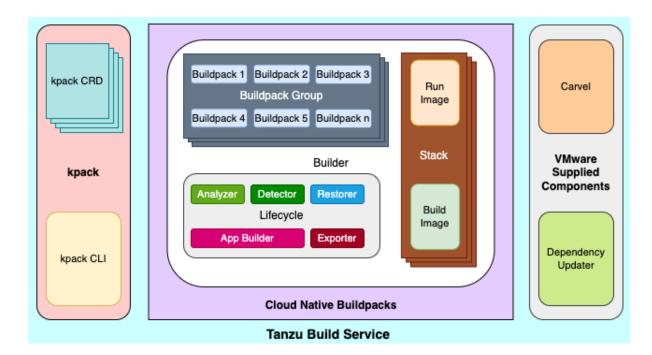
Batch

Automated tasks. Offline processing of data at a time to suit you.

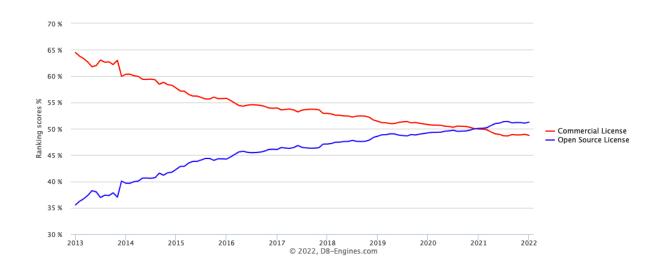
Chapter 3: Building Secure Container Images with Build Service

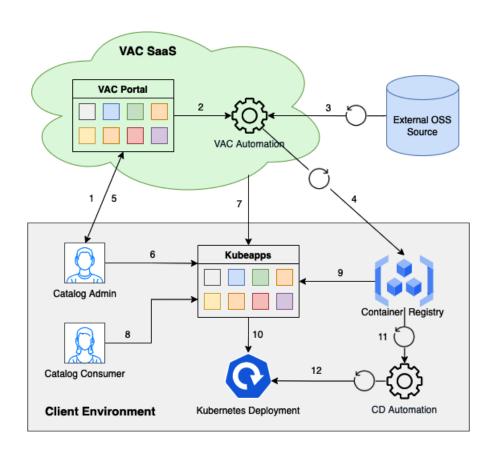
```
● Layers -
      Size
             Command
     73 MB FROM 3f26145e37da197
                        pdate && apt-get install -y --no-install-recommends tzdata curl ca-certificates fontconfig lo
ARCH="$(dpkg --print-architecture)"; case "${ARCH}" in aarch64|arm64) ES
     43 MB apt-get update
   48 MB COPY target/*.jar app.jar # buildkit
• Layers -
     73 MB FROM 3f26145e37da197
     43 MB apt-get update
                                  && apt-get install -y --no-install-recommends tzdata curl ca-certificates fontconfig lo
    128 MB set -eux; ARCH="$(dpkg --print-architecture)";
                                                                          case "${ARCH}" in
       0 B WORKDIR /application
     48 MB COPY application/dependencies/ ./ # buildkit
    246 kB COPY application/spring-boot-loader/ ./ # buildkit
  0 B COPY application/snapshot-dependencies/ ./ # buildkit
    102 kB COPY application/application/ ./ # buildkit
```

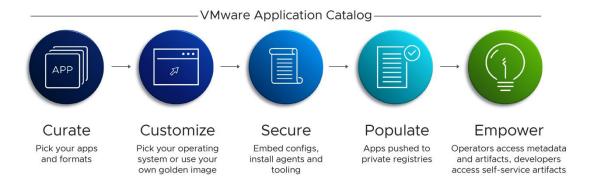


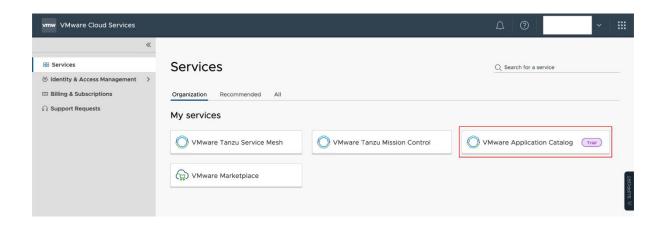


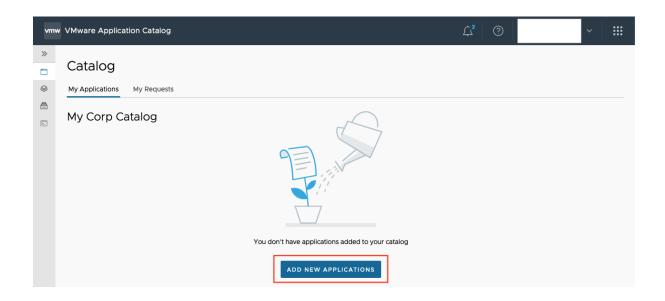
Chapter 4: Provisioning Backing Services for Applications

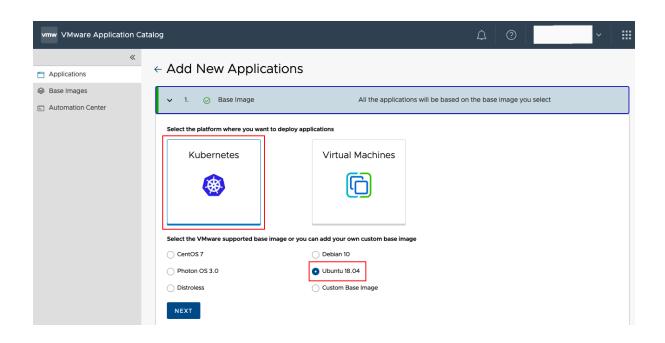


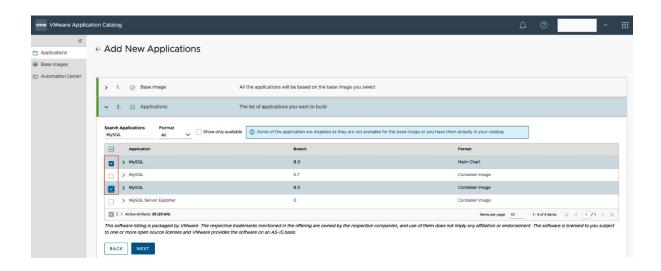








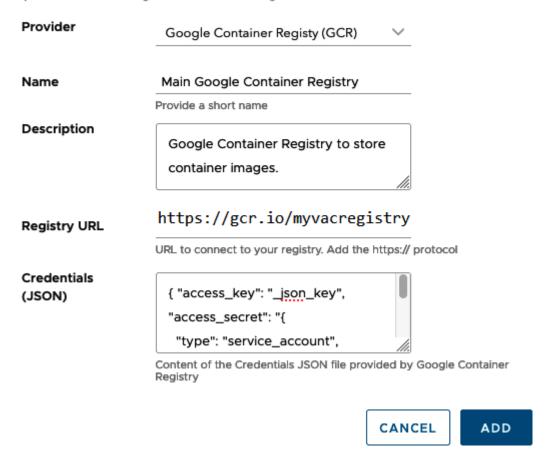


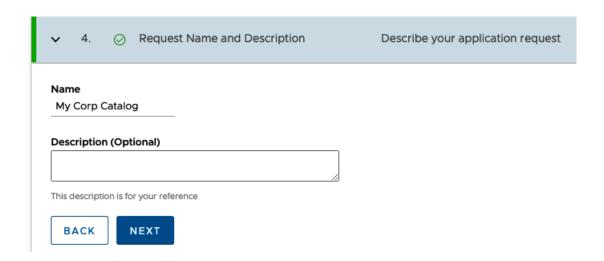


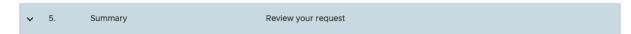


Add Registry

Registries are used to push newly requested applications, application updates and storing custom base images



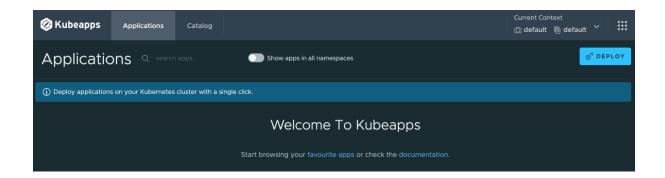


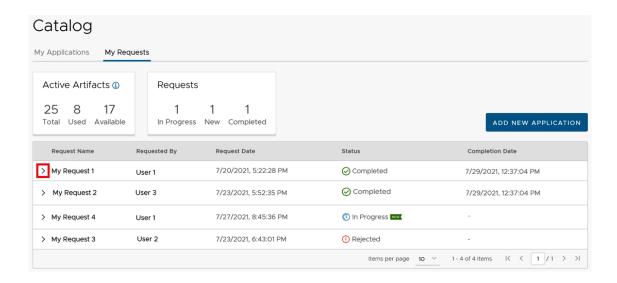


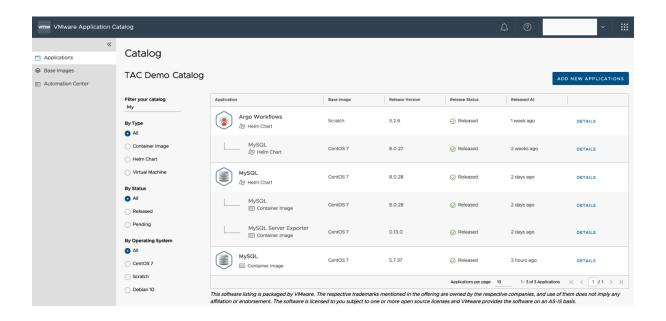
Applications	Base Image	Registry
MySQL (Chart)	Ubuntu 18.04	VMware will reach out to gather more details about your registry
MySQL (Container)		

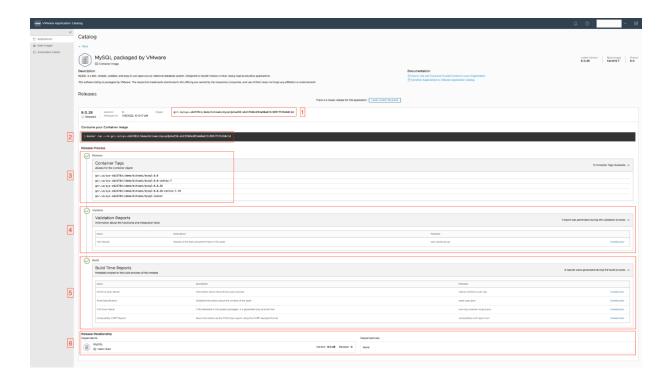








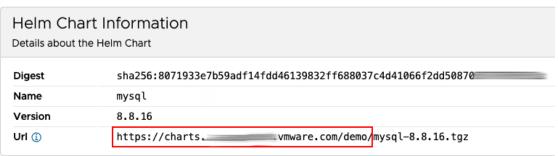


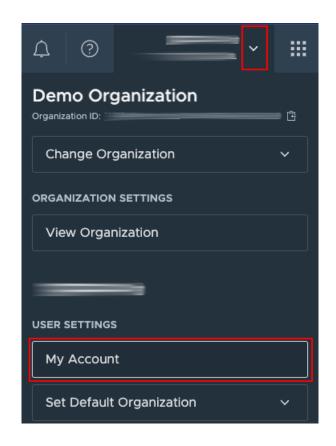


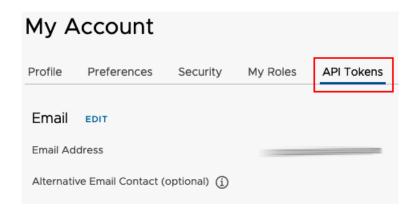
Release Process

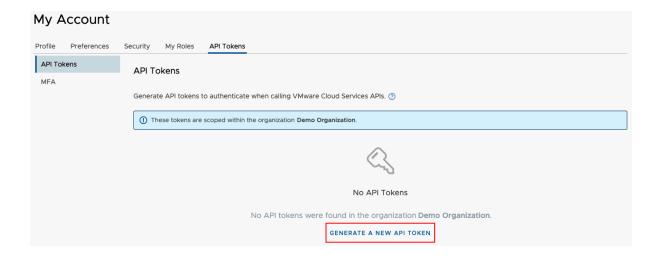


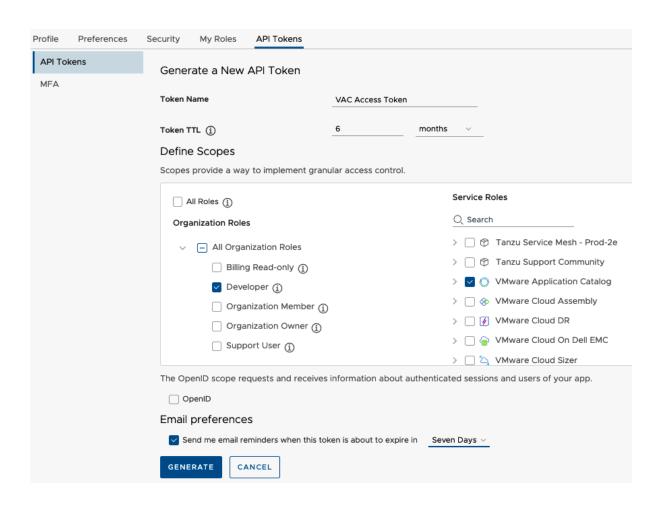
Release











Token Generated

Your token "VAC Access Token" has been generated within the organization Demo Organization. Your token will

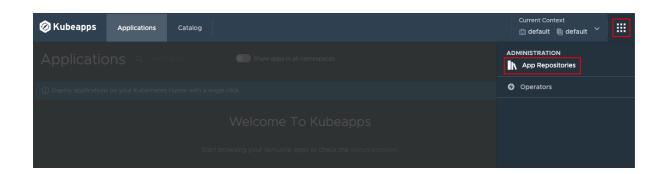
Learn more

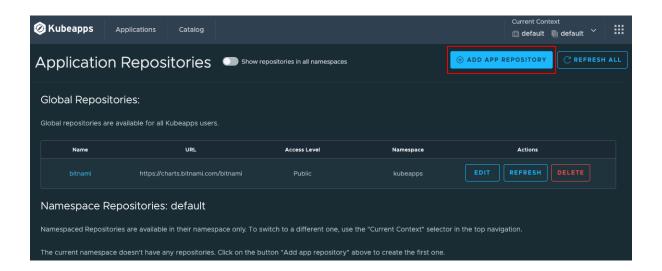
G2fSWus7akCbJ7lbVWisSOlJ 4dY2glBa40k903AnKyfxxUlSdBd0RmE

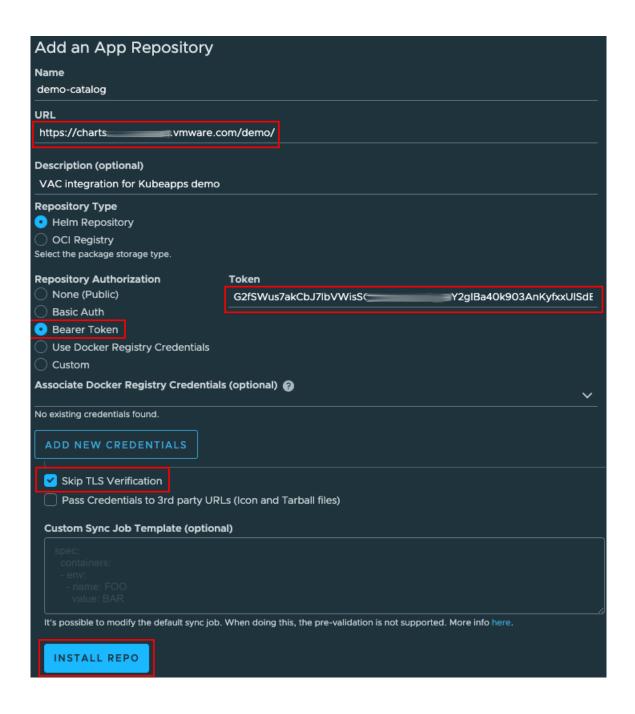
COPY PRINT

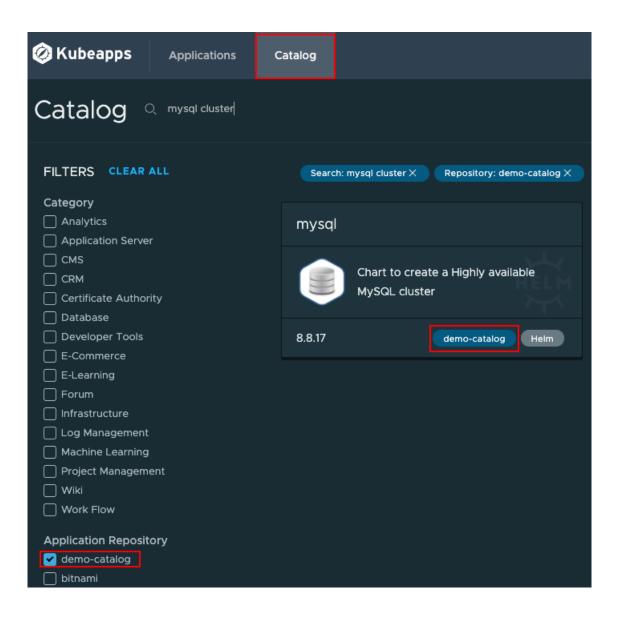
(1) Make sure to store this token in a safe place where you can access it. Once you click "Continue", you will not be able to retrieve this token again.

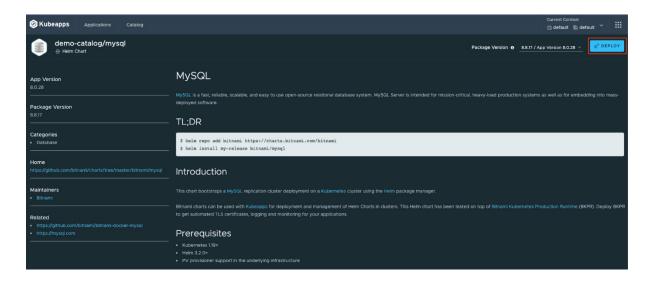
CONTINUE

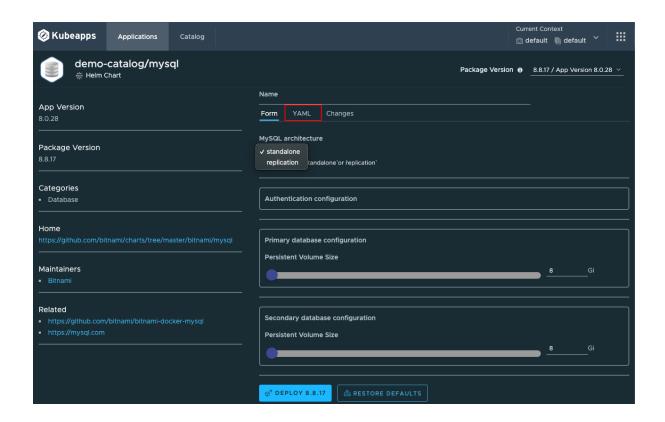


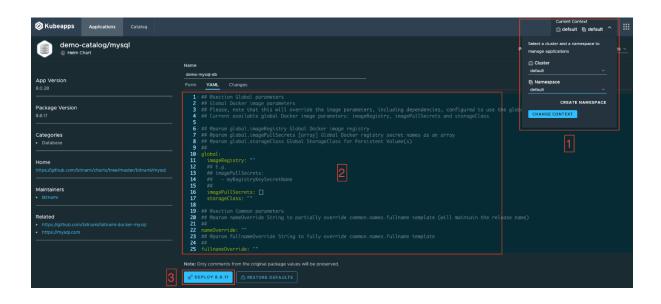


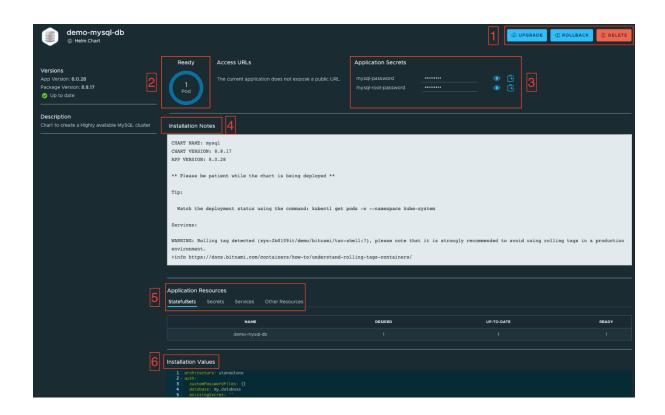


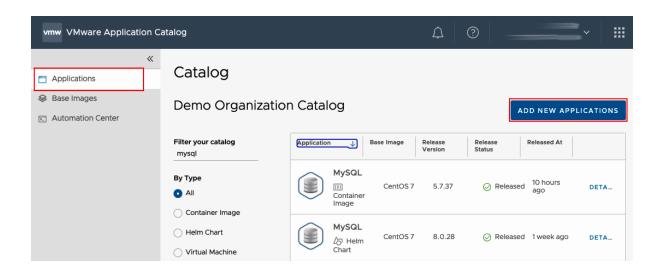


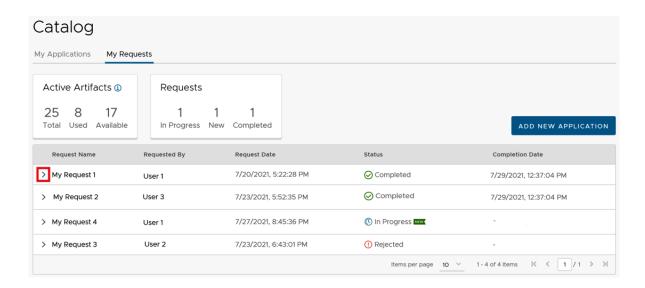




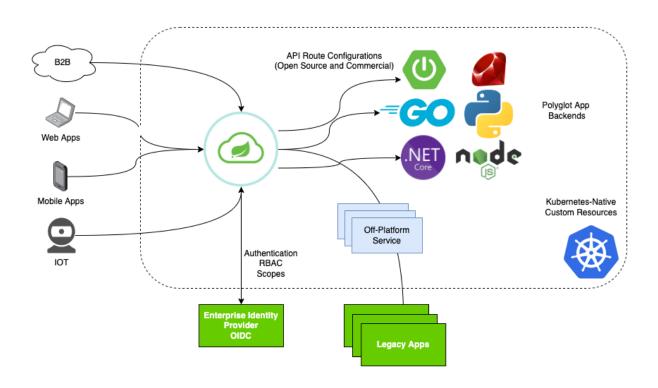


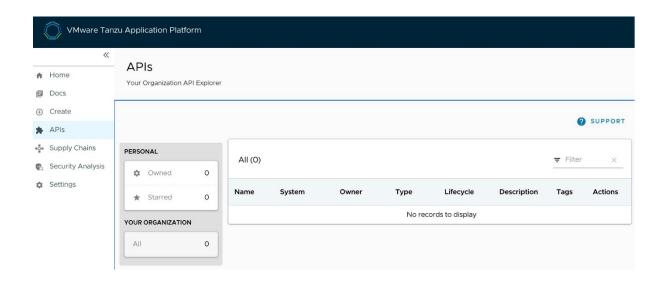






Chapter 5: Defining and Managing Business APIs





LOGIN

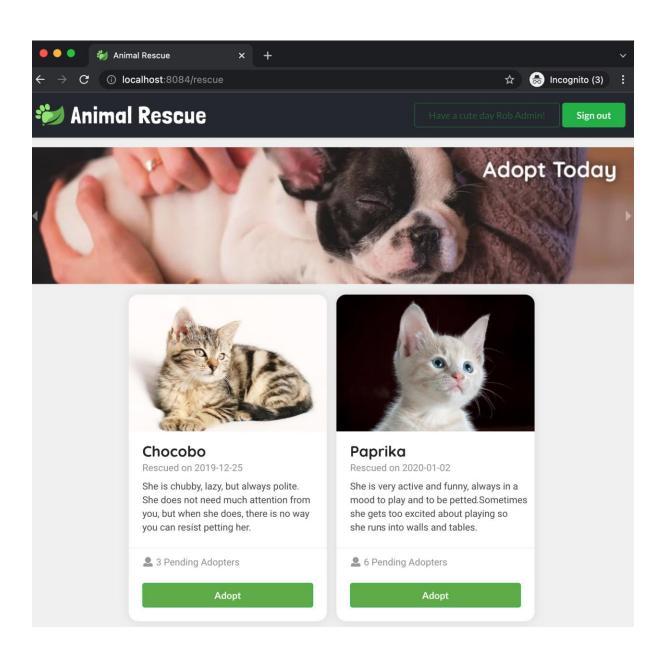
Sign-in redirect URIs ②

Allow wildcard * in login URI redirect.

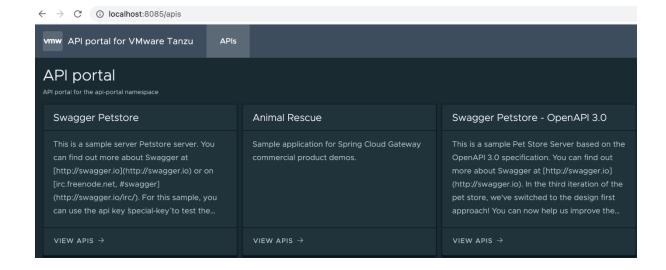
http://localhost:8080/login/oauth2/code/sso

http://localhost:8084/login/oauth2/code/sso

http://localhost:8085/login/oauth2/code/sso



```
- {
       openapi: "3.0.1",
     - info: {
          title: "Animal Rescue",
          description: "Sample application for Spring Cloud Gateway commercial product demos.",
           version: "1.0.0-K8s"
       },
     - externalDocs: {
          url: "https://github.com/spring-cloud-services-samples/animal-rescue/"
       },
     - servers: [
         - {
              url: "http://animal-rescue.my.domain.io"
          }
       ١,
     - paths: {
         - /api/animals: {
              summary: "Route ID: animal-rescue-animal-rescue-backend-routes-0",
             - get: {
                - tags: [
                      "pet adoption"
                  summary: "Retrieve pets for adoption.",
                  description: "Retrieve all of the animals who are up for pet adoption.",
                - responses: {
                    - 200: {
                         description: "Ok",
                        - headers: {
                            - X-Remaining: {
                                 description: "RateLimit: number of requests remaining",
                               - schema: {
                                    type: "integer"
                                 }
                             }
                         }
                    - 429: {
                          description: "Too Many Requests. RateLimit=2,10s",
                        - headers: {
                            - X-Retry-In: {
                                 description: "RateLimit: time in milliseconds until retry",
                               - schema: {
                                     type: "integer"
                             }
0].paths["/api/animals"].get.responses["429"]
```

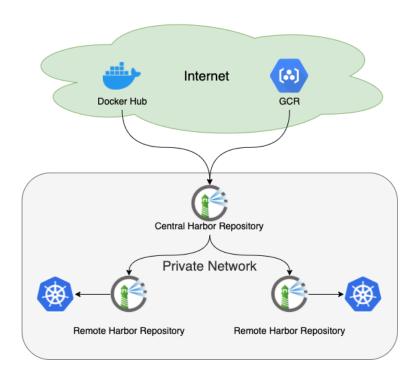


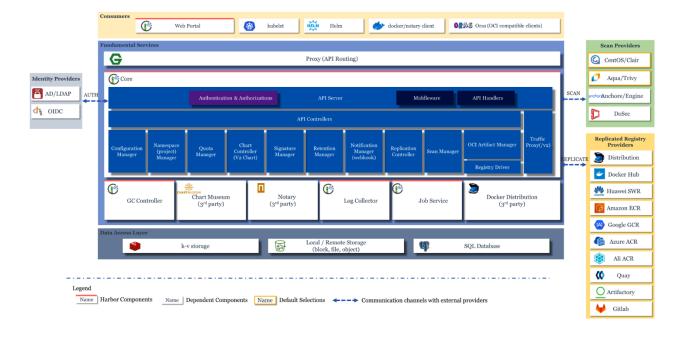
```
Request URL
  http://localhost:8084/api/animals
Server response
Code
              Details
              Response body
                    "id": 1,
                    "name": "Chocobo",
                    "rescueDate": "2019-12-25",
                     "avatarUrl": "https://cdn.pixabay.com/photo/2016/02/10/16/37/cat-1192026_1280.jpg",
                     "description": "She is chubby, lazy, but always polite. She does not need much
                attention from you, but when she does, there is no way you can resist petting her.",
                     "adoptionRequests": [
                         "id": 2,
                         "adopterName": "Gareth",
                         "email": "gareth@email.com",
                         "notes": "Blah blah",
                         "animal": 1
                         "adopterName": "Bella",
                         "email": "bella@email.com",
```

```
- "pet adoption"
title: "Retrieve pets for adoption."
description: "ROB EDIT - Retrieve all of the anmals who are up for pet
- predicates:
    - Path=/api/animals/{animalId}/adoption-requests
    - Method=POST
ssoEnabled: true
tokenRelay: true
```

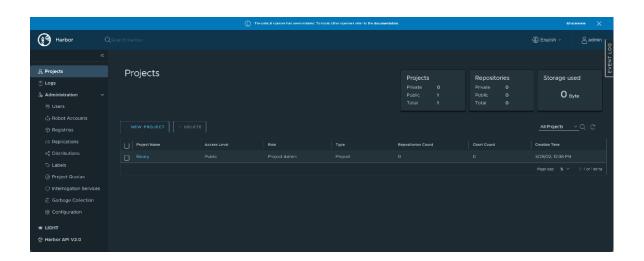
pet adoption GET /api/animals Retrieve pets for adoption. ROB EDIT - Retrieve all of the anmals who are up for pet adoption. Parameters

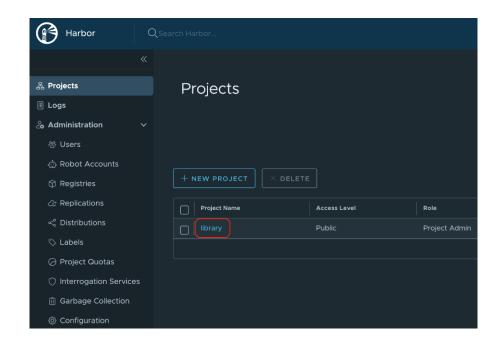
Chapter 6: Managing Container Images with Harbor

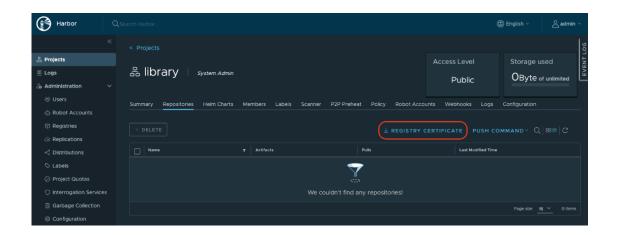


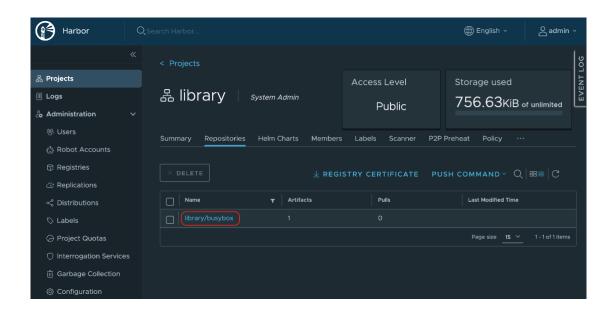


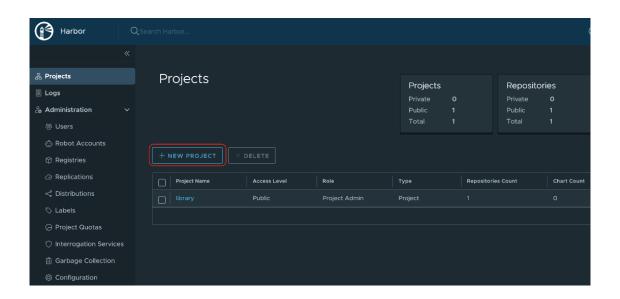


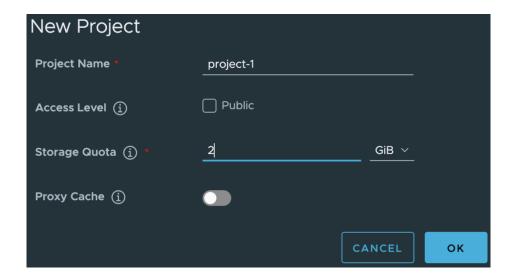


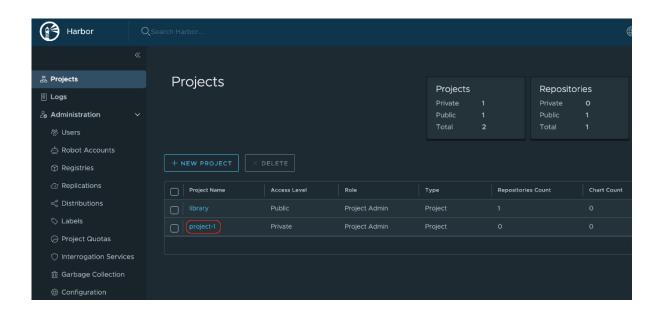


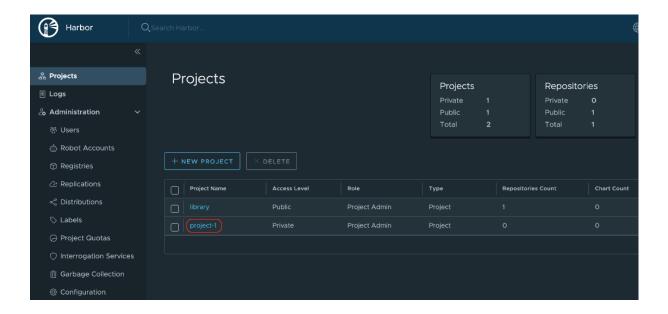


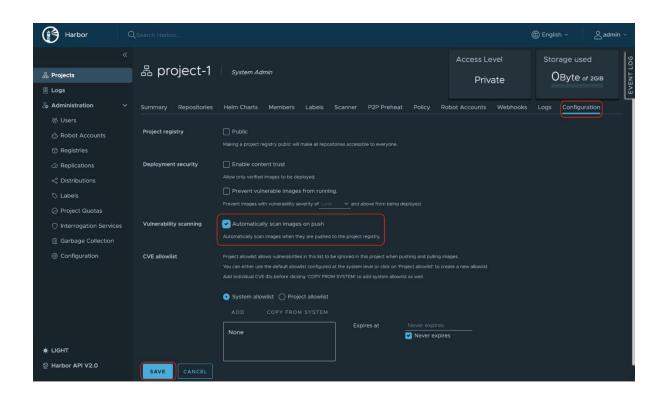


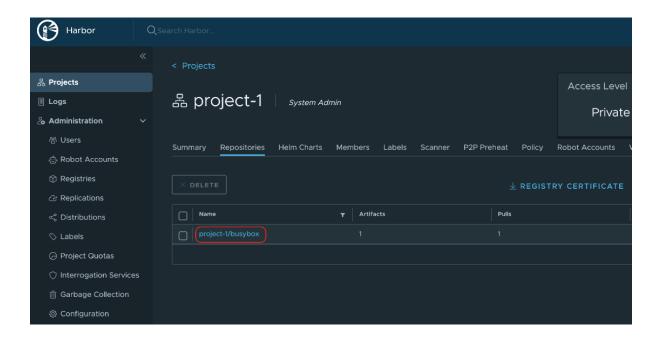


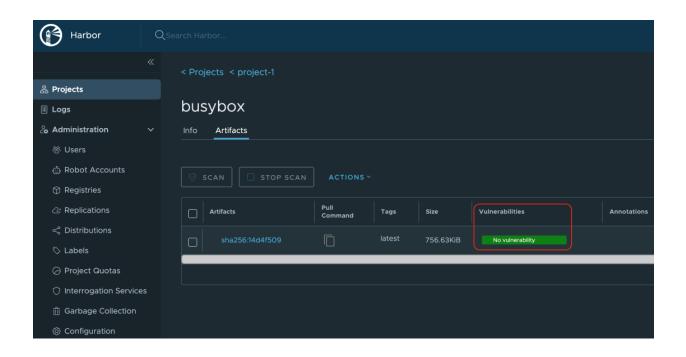


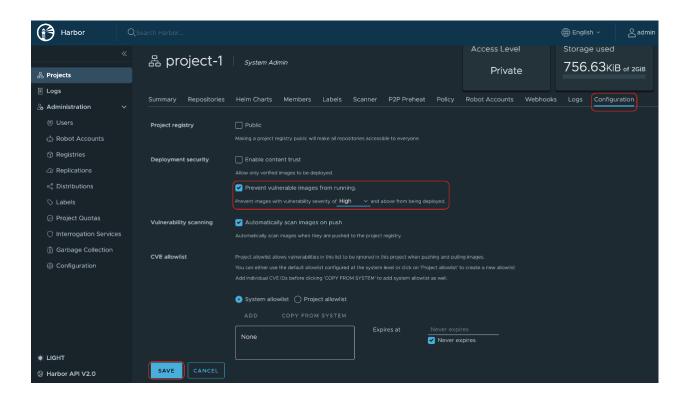


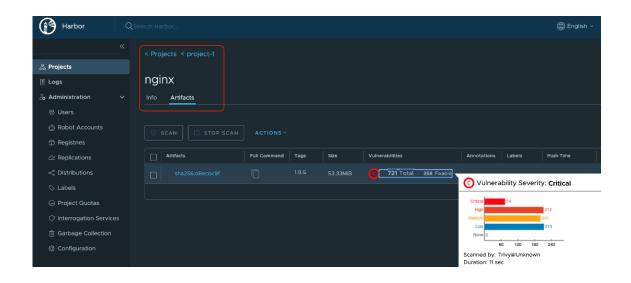


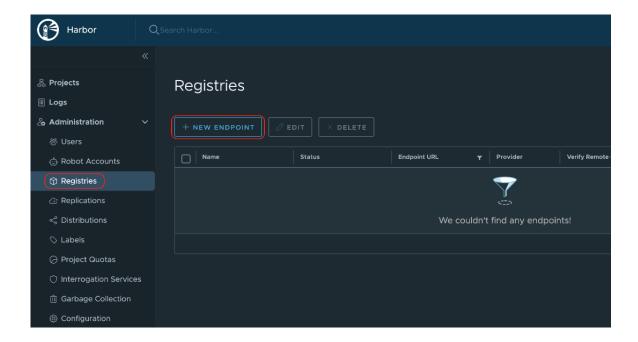


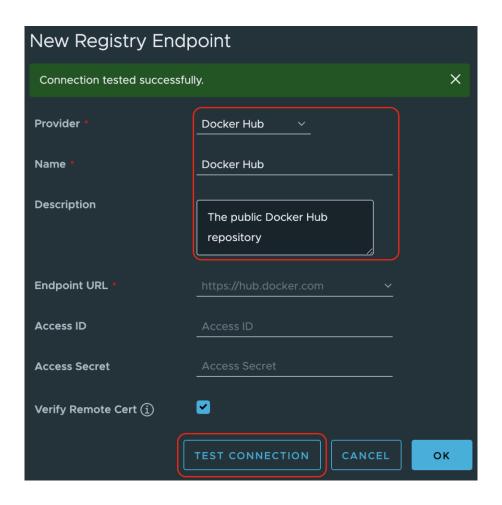


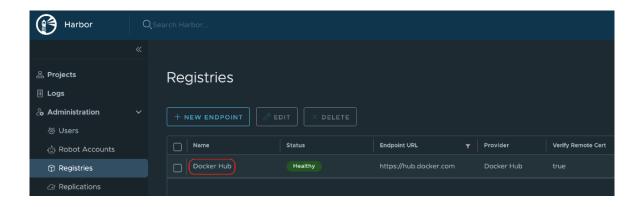


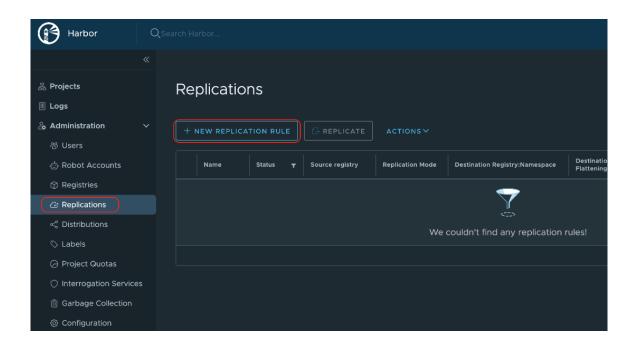


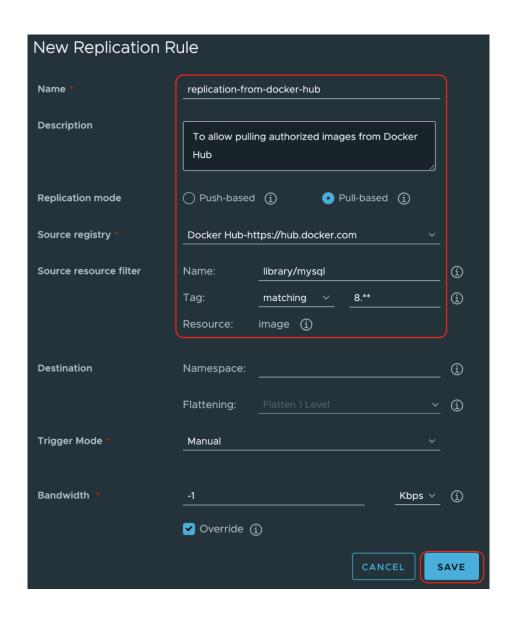


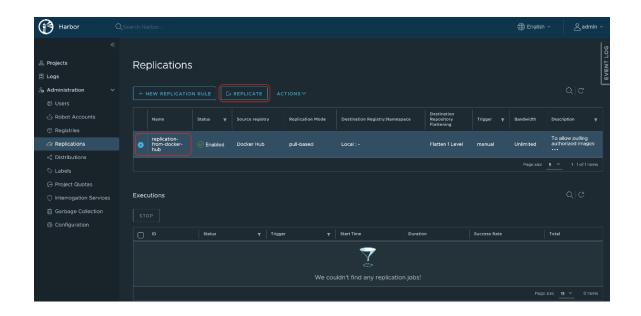




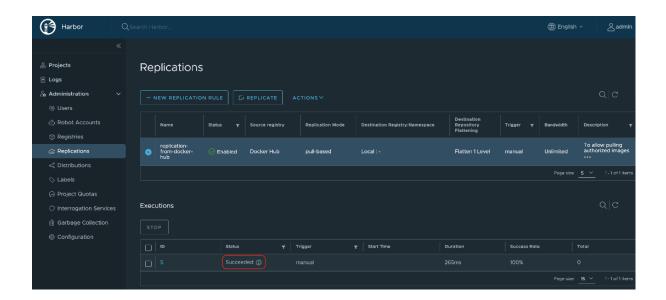


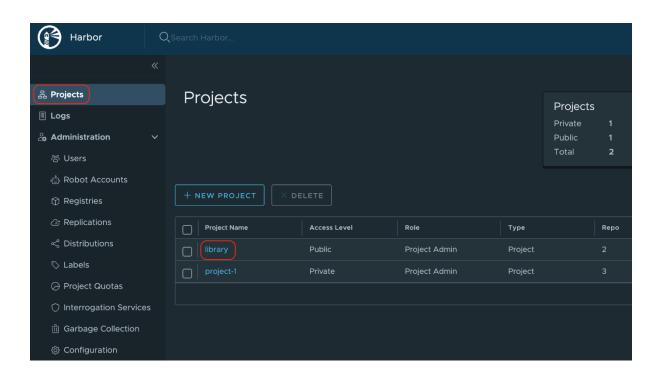


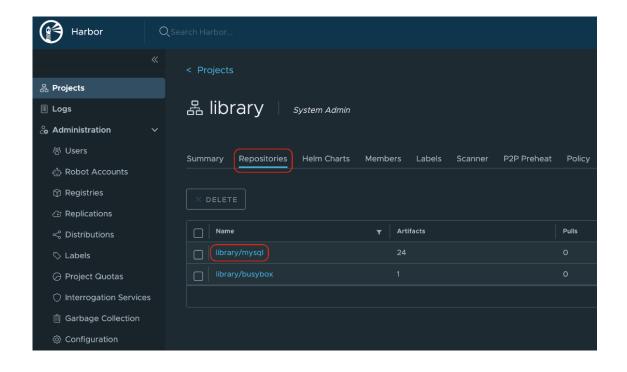


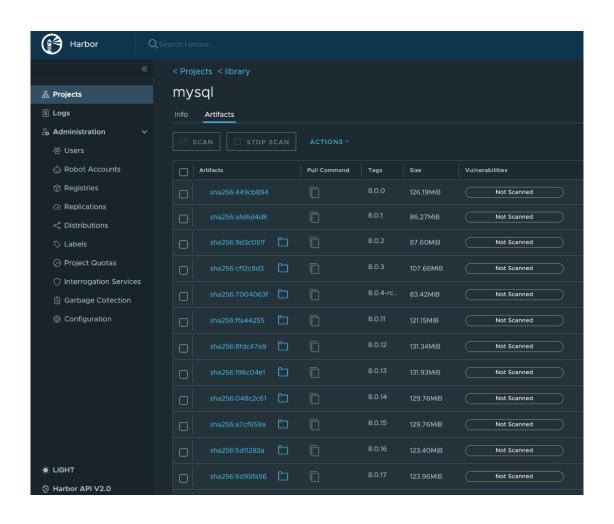


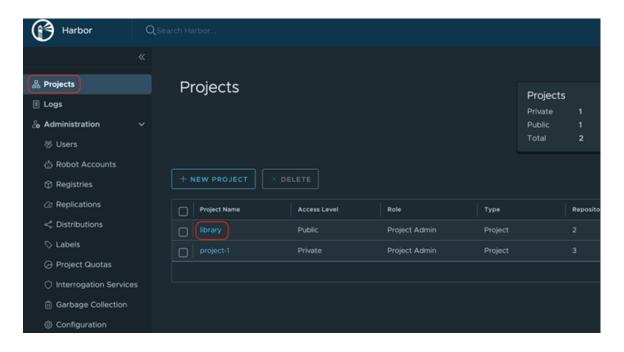


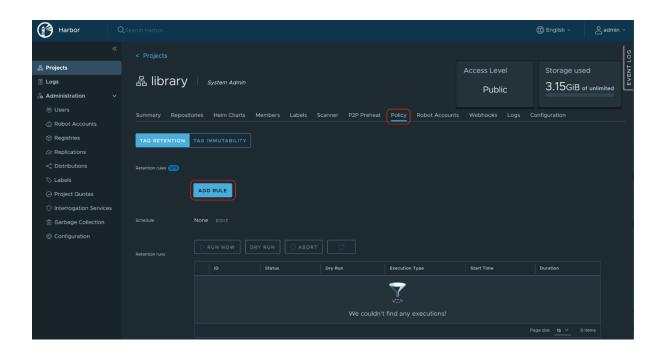




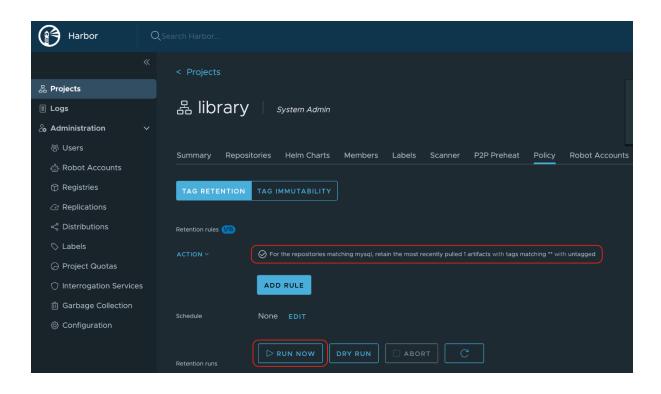


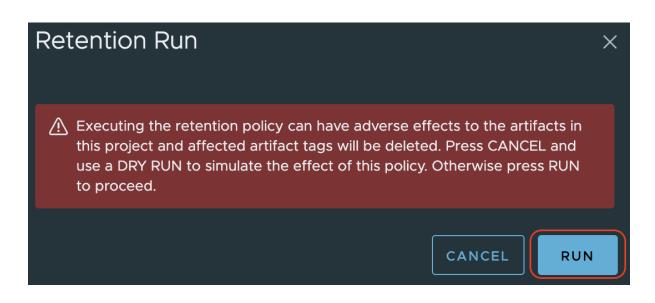


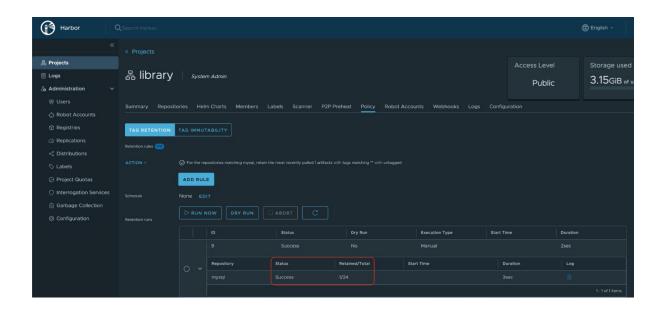


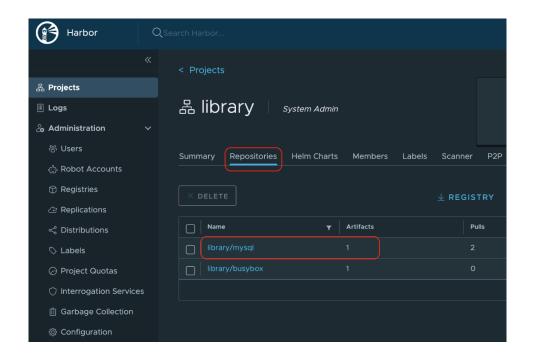


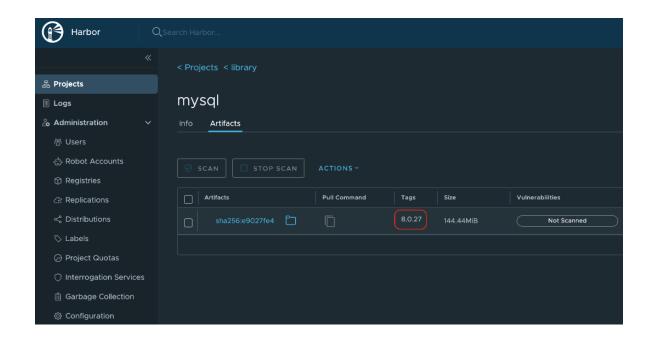












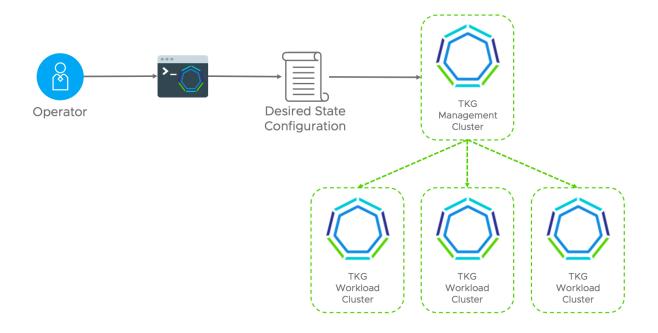
Chapter 7: Orchestrating Containers across Clouds with Tanzu Kubernetes Grid

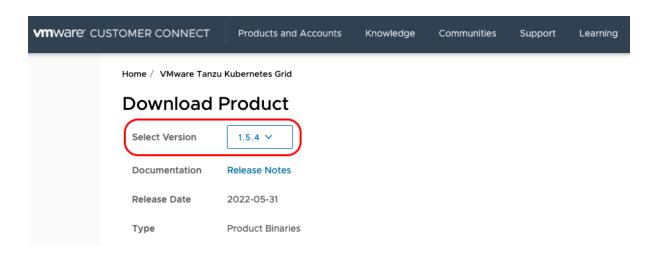












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Kubectl 1.22.9 for VMware Tanzu Kubernetes Grid 1.5.4

Kubectl cluster cli v1.22.9 for Linux

File size: 12.9 MB File type: gz

Read More

Read More

Kubectl cluster cli v1.22.9 for Mac

File size: 14.13 MB File type: gz

Kubecti cluster cli v1.22.9 for Windows

File size: 13.13 MB File type: gz

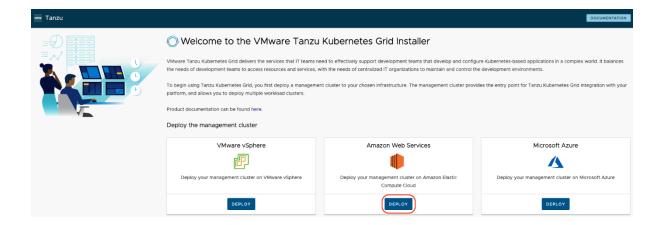
Read More

DOWNLOAD NOW

DOWNLOAD NOW

DOWNLOAD NOW

~	» tanzu plugin list					
	NAME	DESCRIPTION	SCOPE	DISCOVERY	VERSION	STATUS
	cluster	Kubernetes cluster operations	Context	default-tkg-aws-mgmt-cluster	v0.11.6	installed
	kubernetes-release	Kubernetes release operations	Context	default-tkg-aws-mgmt-cluster	v0.11.6	installed
	login	Login to the platform	Standalone	default	v0.11.6	installed
	management-cluster	Kubernetes management-cluster operations	Standalone	default	v0.11.6	installed
	package	Tanzu package management	Standalone	default	v0.11.6	installed
	pinniped-auth	Pinniped authentication operations (usually not directly invoked)	Standalone	default	v0.11.6	installed
	secret	Tanzu secret management	Standalone	default	v0.11.6	installed



IaaS Provider Validate the AWS provider credentials for Tanzu Kubernetes Grid

AWS CREDENTIAL TYPE (1)

Oredential Profile (recommended)

One-Time Credentials

Select an already existing AWS credential profile. If you select a profile, the access keys and session token information configured for your profile are temporarily passed to the installer without displaying actual values in the UI.

Credential profiles can be configured using the AWS CLI.

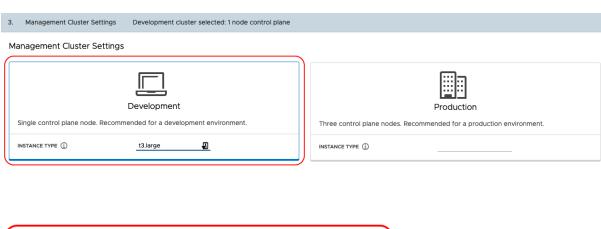


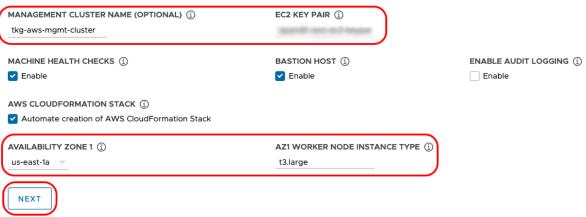
2. VPC for AWS

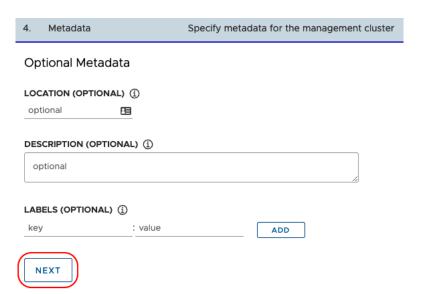
VPC for AWS

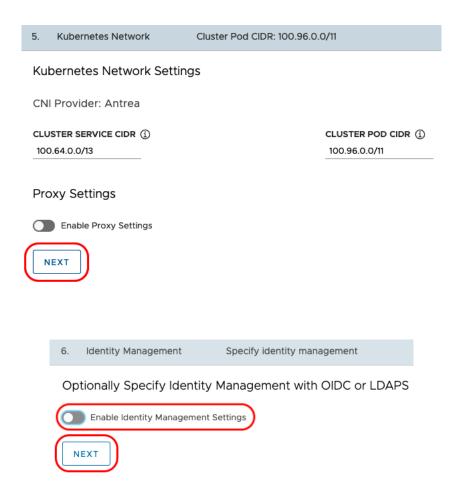
• Create new VPC on AWS
Select an existing VPC

VPC CIDR ①
10.0.0.0/16





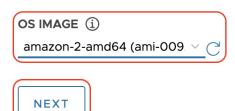




7. OS Image

OS Image: amazon-2-amd64 (ami-0092b98bc500b4c18)

OS Image with Kubernetes v1.22.9+vmware.1-tkg.1



8. CEIP Agreement

Join the CEIP Program for TKG

VMware's Customer Experience Improvement Program ("CEIP") provides VMware with information that enables VMware to improve its products and services and fix problems. By choosing to participate in CEIP, you agree that VMware may collect technical information about your use of VMware products and services on a regular basis. This information does not personally identify you.

For more details about the Program, please see http://www.vmware.com/trustvmware/ceip.html

✓ Participate in the Customer Experience Improvement Program

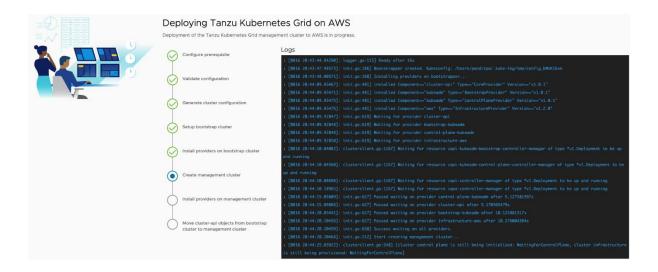
NEXT

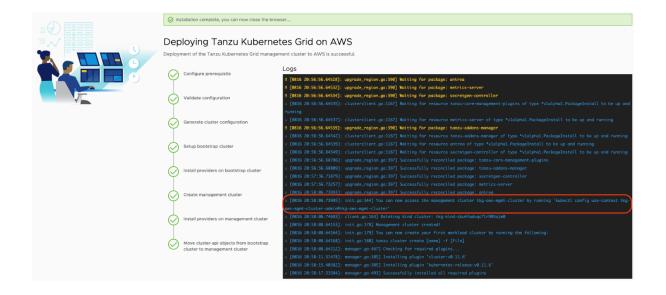
← **|** Deploy Management Cluster on Amazon Web Services

>	\odot	laaS Provider	Validate the AWS provider credentials for Tanzu Kubernetes Grid
>	\odot	VPC for AWS	Specify VPC settings for AWS
>	\odot	Management Cluster Settings	Development cluster selected: 1 node control plane
>	\odot	Metadata	Specify metadata for the management cluster
>	\odot	Kubernetes Network	Cluster Pod CIDR: 100.96.0.0/11
>	\odot	Identity Management	Specify identity management
>	\odot	OS Image	OS Image: amazon-2-amd64 (ami-0092b98bc500b4c18)
>	\odot	CEIP Agreement	Join the CEIP Program for TKG

REVIEW CONFIGURATION

	OS Image					
OS Image	OS Image: amazon-2-amd64 (ami-0092b98bc500b4c18)					
CEIP OPT-IN	yes					
CLI Command Equivalent	CLI Command Equivalent					
tanzu management-cluster per /Users/panditpa/.config/tanz	missions aws set && tanzu management-cluster create tkg-aws-mgmt-clusterfile u/tkg/clusterconfigs/0u63dgsrzz.yaml -v 6	全 COPY CLI COMMAND				
DEPLOY MANAGEMENT CLUST	EDIT CONFIGURATION	EXPORT CONFIGURATION				





~ » tanzu mc get

NAME NAMESPACE STATUS CONTROLPLANE WORKERS KUBERNETES ROLES PLAN tkg-aws-mgmt-cluster tkg-system running 1/1 1/1 1/1 1/22.9+vmware.1 management dev

Details:

NAME	READY	SEVERITY	REASON	SINCE	MESSAGE	
/tkg-aws-mgmt-cluster	True			45m		
-ClusterInfrastructure - AWSCluster/tkg-aws-mgmt-cluster	True			46m		
-ControlPlane - KubeadmControlPlane/tkg-aws-mgmt-cluster-control-plane	True			45m		
└─Machine/tkg-aws-mgmt-cluster-control-plane-dl44m	True			46m		
-Workers						
└─MachineDeployment/tkg-aws-mgmt-cluster-md-0	True			46m		
Machine/tka-aws-mamt-cluster-md-0-7c8864bbcf-79d2v	True			46m		

Providers:

NAMESPACE	NAME	TYPE	PROVIDERNAME	VERSION	WATCHNAMESPACE
capa-system	infrastructure-aws	InfrastructureProvider	aws	v1.2.0	
capi-kubeadm-bootstrap-system	bootstrap-kubeadm	BootstrapProvider	kubeadm	v1.0.1	
capi-kubeadm-control-plane-system	control-plane-kubeadm	ControlPlaneProvider	kubeadm	v1.0.1	
capi-system	cluster-api	CoreProvider	cluster-api	v1.0.1	

~ » tanzu cluster list

NAME NAMESPACE STATUS CONTROLPLANE WORKERS KUBERNETES PLAN tkg-aws-workload-cluster default running 1/1 1/1 1/1 1/1 KUBERNETES ROLES PLAN V1.21.11+vmware.1

~ » kubectl get nodes

NAME STATUS ROLES AGE VERSION ip-10-0-17-250.ec2.internal Ready control-plane, master 73m v1.21.11+vmware.1 role value v1.21.11+vmware.1 role v1.21.11+vmware.1

~ » tanzu cluster list

NAME NAMESPACE STATUS CONTROLPLANE WORKERS KUBERNETES ROLES PLAN tkg-aws-workload-cluster default running 1/1 1/1 1/1 1/21.11+vmware.1 <none> dev

~ » tanzu cluster scale tkg-aws-workload-cluster -w 3

Successfully updated worker node machine deployment replica count for cluster tkg-aws-workload-cluster Workload cluster 'tkg-aws-workload-cluster' is being scaled

~ » tanzu cluster list

CONTROLPLANE WORKERS **KUBERNETES** NAMESPACE STATUS **ROLES** PLAN NAME tkg-aws-workload-cluster default 3/3 v1.21.11+vmware.1 dev runnina <none>

~ » tanzu cluster list

NAME NAMESPACE STATUS CONTROLPLANE WORKERS **KUBERNETES ROLES** PLAN tkg-aws-workload-cluster default running 1/1 3/3 v1.21.11+vmware.1 <none> dev

~ » tanzu kubernetes-release get

NAME	VERSION	COMPATIBLE	ACTIVE	UPDATES AVAILABLE
v1.20.15vmware.1-tkg.2	v1.20.15+vmware.1-tkg.2	True	True	True
v1.21.11vmware.1-tkg.3	v1.21.11+vmware.1-tkg.3	True	True	True
v1.22.9vmware.1-tkg.1	v1.22.9+vmware.1-tkg.1	True	True	False

~ » tanzu cluster upgrade tkg-aws-workload-cluster --tkr v1.22.9---vmware.1-tkg.1

Upgrading workload cluster 'tkg-aws-workload-cluster' to kubernetes version 'v1.22.9+vmware.1'. Are you sure? [y/N]: y Validating configuration...

unable to create AWS client. Skipping validations that require an AWS client $updating \ additional \ components: \ 'addons-management/kapp-controller' \ \dots$

Verifying kubernetes version...

Retrieving configuration for upgrade cluster...

Create InfrastructureTemplate for upgrade...

Upgrading control plane nodes...

Patching KubeadmControlPlane with the kubernetes version v1.22.9+vmware.1...

Updating the KCP object with k8s version v1.22.9+vmware.1

Waiting for kubernetes version to be updated for control plane nodes

Upgrading worker nodes...

Patching MachineDeployment with the kubernetes version v1.22.9+vmware.1...

Waiting for kubernetes version to be updated for worker nodes...

unable to create AWS client. Skipping validations that require an AWS client

updating additional components: 'metadata/tkg' ...

unable to create AWS client. Skipping validations that require an AWS client updating additional components: 'addons-management/standard-package-repo' ...

Waiting for packages to be up and running... Cluster 'tkg-aws-workload-cluster' successfully upgraded to kubernetes version 'v1.22.9+vmware.1'

Name	▲ Instance ID	Instance state	Instance type ▽
tkg-aws-workload-cluster-control-plane-bwlrz	i-0d096a46a1c57f0ba	⊝ Terminated	t3.large
tkg-aws-workload-cluster-control-plane-v1-22-9-vmware-1-cvrvs2h	i-070d2f53f5d716c81	⊝ Terminated	t3.large
tkg-aws-workload-cluster-control-plane-v1-22-9-vmware-1-cvthzst	i-030b1f7960fa9f5b7	⊗ Running	t3.large
tkg-aws-workload-cluster-md-0-l5zl4	i-03b9d7f74d5e42ea5	⊝ Terminated	t3.large
tkg-aws-workload-cluster-md-0-nrmc8	i-092be694c504019bc	⊝ Terminated	t3.large
tkg-aws-workload-cluster-md-0-s7t8l	i-0655711379df414de	⊝ Terminated	t3.large
tkg-aws-workload-cluster-md-0-v1-22-9-vmware-1-pe5wg-bq45v	i-078d97bac3162ddc3	⊗ Running	t3.large
tkg-aws-workload-cluster-md-0-v1-22-9-vmware-1-pe5wg-d9fcr	i-02f7a631f5234a3f5	⊗ Running	t3.large
tkg-aws-workload-cluster-md-0-v1-22-9-vmware-1-pe5wg-h4jq6	i-0b1eac85b961f6cb3	⊗ Running	t3.large

~ » tanzu cluster list
NAME
NAMESPACE STATUS CONTROLPLANE tkg-aws-workload-cluster default running 1/1 3/3 KUBERNETES v1.22.9+vmware.1
ROLES PLAN
controlplane
ROLES PLAN
controlplane

~ » tanzu cluster delete tkg-aws-workload-cluster Deleting workload cluster 'tkg-aws-workload-cluster'. Are you sure? [y/N]: y Workload cluster 'tkg-aws-workload-cluster' is being deleted

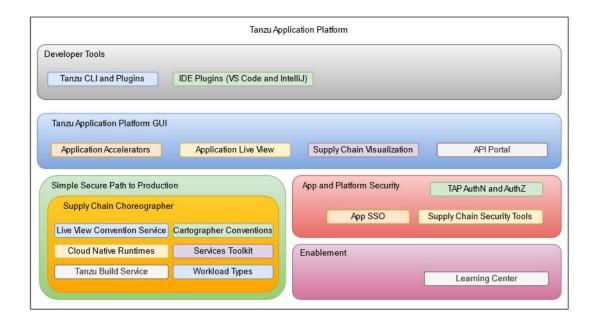
Name 🔺	Instance ID	Instance state	Instance type
tkg-aws-workload-cluster-control-plane-bwlrz	i-0d096a46a1c57f0ba	⊝ Terminated ⊕ Q	t3.large
tkg-aws-workload-cluster-control-plane-v1-22-9-vmware-1-cvrvs2h	i-070d2f53f5d716c81	⊝ Terminated ⊕ Q	t3.large
tkg-aws-workload-cluster-control-plane-v1-22-9-vmware-1-cvthzst	i-030b1f7960fa9f5b7	⊝ Terminated ⊕ Q	t3.large
tkg-aws-workload-cluster-md-0-l5zl4	i-03b9d7f74d5e42ea5	⊝ Terminated ⊕ Q	t3.large
tkg-aws-workload-cluster-md-0-nrmc8	i-092be694c504019bc	⊝ Terminated ⊕ Q	t3.large
tkg-aws-workload-cluster-md-0-s7t8l	i-0655711379df414de	⊝ Terminated ⊕ Q	t3.large
tkg-aws-workload-cluster-md-0-v1-22-9-vmware-1-pe5wg-bq45v	i-078d97bac3162ddc3	⊝ Terminated ⊕ Q	t3.large
tkg-aws-workload-cluster-md-0-v1-22-9-vmware-1-pe5wg-d9fcr	i-02f7a631f5234a3f5	⊝ Terminated ⊕ Q	t3.large
tkg-aws-workload-cluster-md-0-v1-22-9-vmware-1-pe5wg-h4jq6	i-0b1eac85b961f6cb3	⊝ Terminated ⊕ Q	t3.large

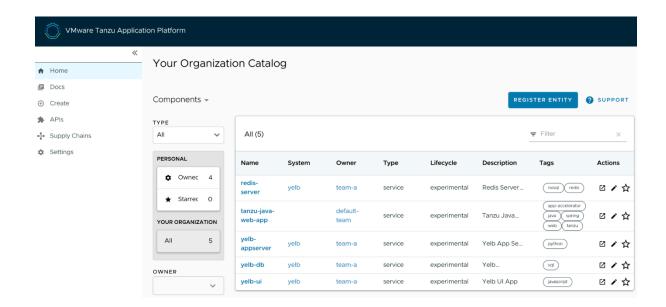
```
Installing providers to cleanup cluster...
Fetching providers
Installing cert-manager Version="v1.5.3"
Waiting for cert-manager to be available...
Installing Provider="cluster-api" Version="v1.0.1" TargetNamespace="capi-system"
Installing Provider="bootstrap-kubeadm" Version="v1.0.1" TargetNamespace="capi-kubeadm-bootstrap-system"
Installing Provider="control-plane-kubeadm" Version="v1.0.1" TargetNamespace="capi-kubeadm-control-plane-system"
Installing Provider="infrastructure-aws" Version="v1.2.0" TargetNamespace="capa-system"
installed Component=="cluster-api" Type=="CoreProvider" Version=="v1.0.1"
installed Component=="kubeadm" Type=="BootstrapProvider" Version=="v1.0.1" installed Component=="kubeadm" Type=="ControlPlaneProvider" Version=="v1.0.1"
installed Component=="aws" Type=="InfrastructureProvider" Version=="v1.2.0"
Waiting for provider control-plane-kubeadm
Waiting for provider cluster-api
Waiting for provider bootstrap-kubeadm
Waiting for provider infrastructure-aws
Waiting for resource capi-kubeadm-bootstrap-controller-manager of type *v1.Deployment to be up and running
Waiting for resource capi-kubeadm-control-plane-controller-manager of type *v1.Deployment to be up and running
Waiting for resource capi-controller-manager of type *v1.Deployment to be up and running
Waiting for resource capa-controller-manager of type *v1.Deployment to be up and running
Passed waiting on provider bootstrap-kubeadm after 5.141313736s
Passed waiting on provider cluster-api after 5.179712151s
Passed waiting on provider infrastructure-aws after 5.265423202s
Passed waiting on provider control-plane-kubeadm after 10.14069577s
Success waiting on all providers.
Moving Cluster API objects from management cluster to cleanup cluster...
Performing move...
Discovering Cluster API objects
Moving Cluster API objects Clusters=1
Creating objects in the target cluster
Deleting objects from the source cluster
Waiting for the Cluster API objects to get ready after move...
Waiting for resource tkg-aws-mgmt-cluster of type *v1beta1.Cluster to be up and running
Waiting for resources type *v1beta1.MachineList to be up and running
Deleting management cluster...
Waiting for tkg-aws-mgmt-cluster resource of type *v1beta1.Cluster to be deleted
Management cluster 'tkg-aws-mgmt-cluster' deleted.
Deleting the management cluster context from the kubeconfig file '/Users/panditpa/.kube/config'
warning: this removed your active context, use "kubectl config use-context" to select a different one
Deleting kind cluster: tkg-kind-cbur8ctvqc7r4crv0i20
```

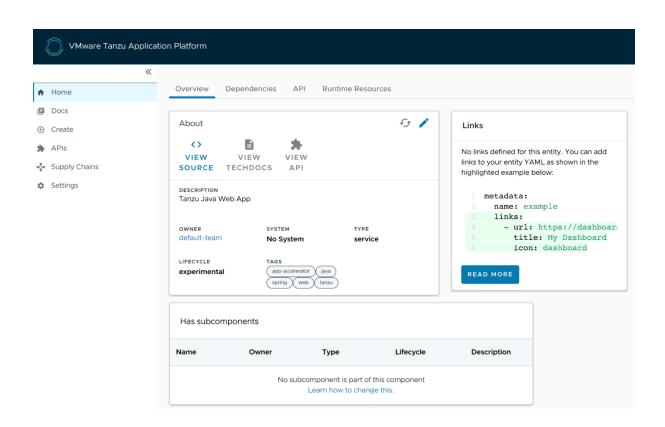
Management cluster deleted!

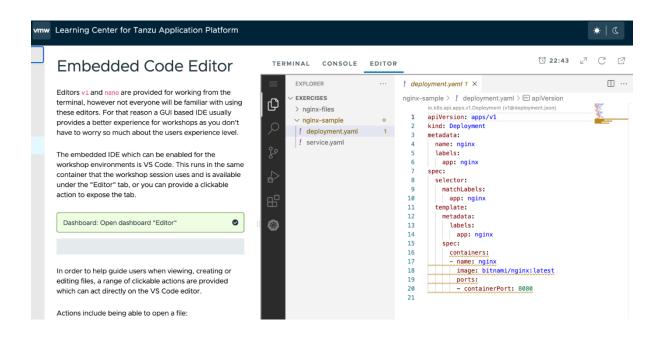
Ready after 16s

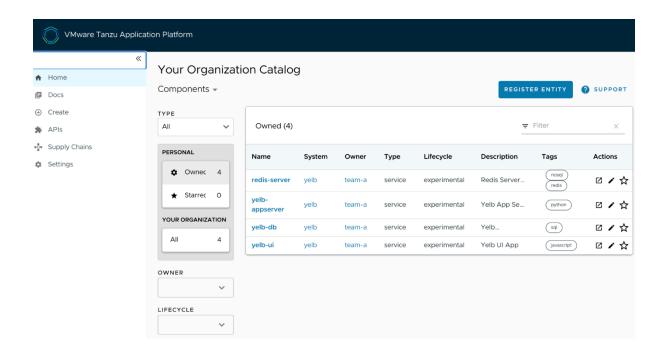
Chapter 8: Enhancing Developer Productivity with Tanzu Application Platform

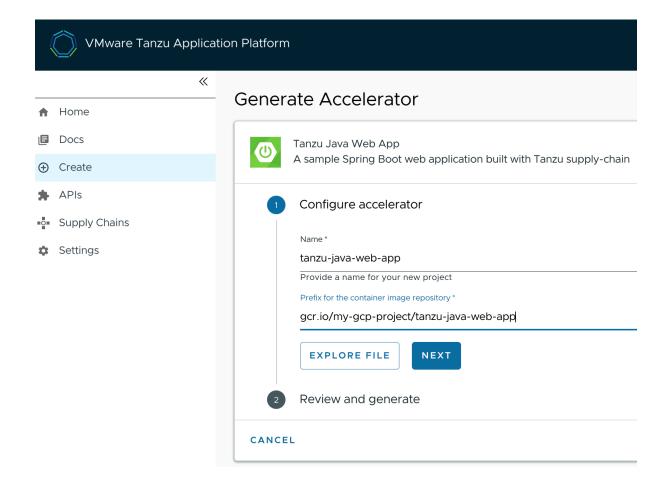


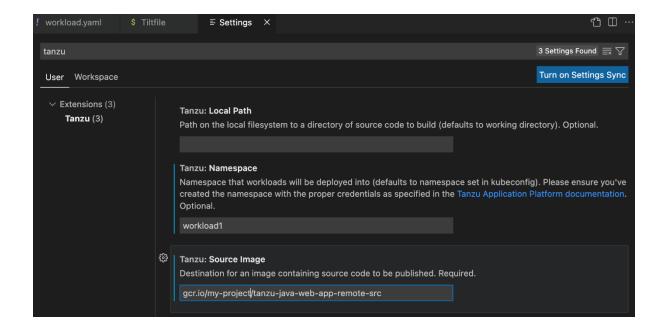


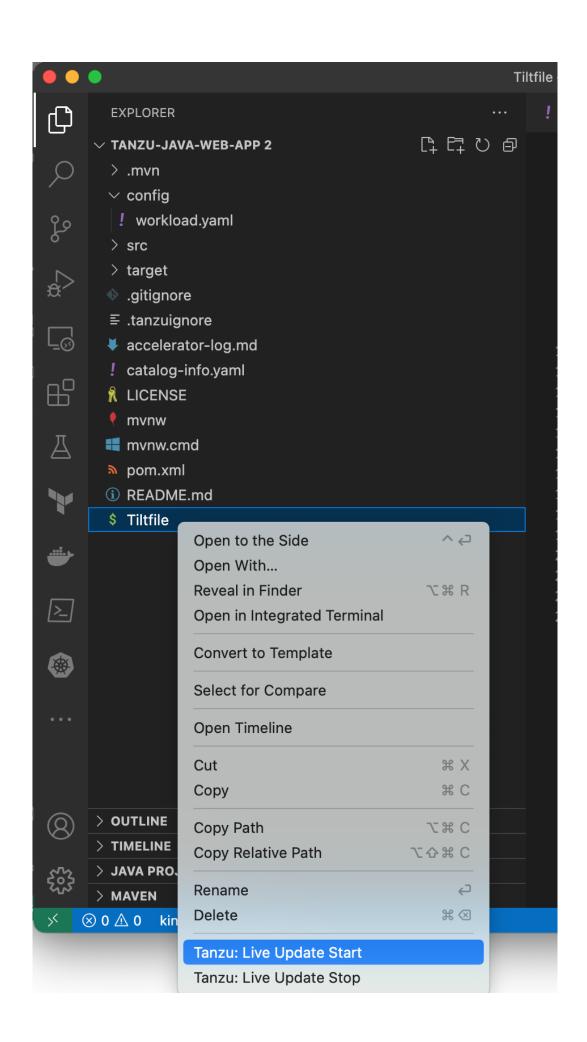








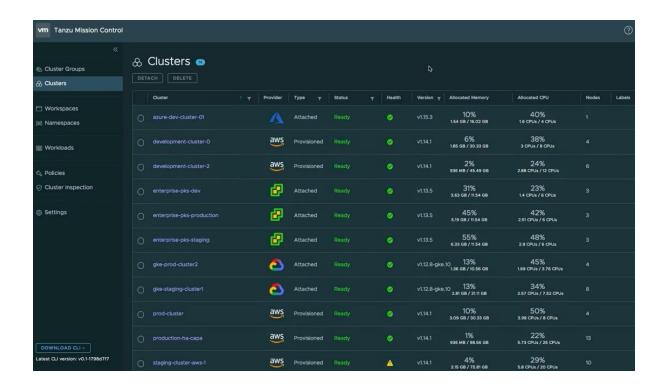


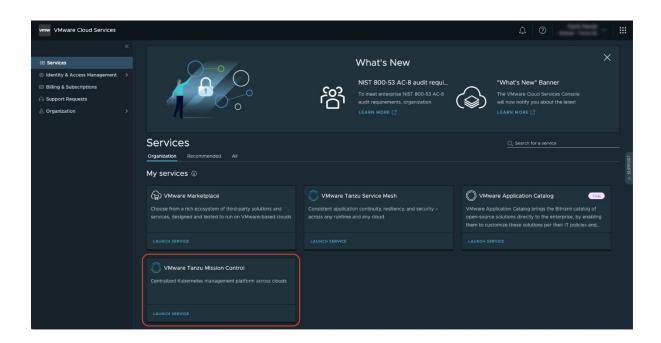


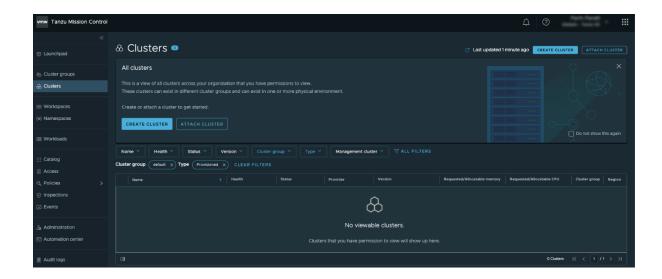
```
[I] (* acmedemo-tkg@tap-install.us-west-2.eksctl.io|default) ~/D/tanzu-java-web-app> kube
                                                       READY
                                                               STATUS
                                                                           RESTARTS
tanzu-java-web-app-00002-deployment-85bbdf95c9-hv78t
                                                       2/2
                                                               Running
tanzu-java-web-app-build-1-build-pod
                                                       0/1
                                                               Completed
                                                                           0
                                                                                       15m
tanzu-java-web-app-build-2-build-pod
                                                       0/1
                                                               Completed
                                                                           0
                                                                                       8m53s
tanzu-java-web-app-config-writer-dqcfl-pod
                                                       0/1
                                                               Completed
                                                                           0
                                                                                       7m29s
tanzu-java-web-app-config-writer-fzhdt-pod
                                                       0/1
                                                               Completed
                                                                           0
                                                                                       14m
[I] (* acmedemo-tkg@tap-install.us-west-2.eksctl.io|default) ~/D/tanzu-java-web-app>
```

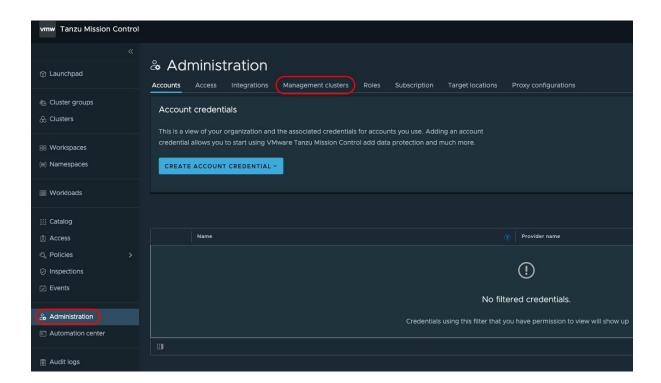
Greetings from Spring Boot + Tanzu!

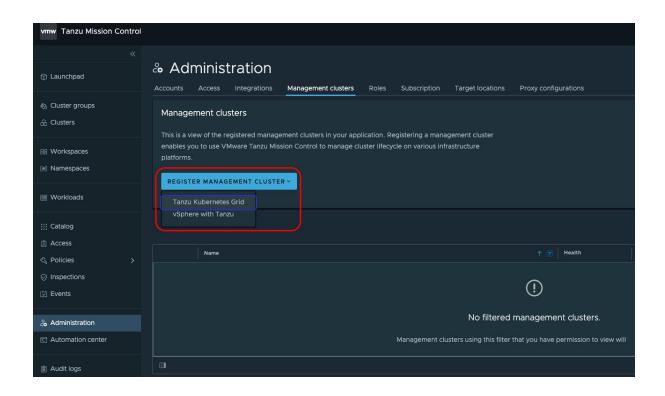
Chapter 9: Managing and Controlling Kubernetes Clusters with Tanzu Mission Control

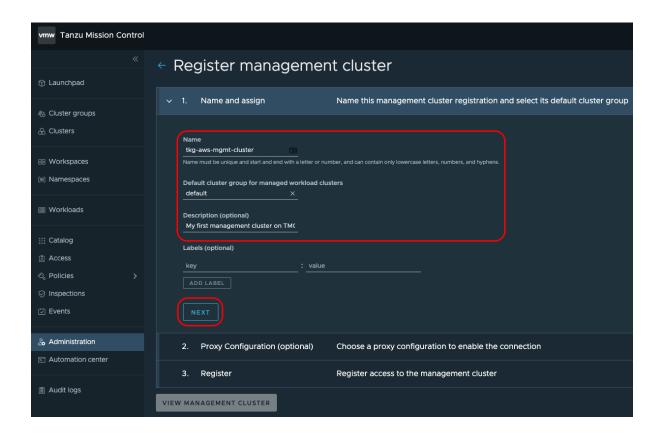


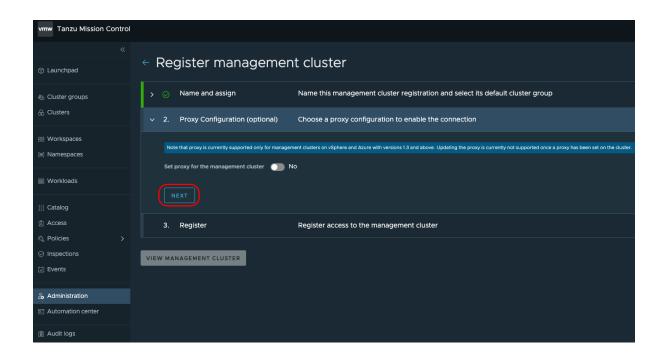


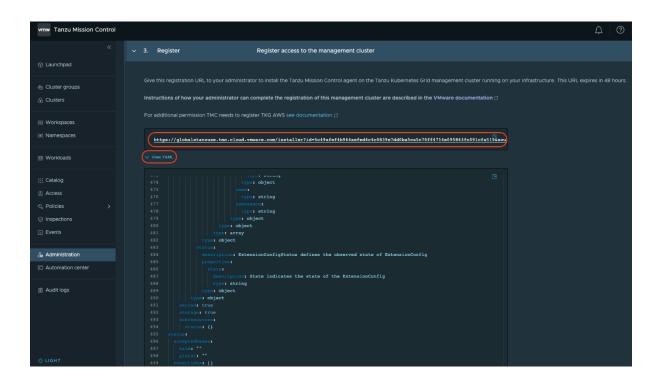


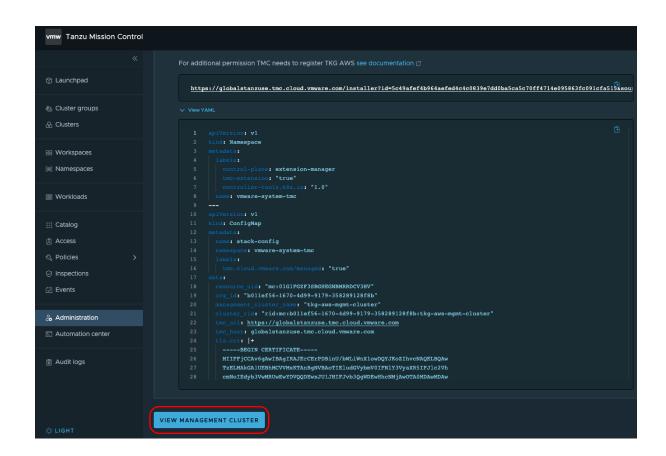


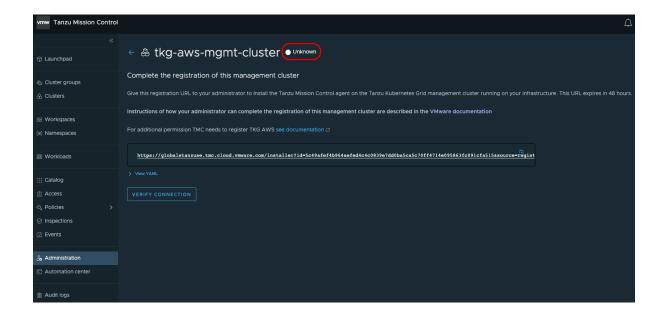


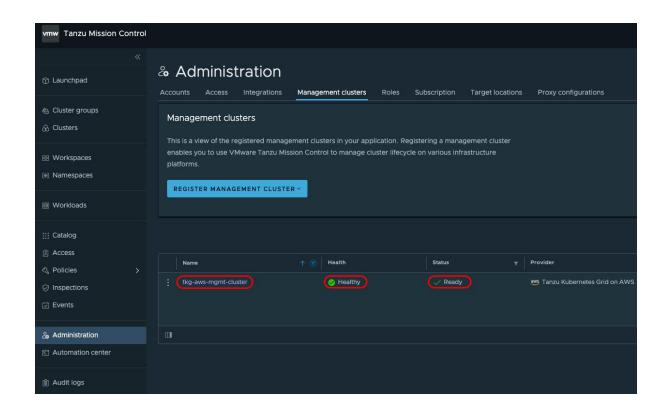


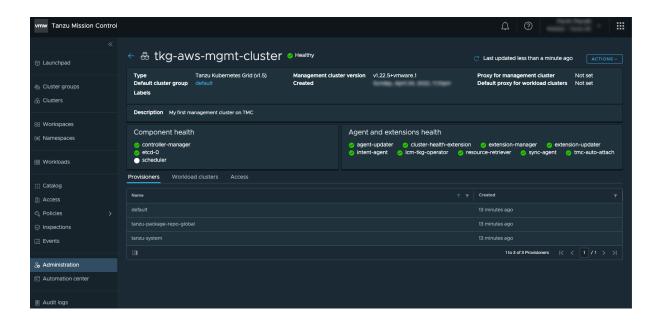


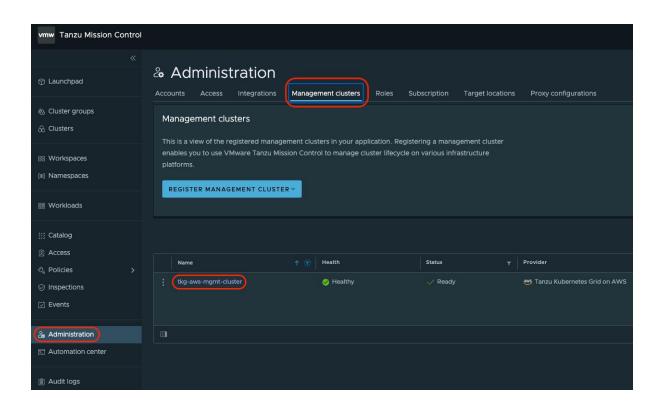


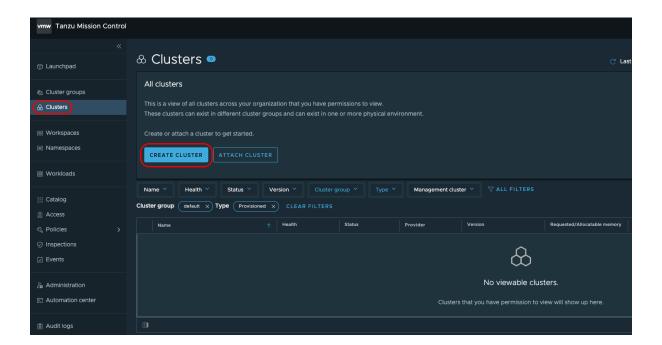


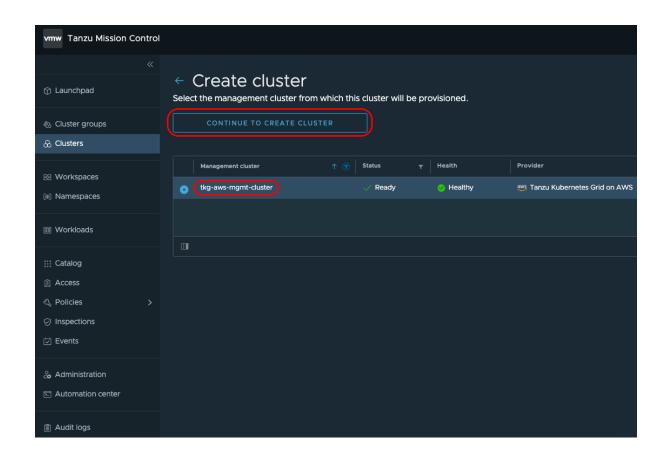


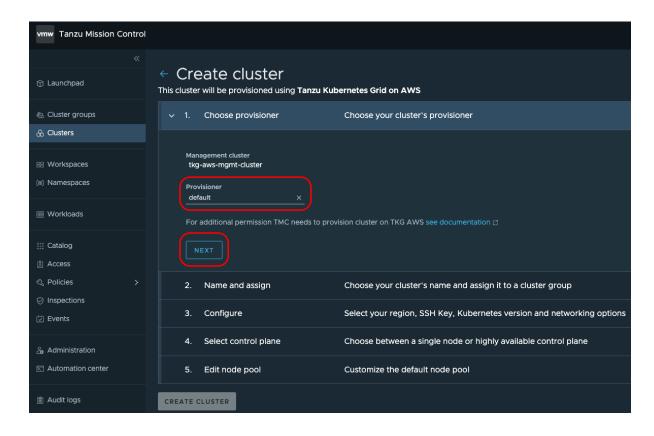


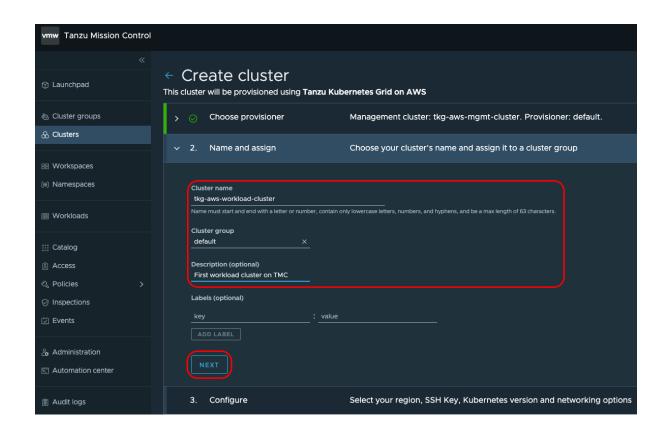


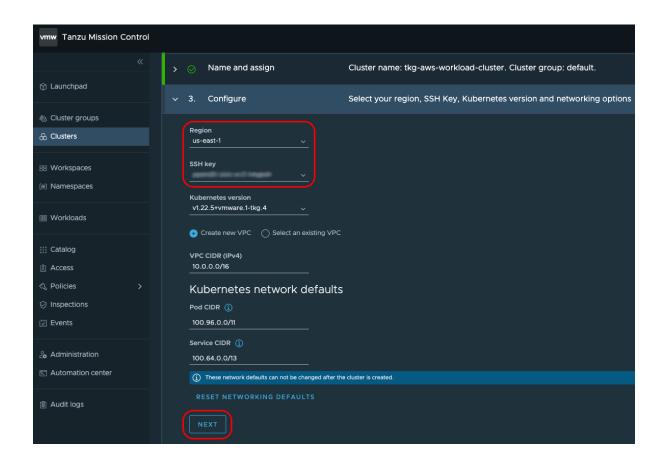


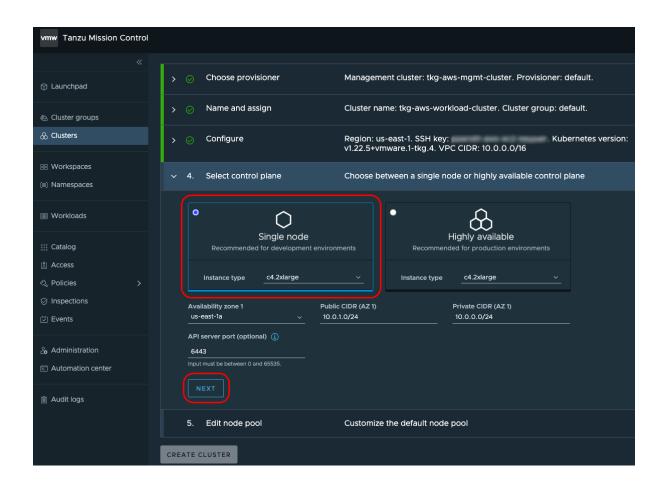


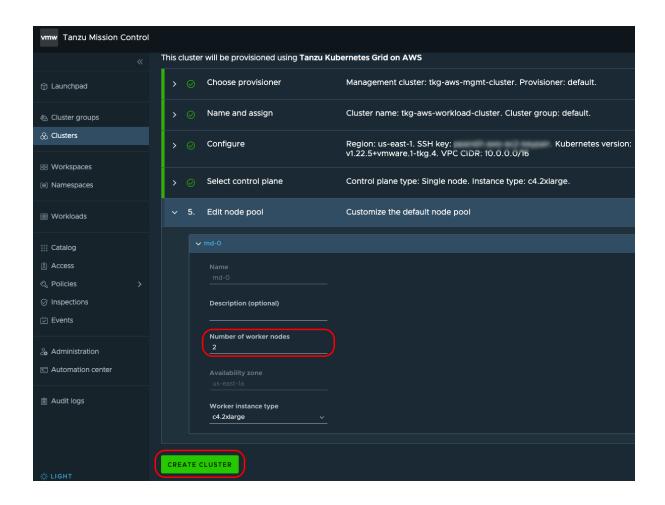


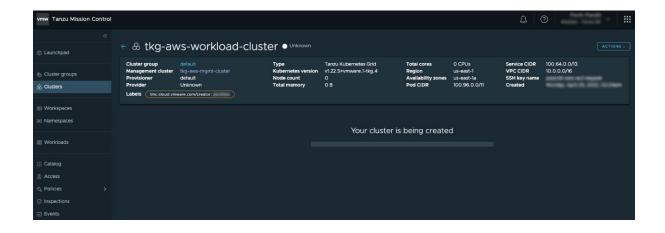


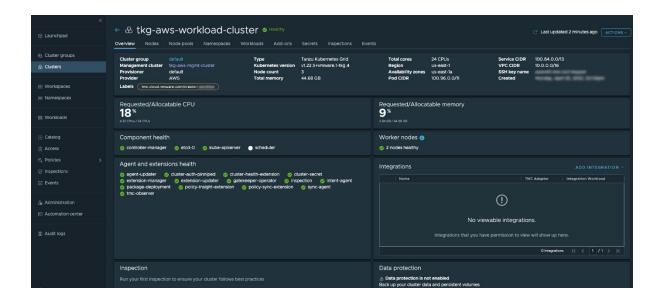


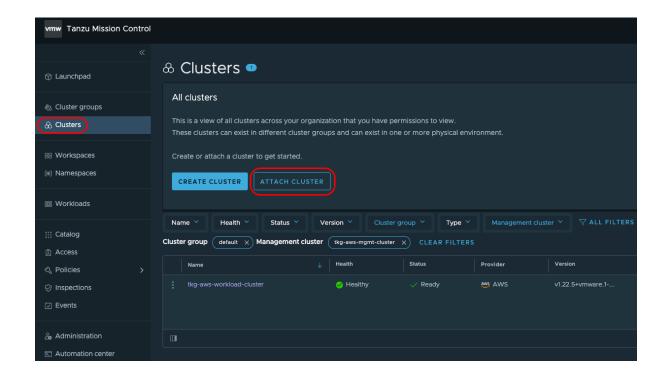


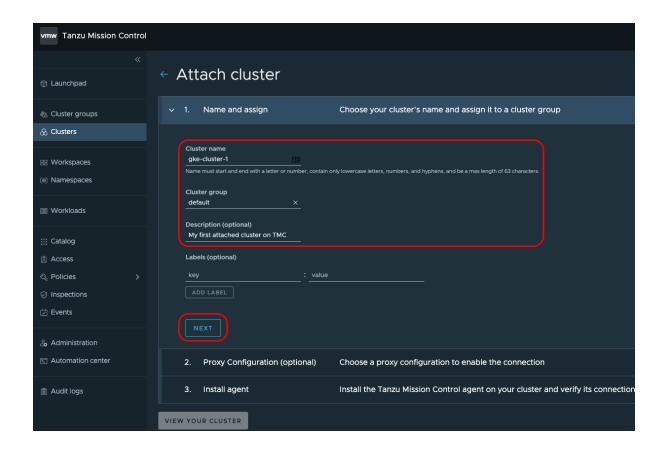


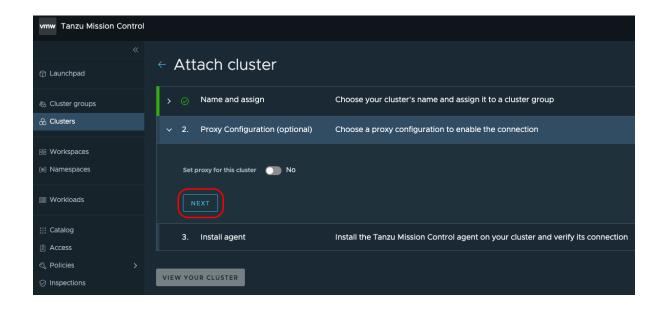


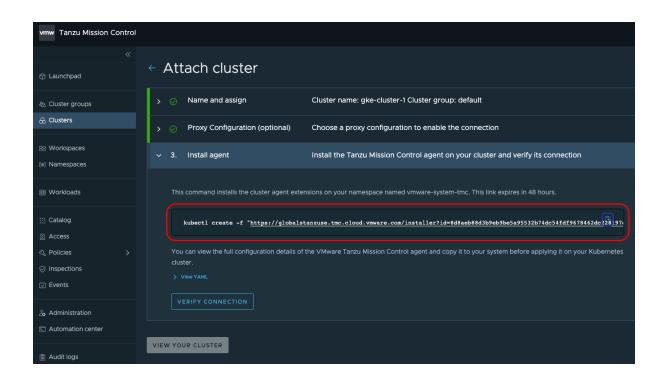


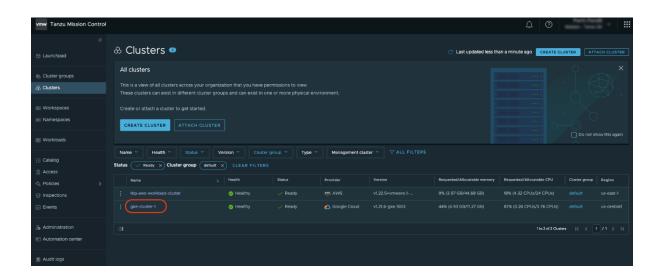


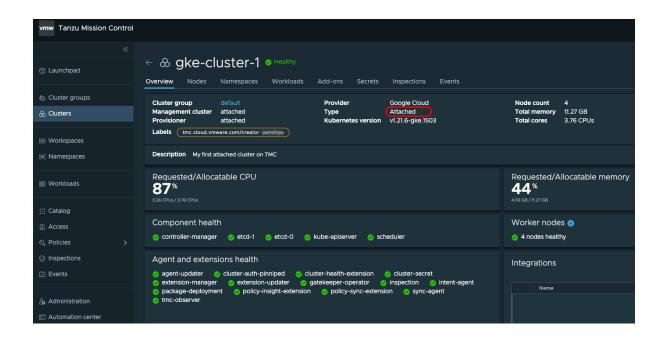


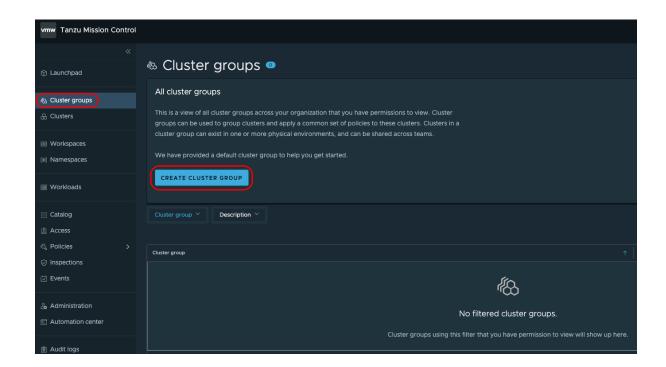


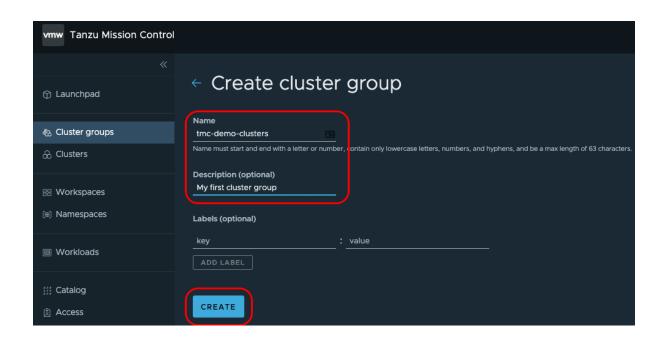


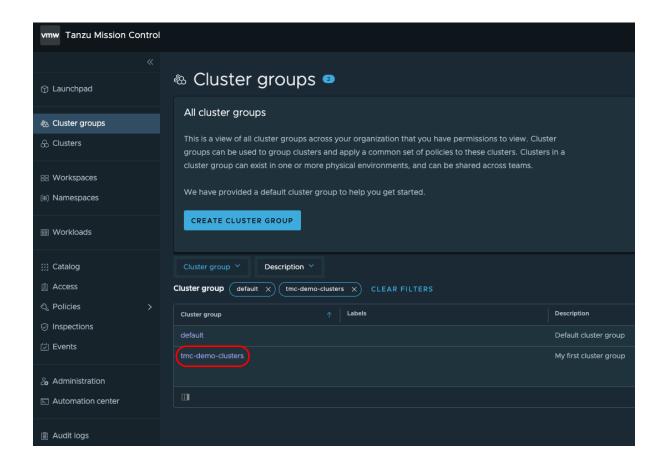


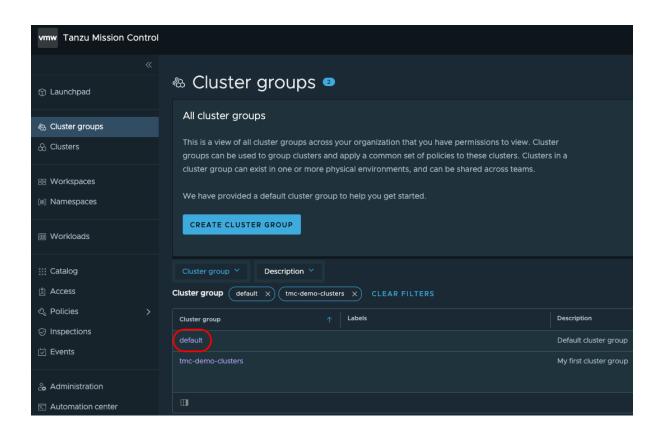


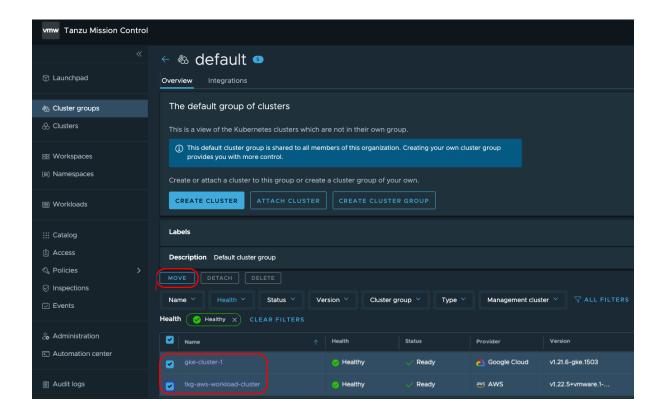


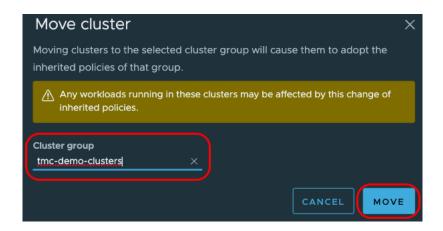


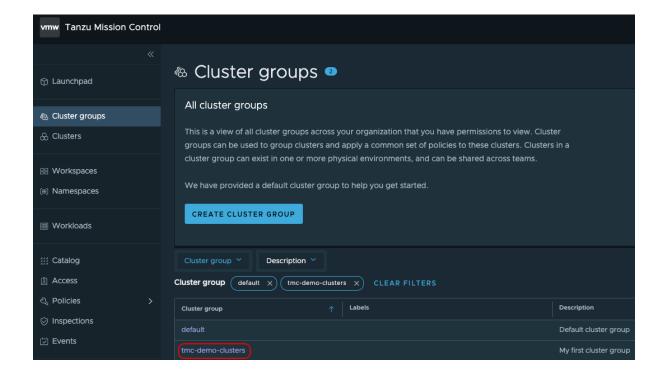


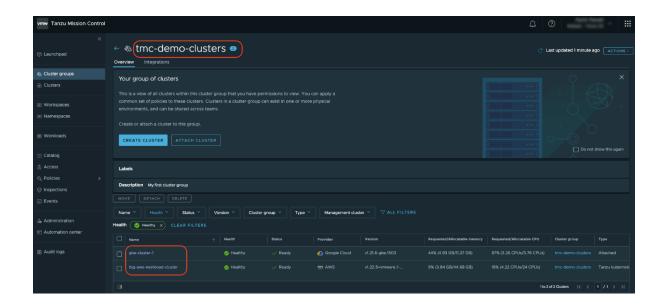


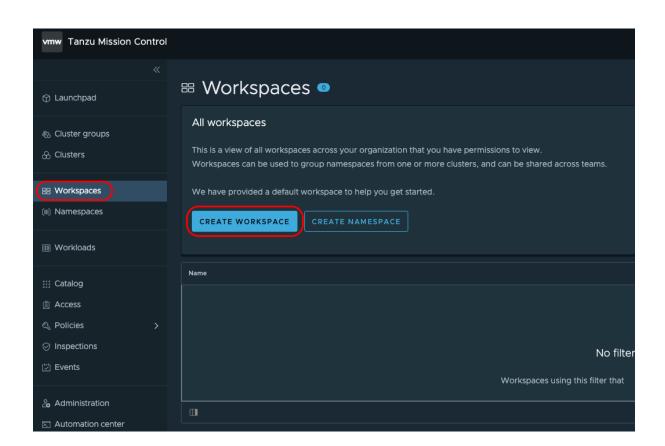


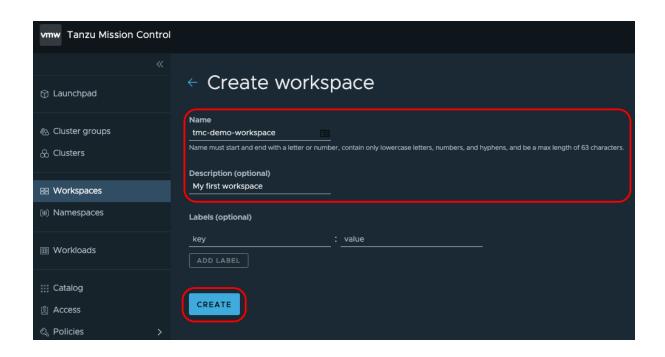


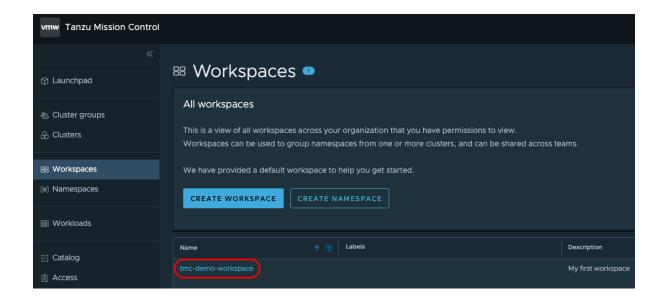


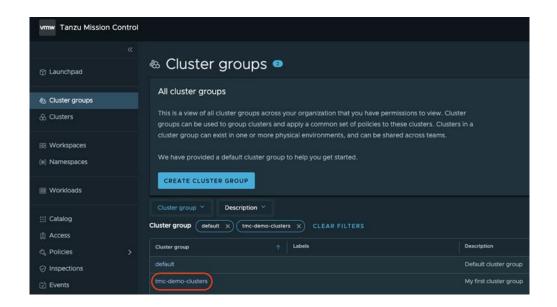


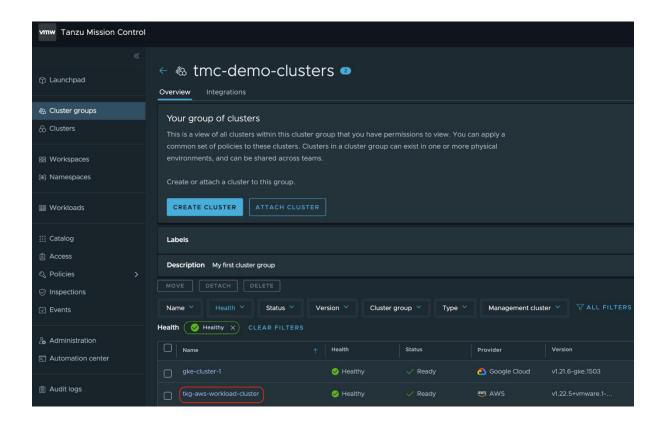


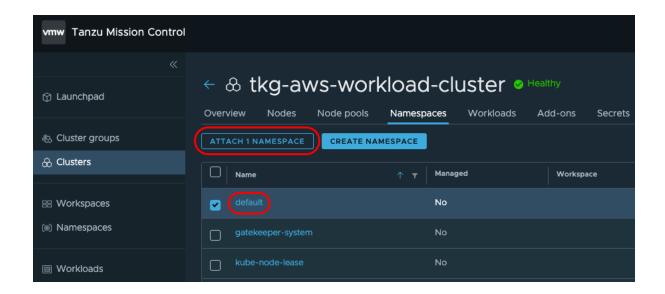


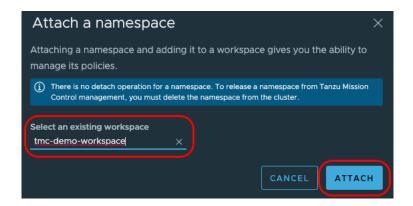


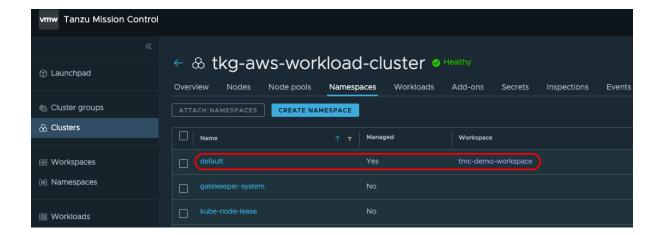


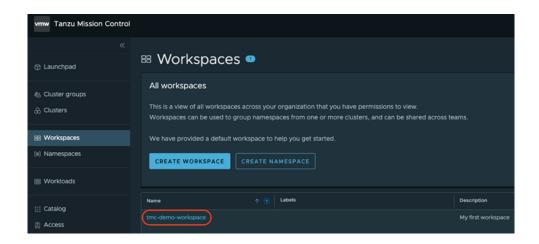


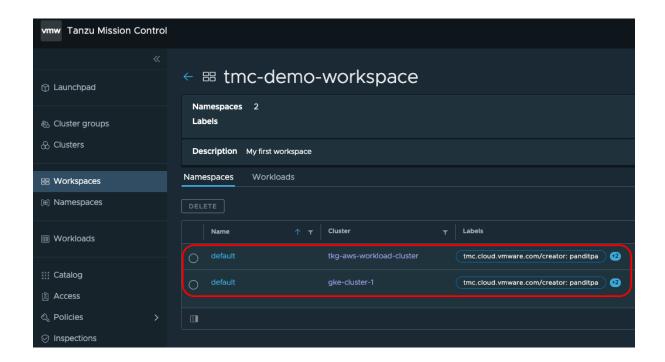


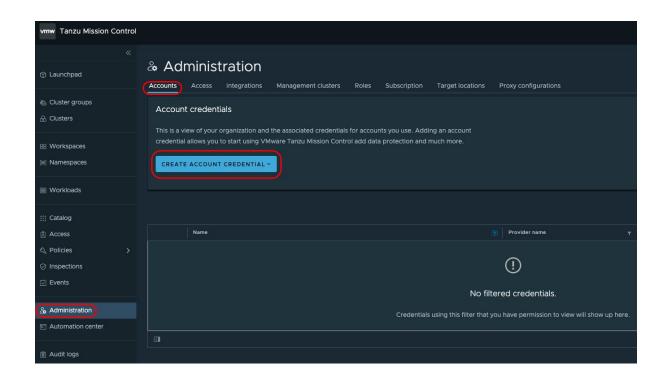


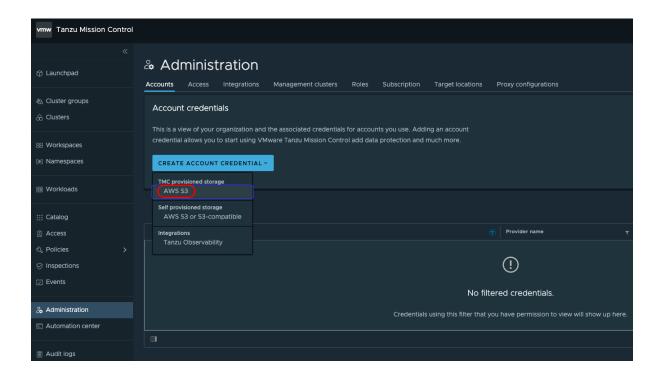


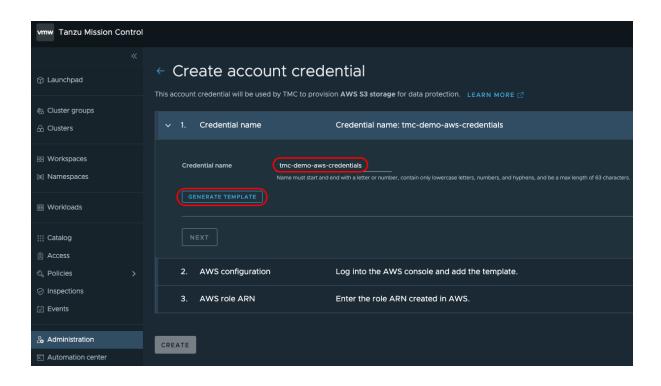


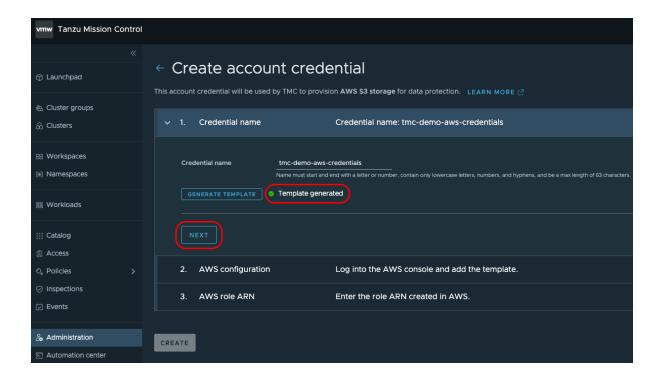


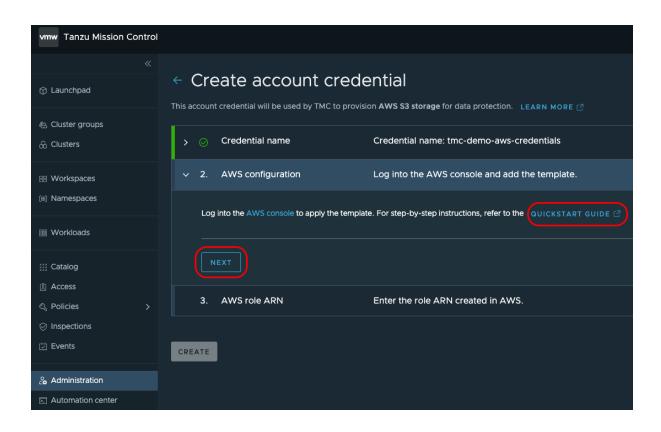


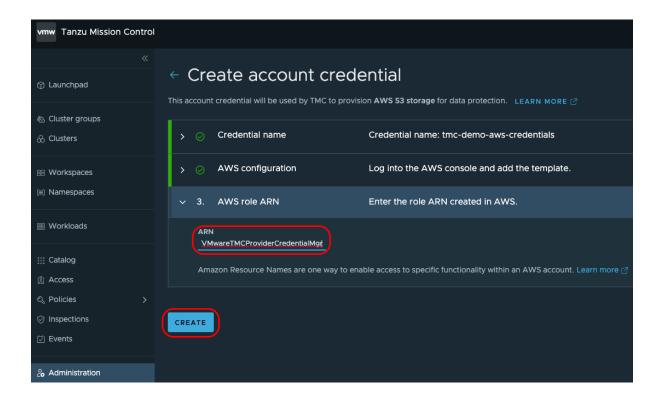


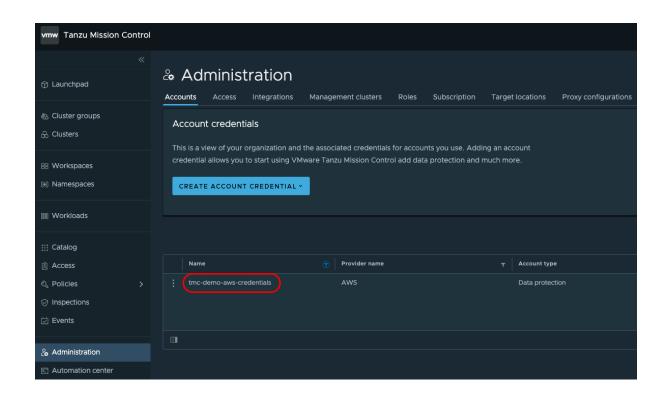


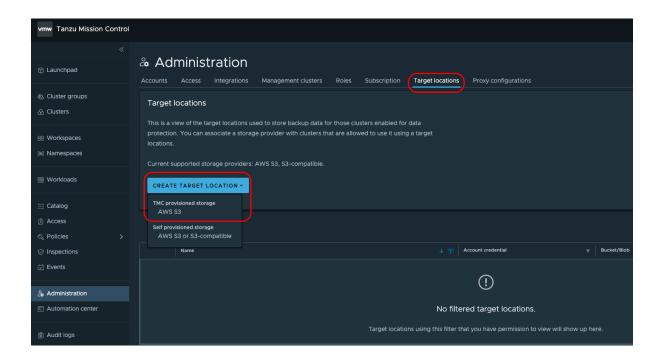


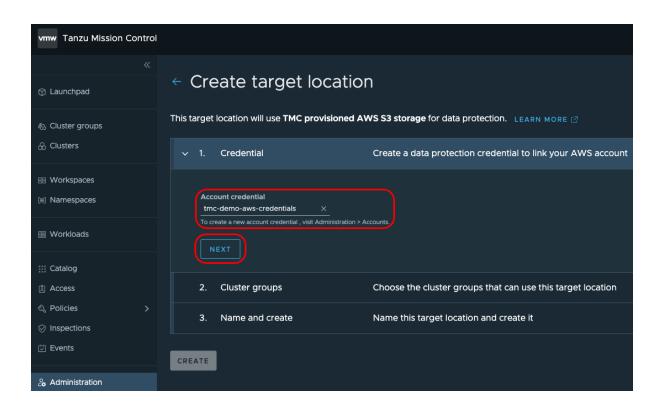


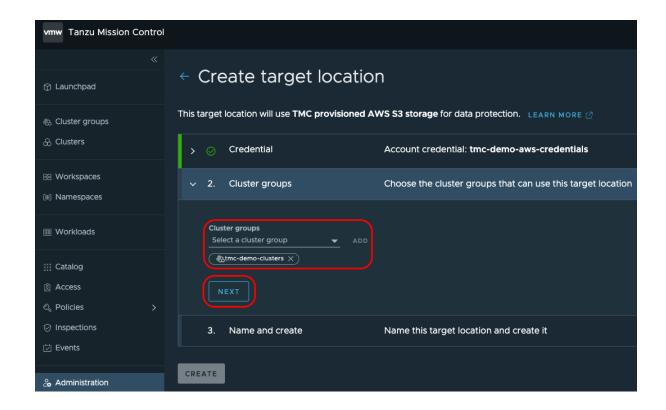


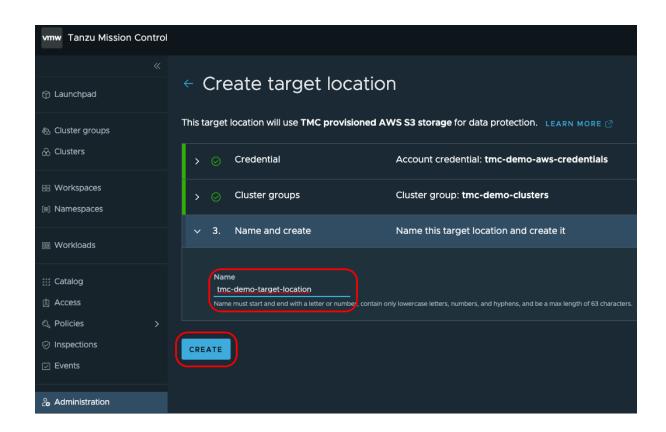


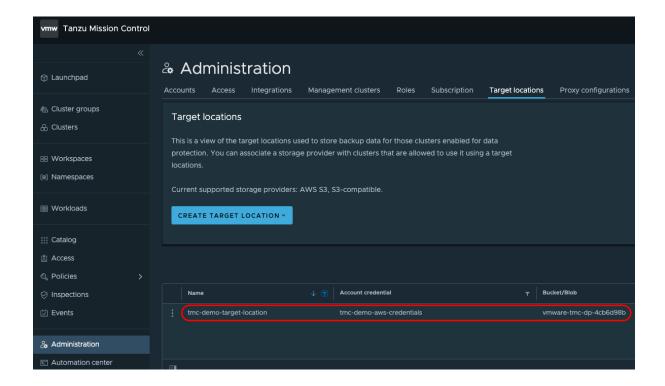


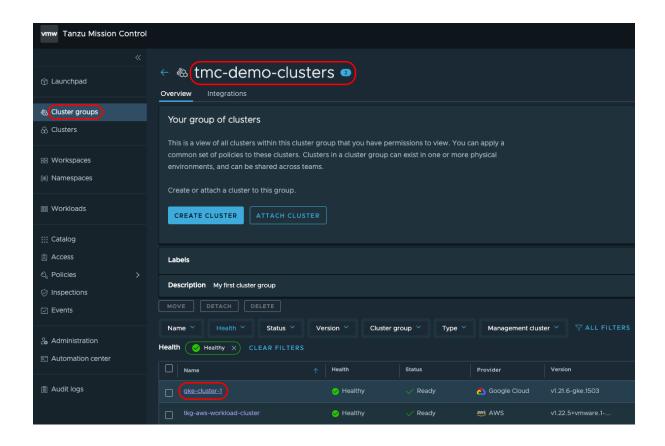


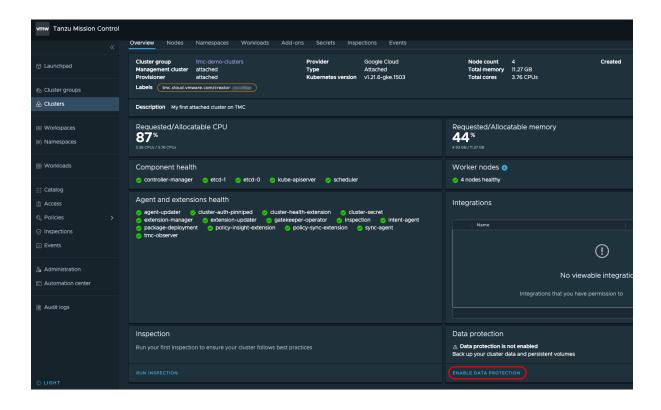


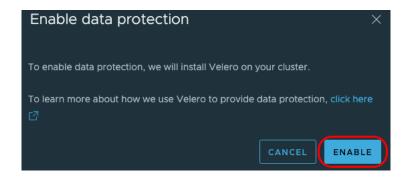


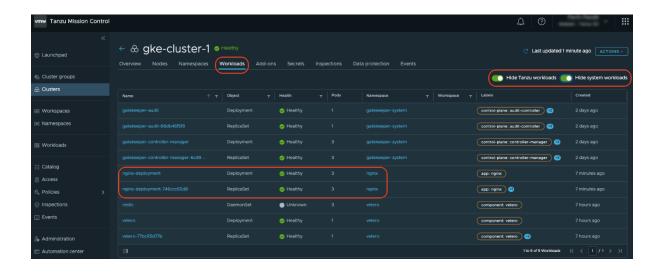


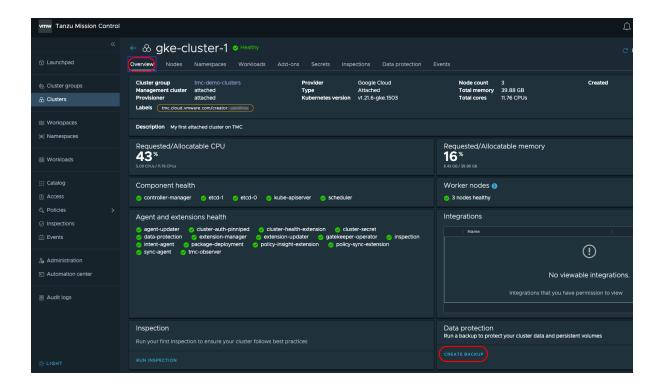


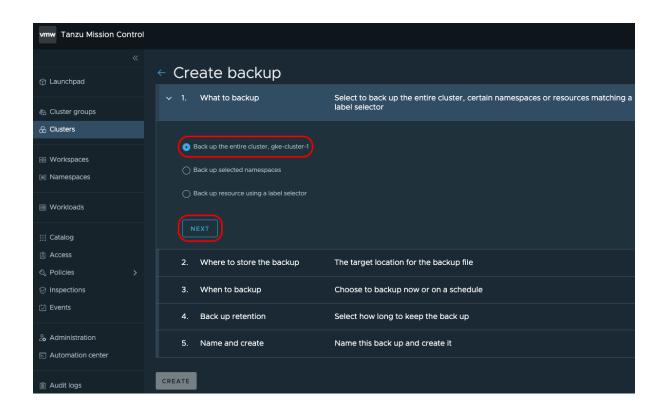


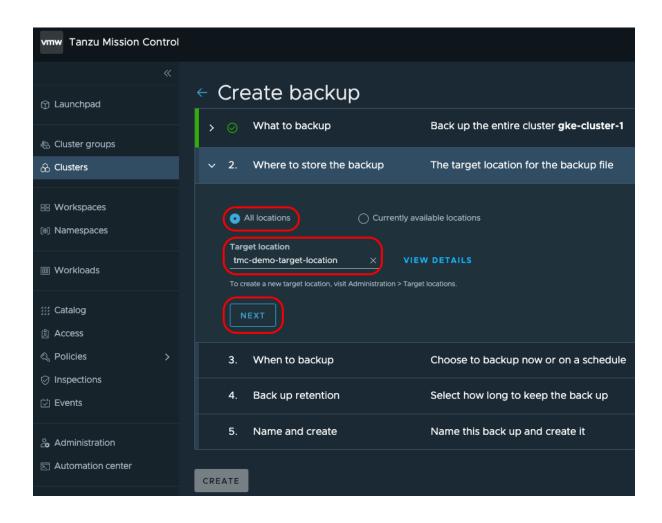


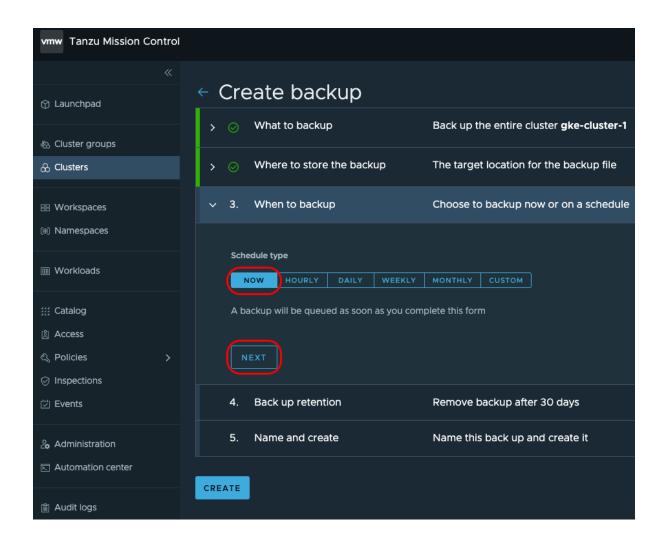


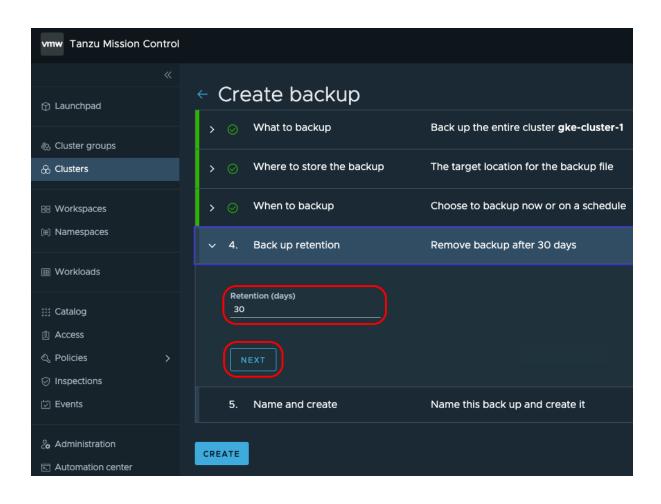


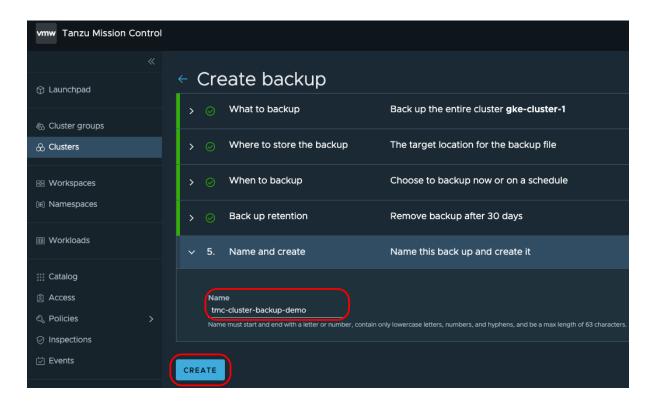


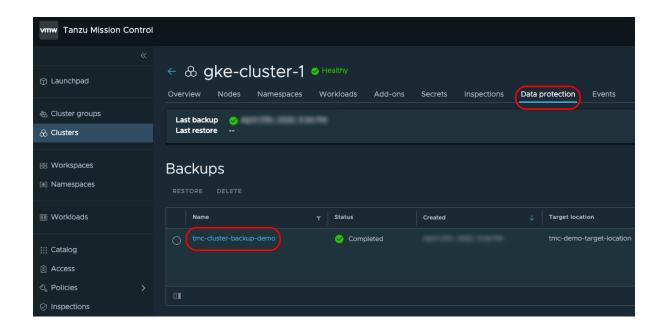


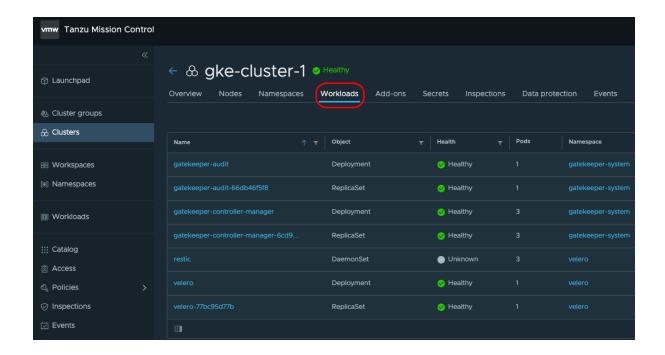


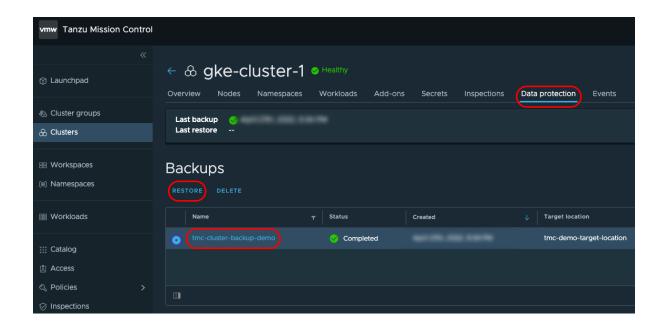


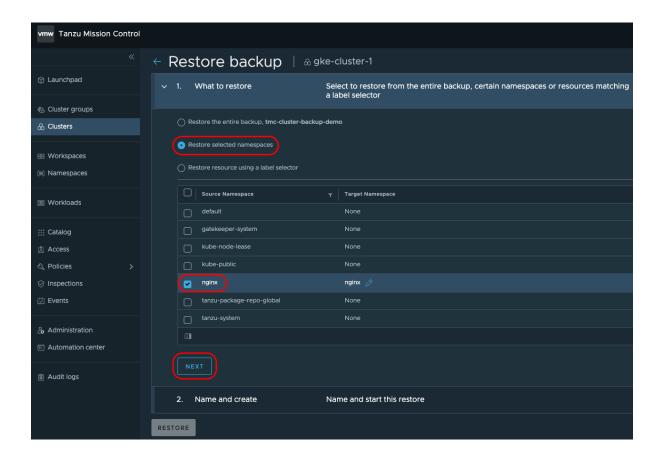


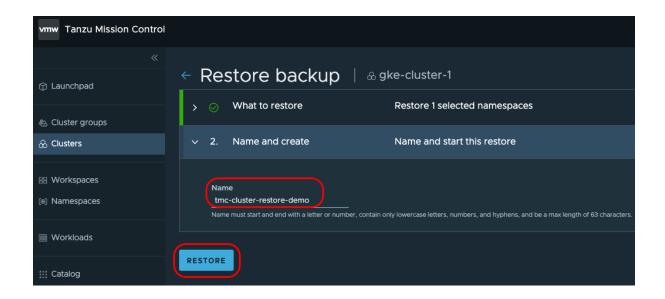


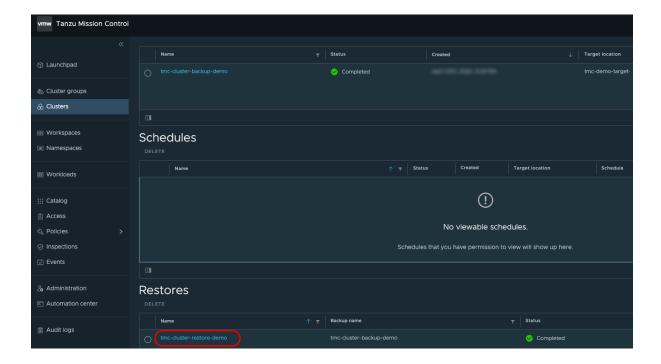


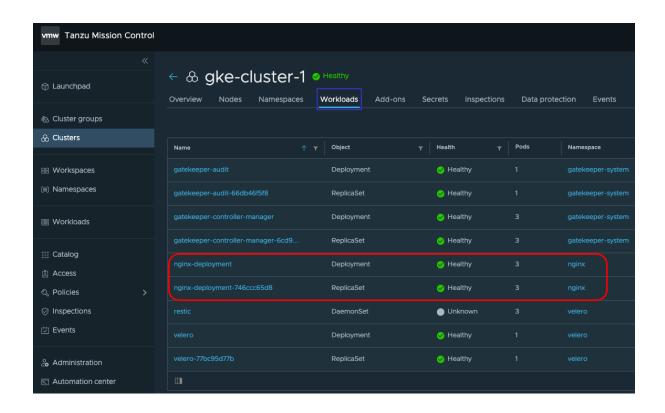


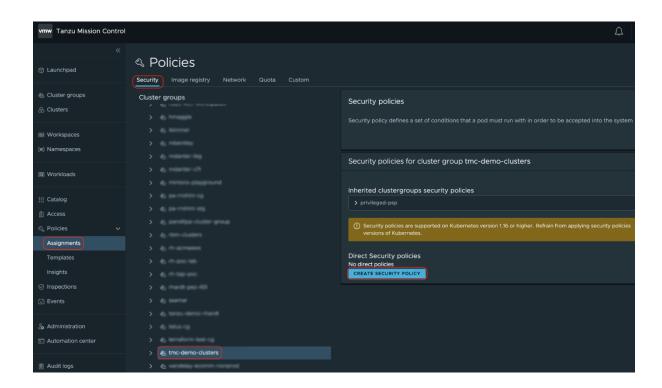


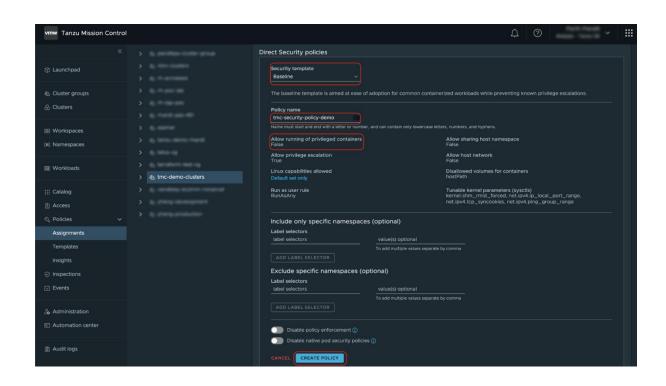


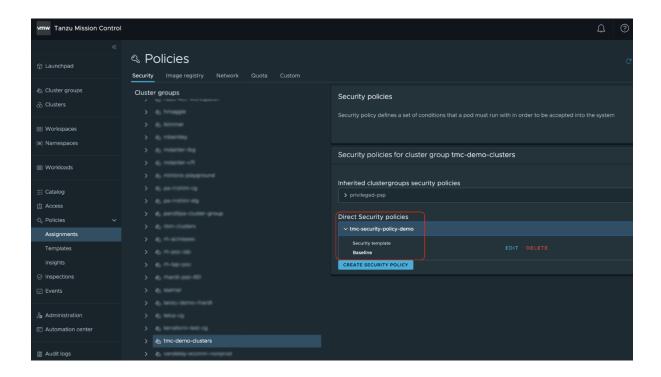


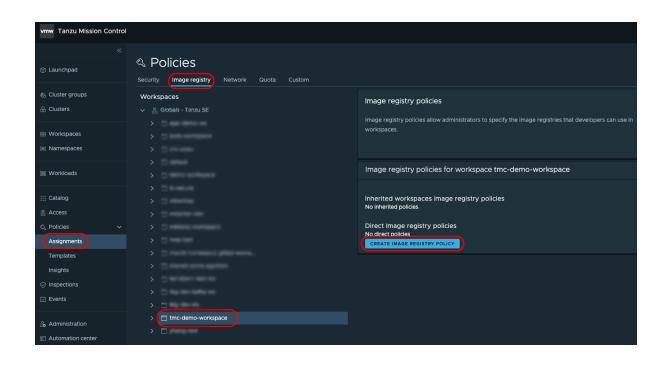


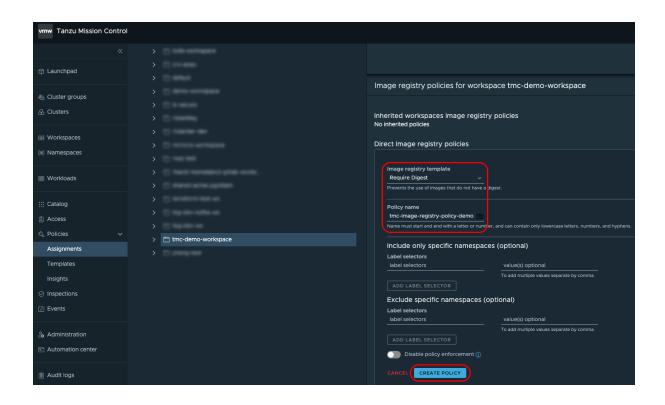


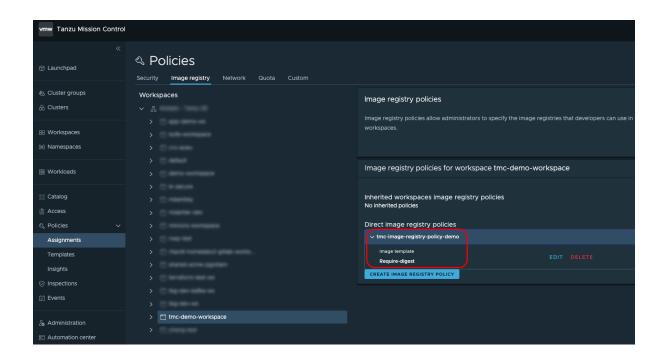


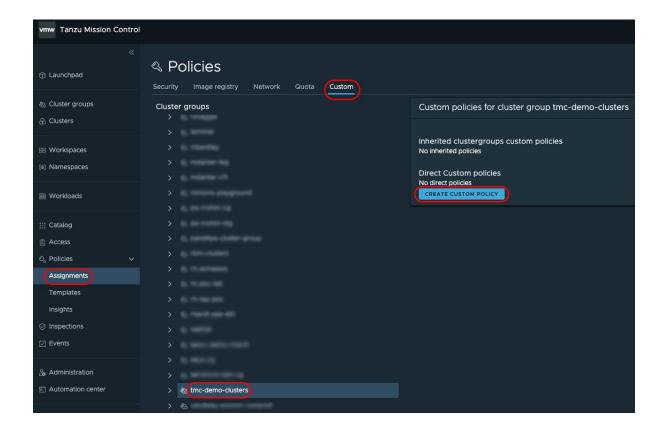


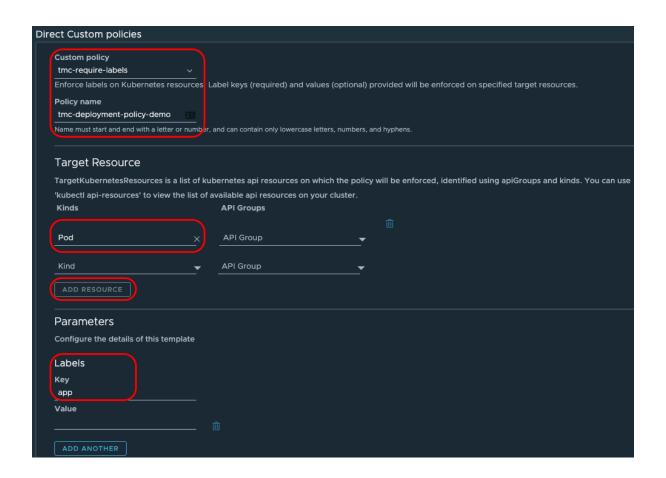


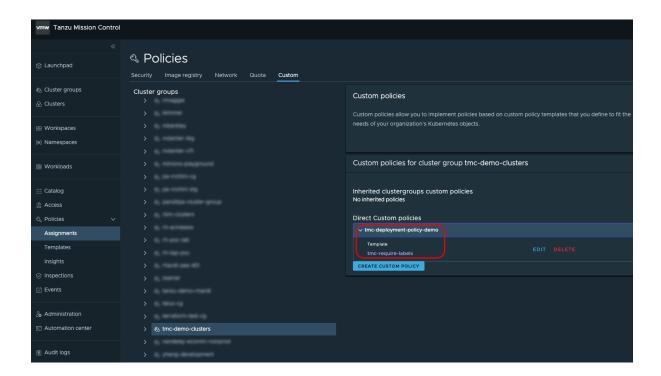


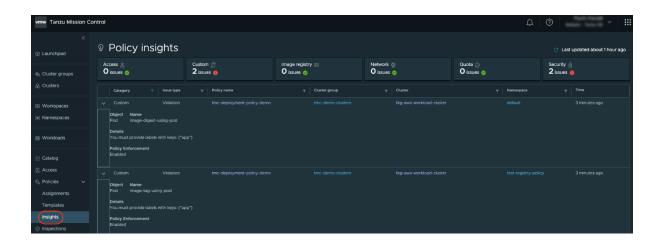


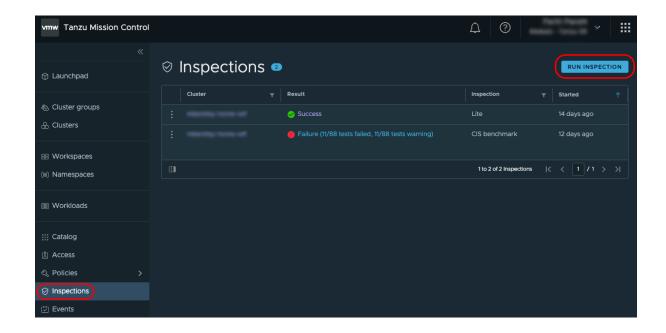


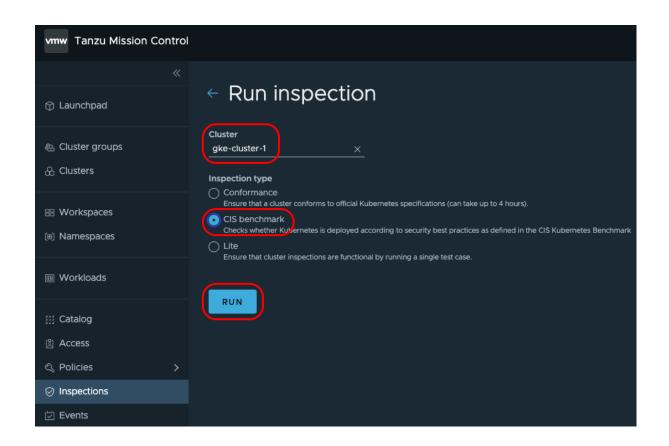


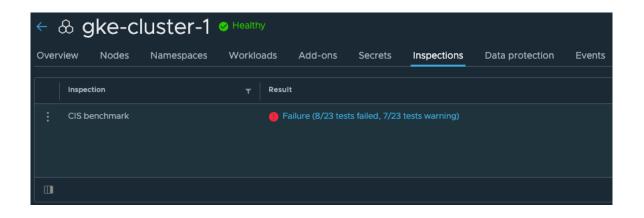


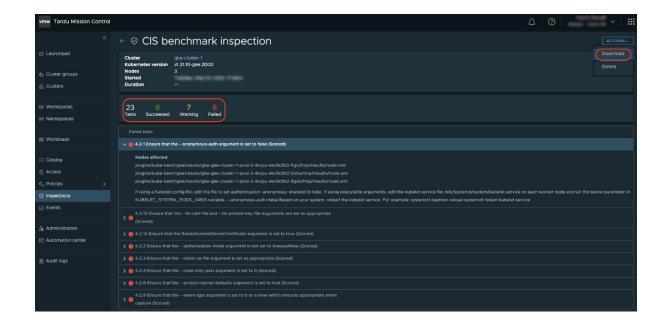




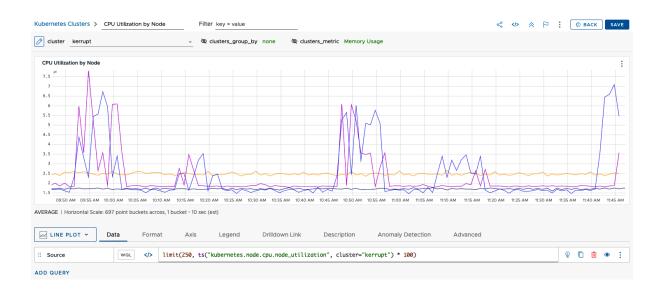


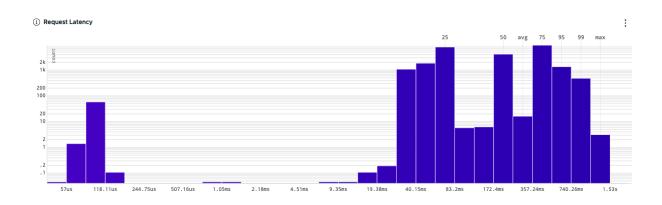




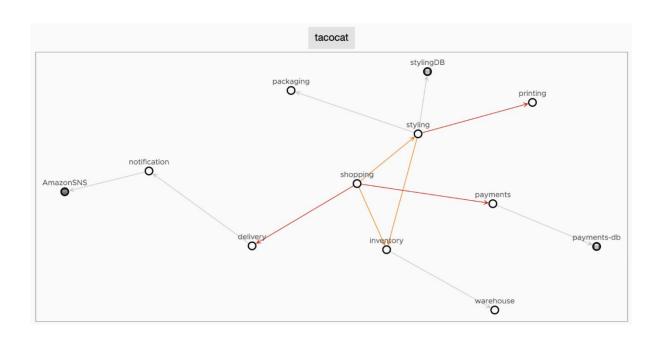


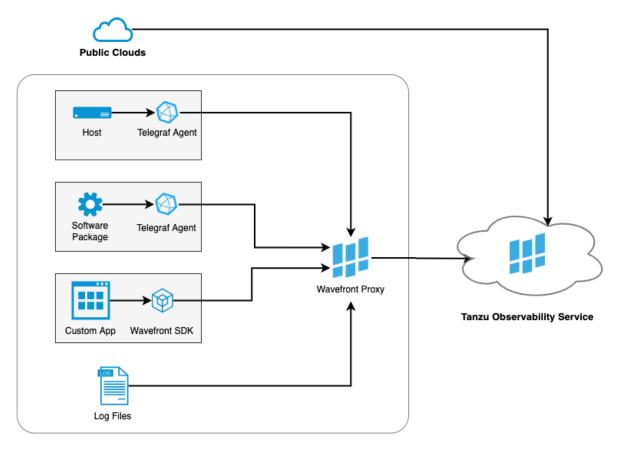
Chapter 10: Realizing Full-Stack Visibility with VMware Aria Operations for Applications



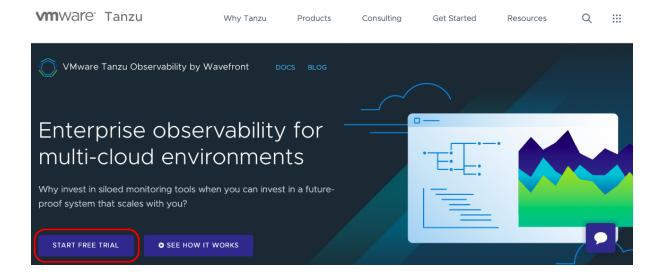


High CPU usage ONGOING For 5 minutes WARN Current Status FIRING **Description** Runbook: https://www.wavefront.com/resolve Alert fires if Condition is true for 2 minutes. Alert resolves if Condition is false for 2 minutes. Alert Targets 🚷 [WARN] Alert Fired: High CPU usage × AVERAGE | Horizontal Scale: 298 point buckets across, 1 bucket ~ 1 sec (est) Start Ranked sources and point tags. More likely causes for the alert come first. GMT+0000 (UTC) pod (100%) (100%) region (us-west-2 (33%) service (inventory (application (beachshirts (11%) build (1574741494000 (11%)) 1ms a6294e7 (33%) End GMT+0000 (UTC) OPEN IN CHART EDITOR Newly Affected Sources(s) 05d992ac6a63ce351 ∠ LINE PLOT ✓ Newly Affected Sources/Labels: O iii Display Expression wal </> ts(cpu.usage) i-0c0bfff680a6294e7: cpu.usage See More Details 🗸 🗋 🛍 🕸 🗓 waL </> ts(cpu.usage) > .90





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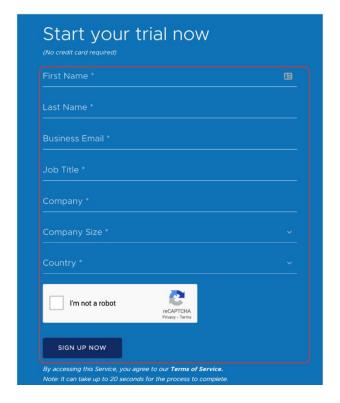
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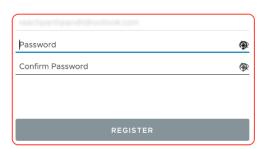
Welcome to



VMware Tanzu Observability

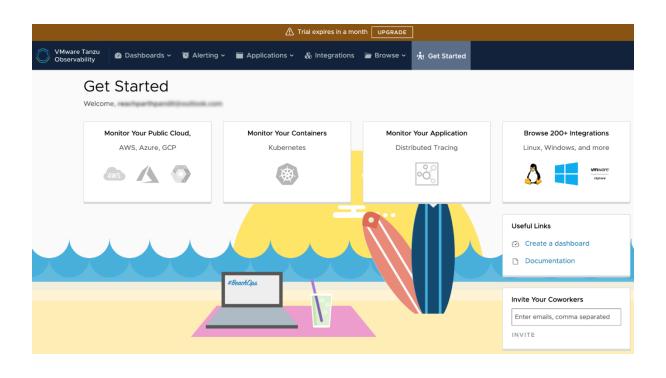
Set Your Password

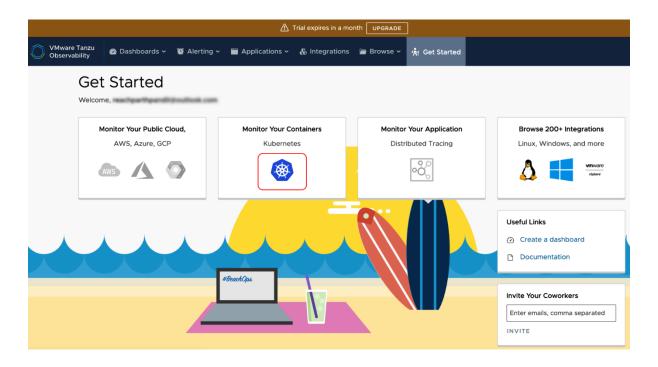
- Minimum 8 characters.
- At least 1 digit.
- At least 1 special character (!@#\$%...).
- At least 1 letter.

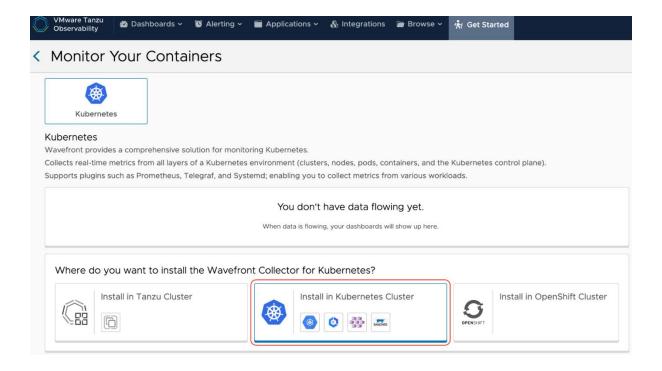


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Kubernetes Quick Install using Helm

If you prefer not to use Helm, follow the manual installation instructions.

Step 1 Install Helm: Ensure that you have Helm installed. This is a one-time install.

Step 2 After you have Helm installed, copy and run the following command in the command line.

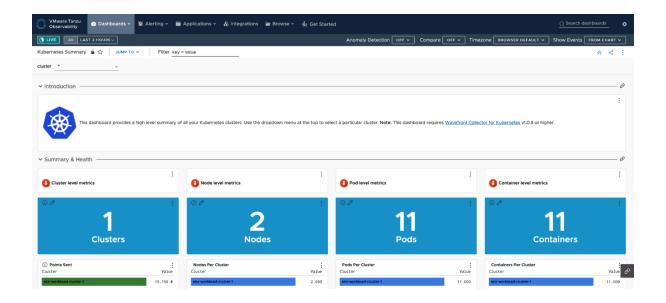
helm repo add wavefront https://wavefronthq.github.io/helm/ && helm repo update

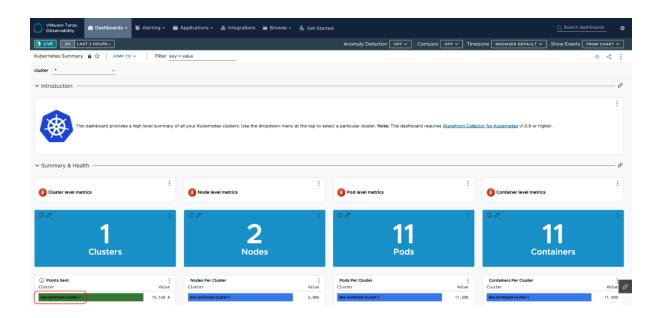
Step 3 Enter your cluster name, then copy and run the following command in the command line.

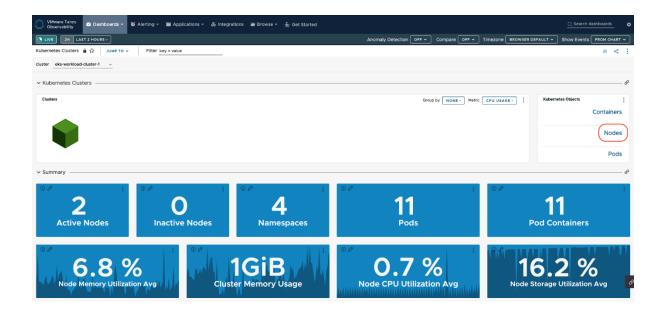
Cluster Name Your cluster name

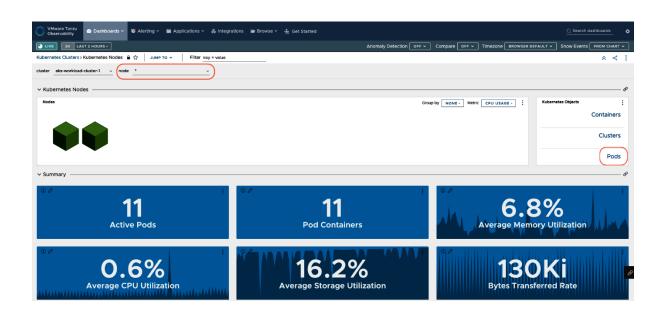
> ADDITIONAL SETTINGS

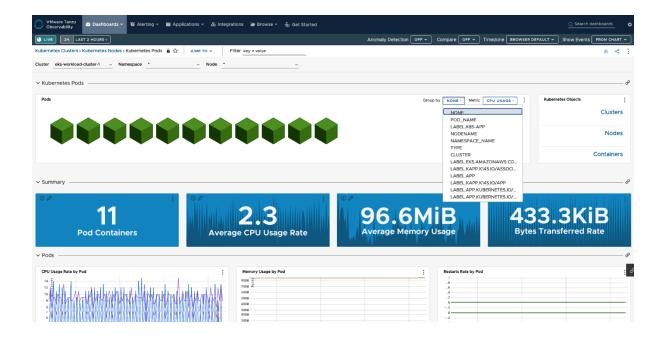
kubectl create namespace wavefront && helm install wavefront wavefront/wavefront \
 --set wavefront.url=https://longboard.wavefront.com \
 --set wavefront.token=
 --set clusterName="<YOUR_CLUSTER_NAME>" --namespace wavefront

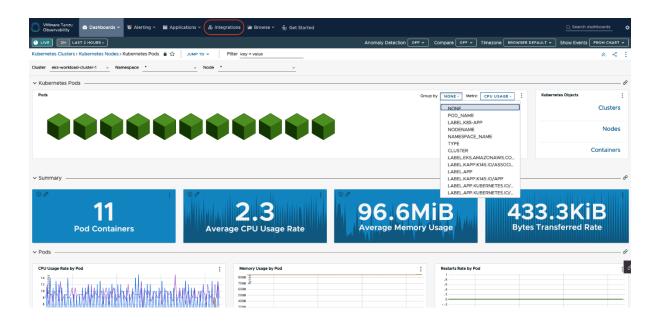


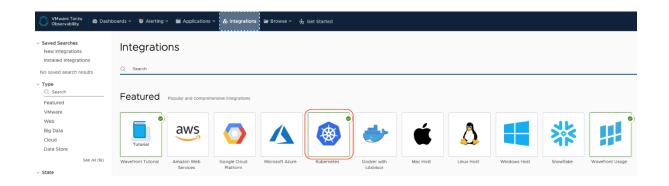


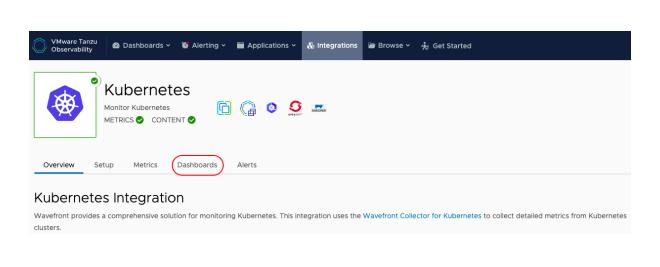


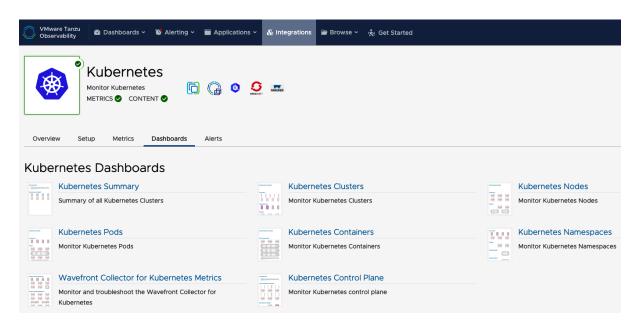


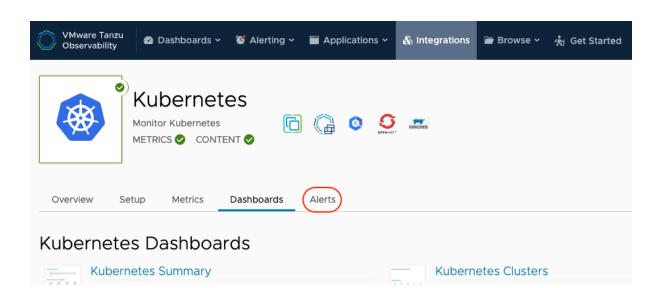


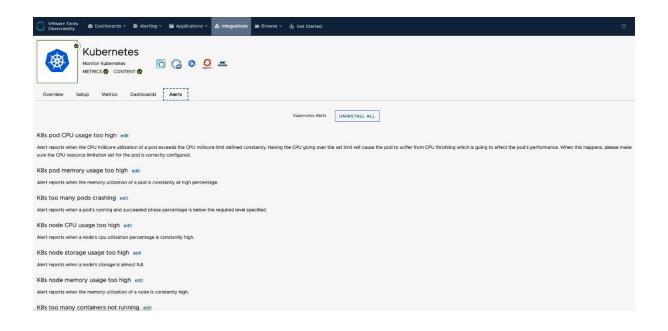


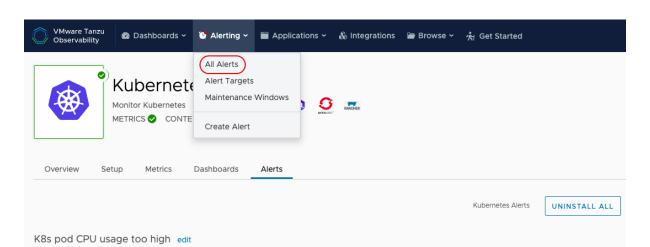


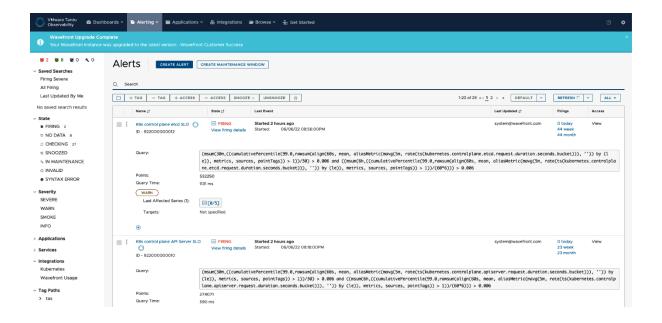


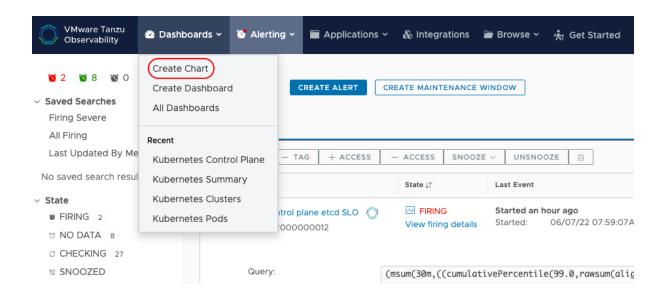


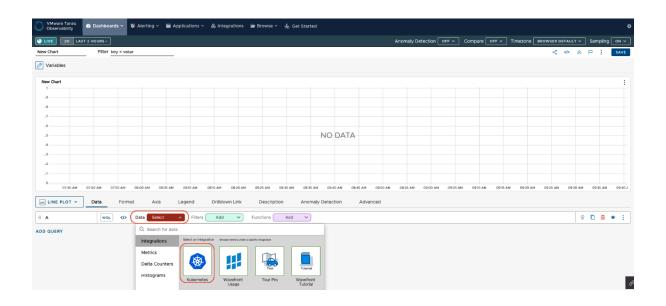


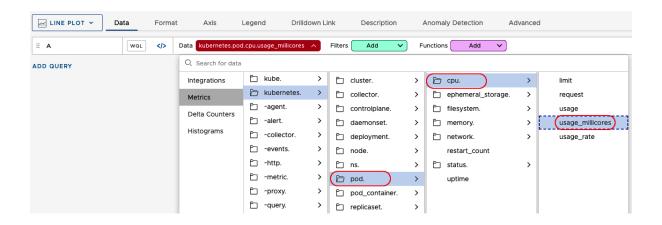


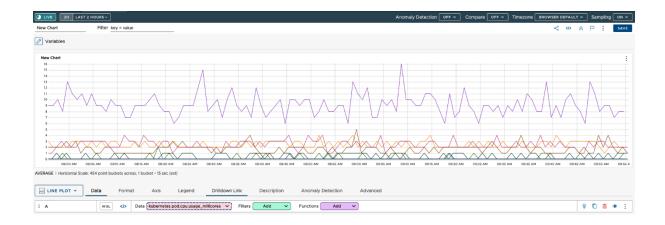


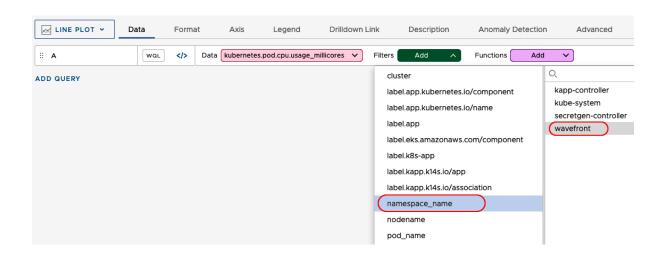


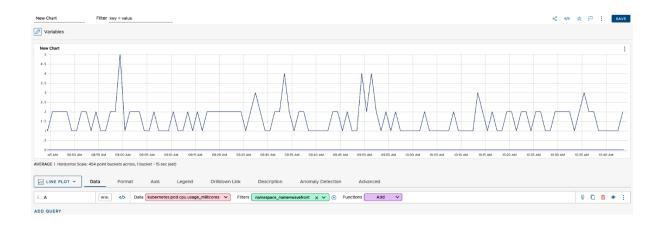


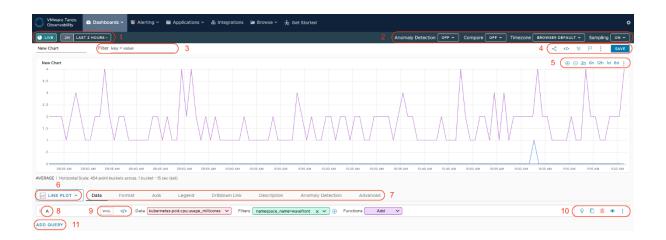


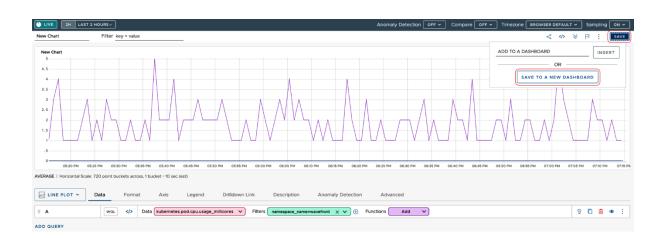












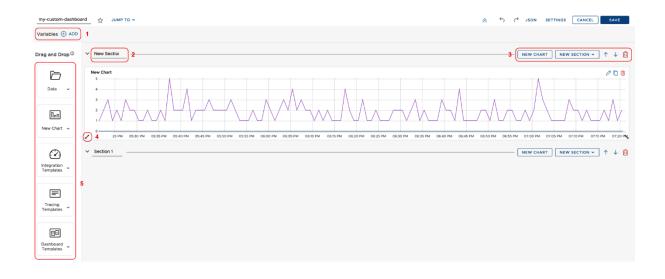
Create Dashboard

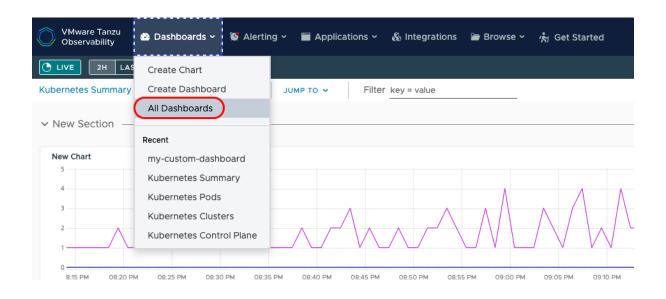
X

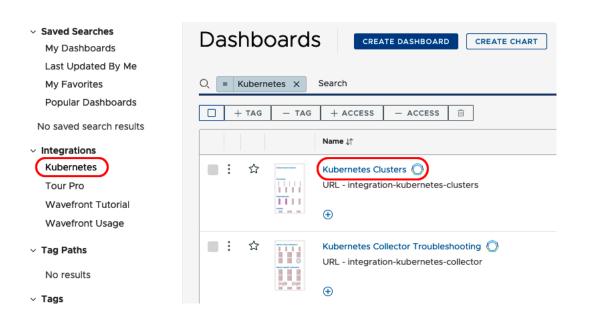
Name * my-custom-dashboard

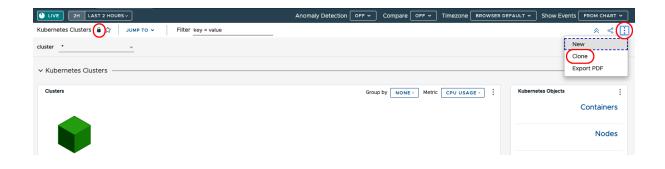
URL * my-custom-dashboard

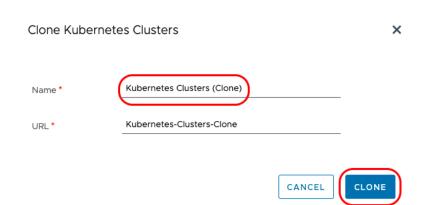
CANCEL

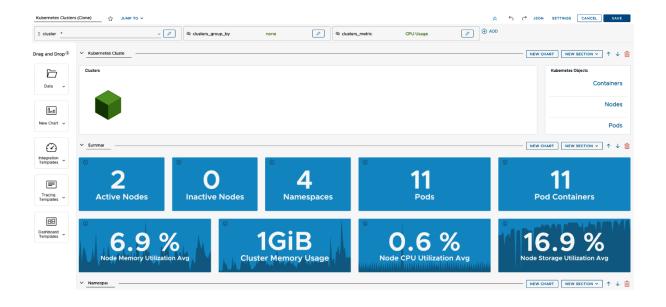


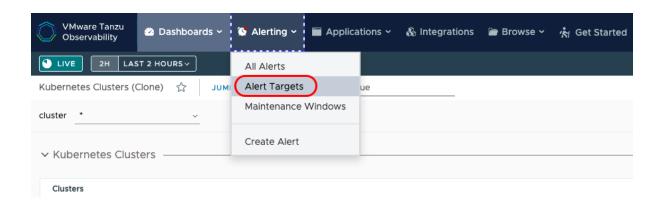


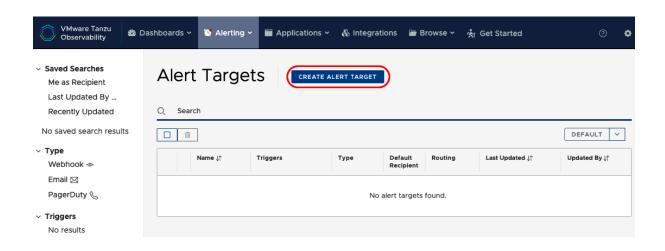


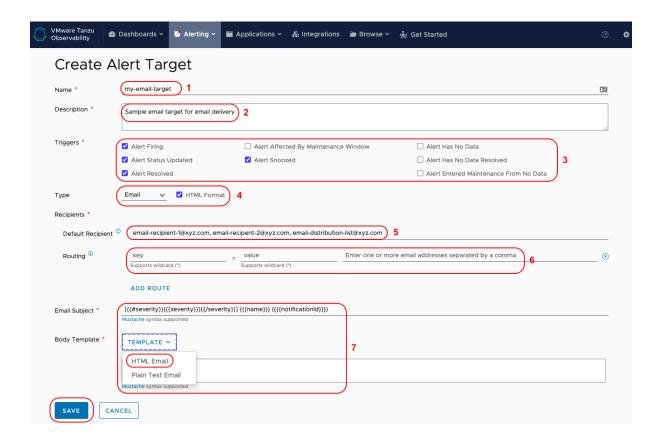


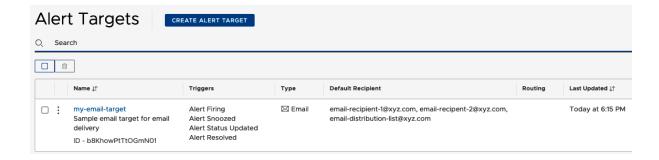


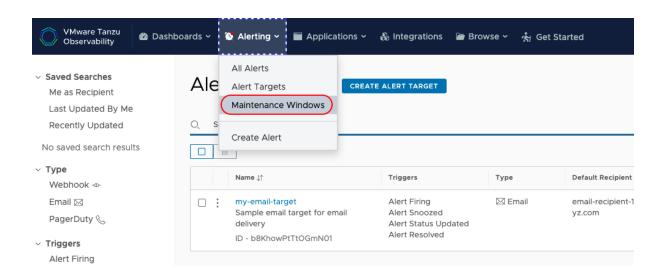


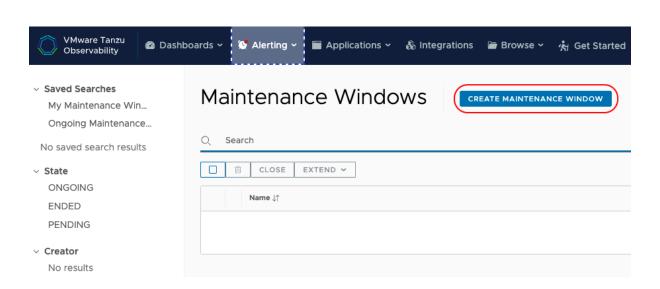


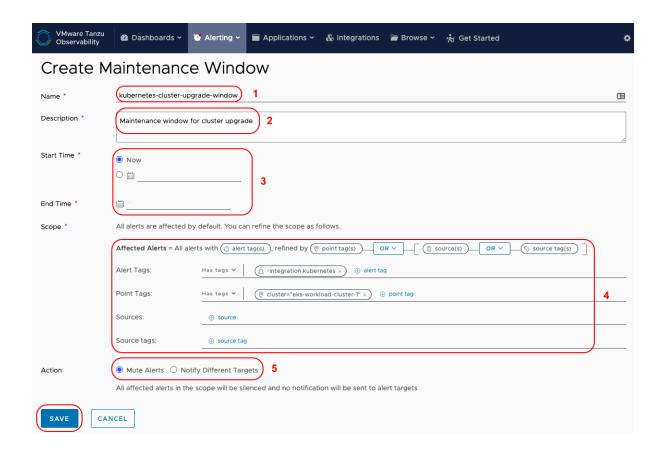


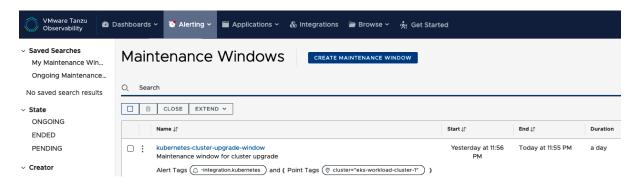


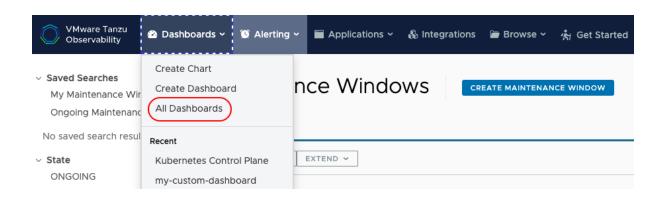






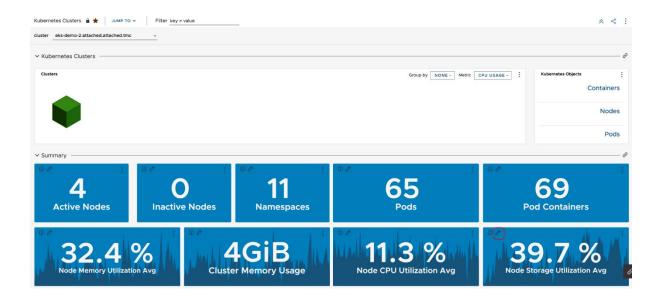






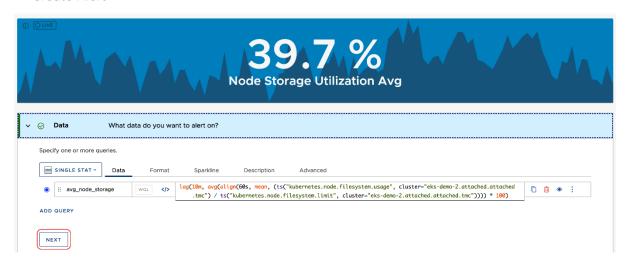








← Create Alert



2. Conditions When do you want the alert to be triggered? (i) Specify a threshold for at least one severity. Alert Condition * Specify at least one threshold. Trigger alert when the query value is greater than SEVERE > 90 WARN > 80 1

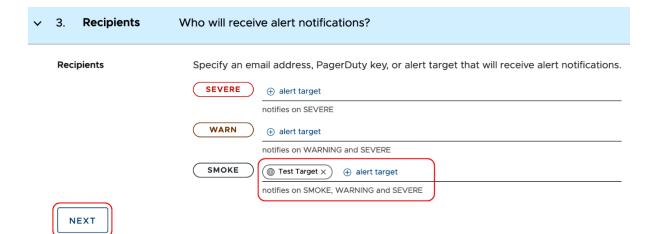


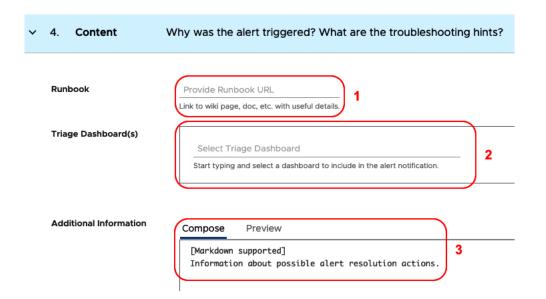
Resolve Window Alert resolves automatically if the condition is false for 5 minute(s).

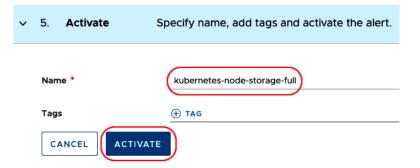


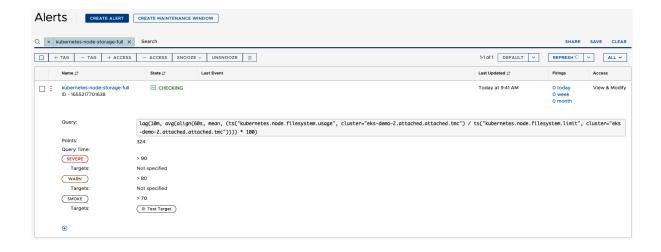
Trigger Window

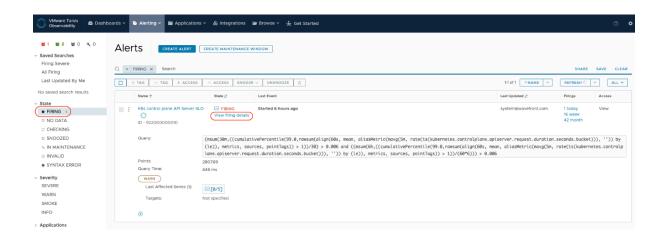


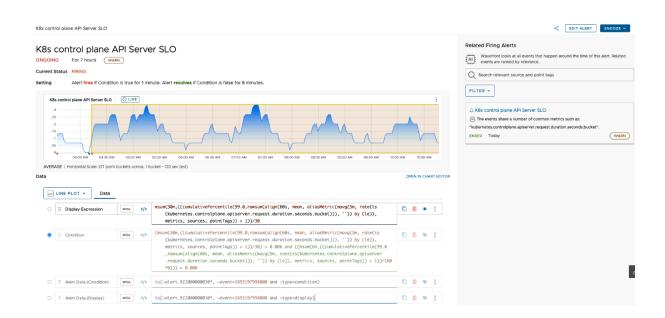




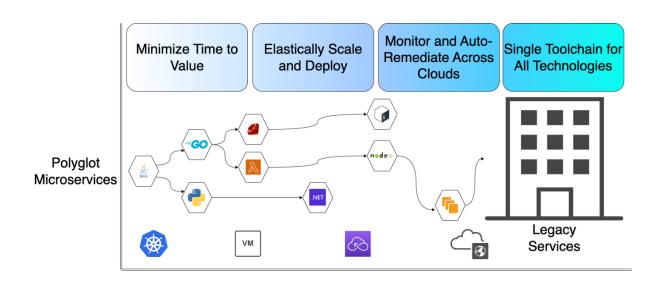


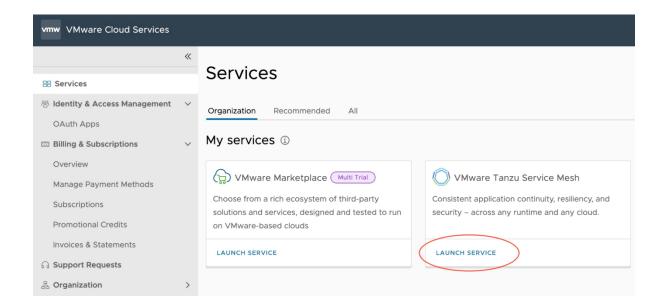


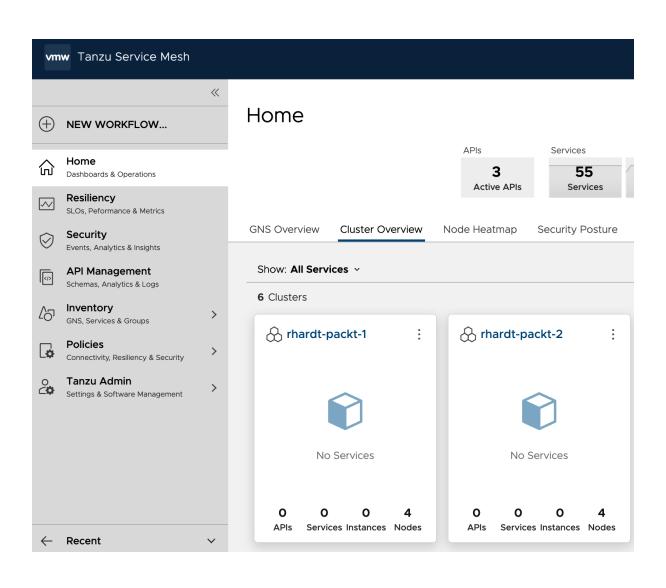


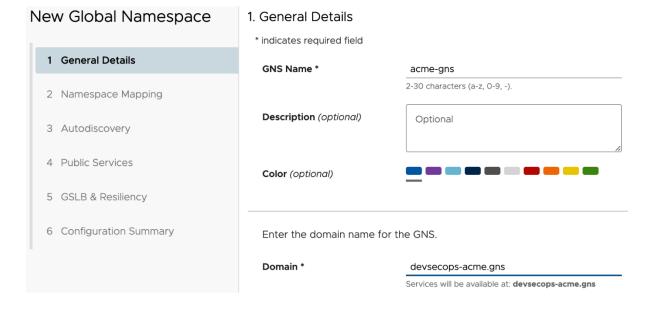


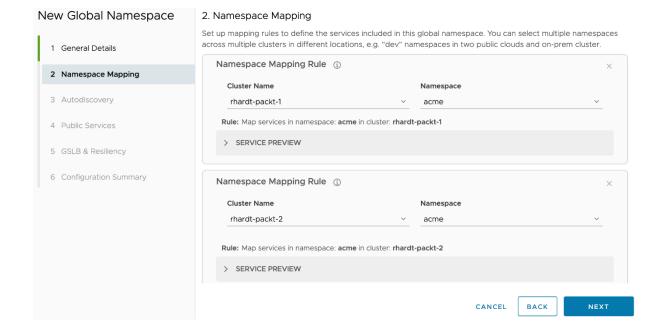
Chapter 11: Enabling Secure Inter-Service Communication with Tanzu Service Mesh

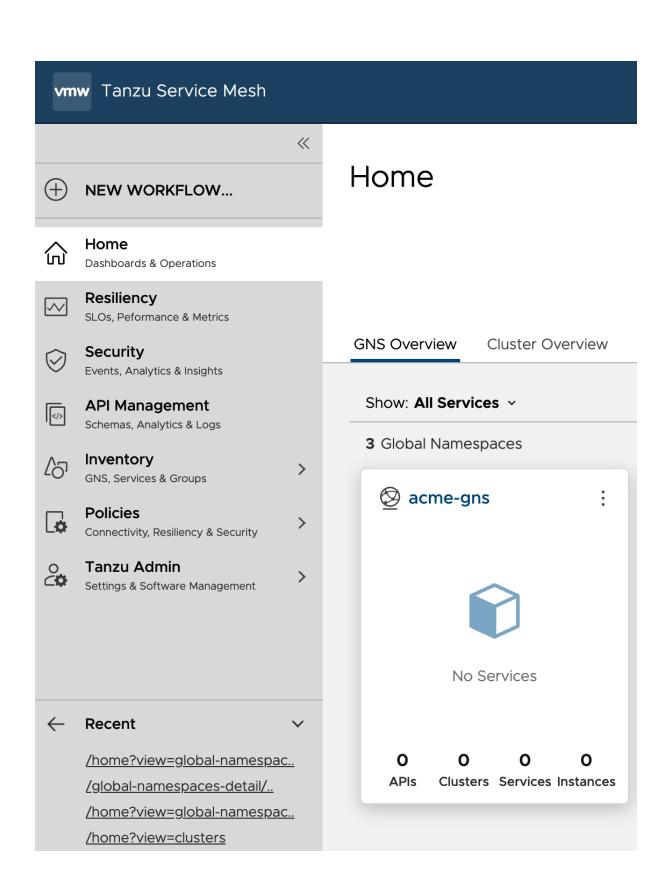


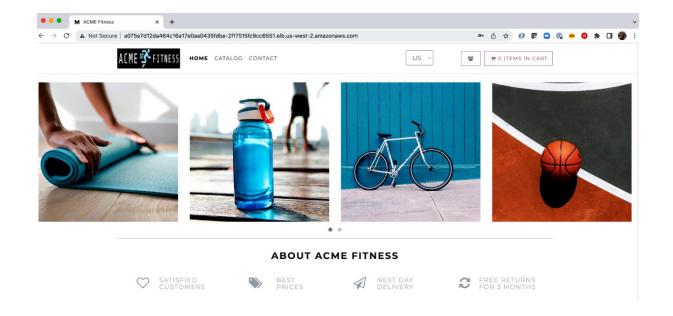




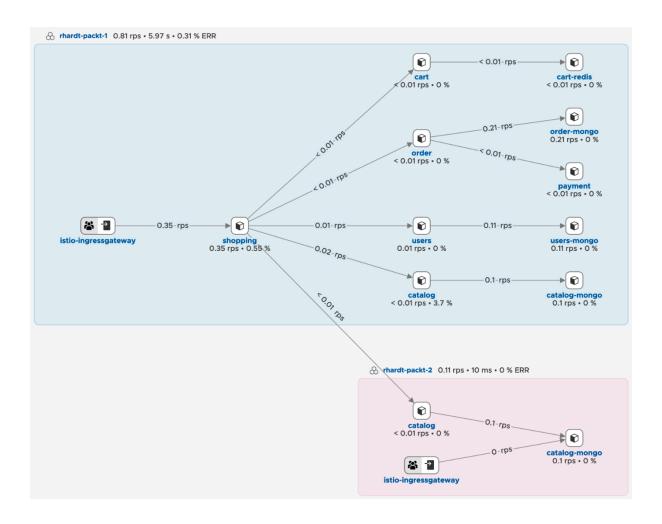


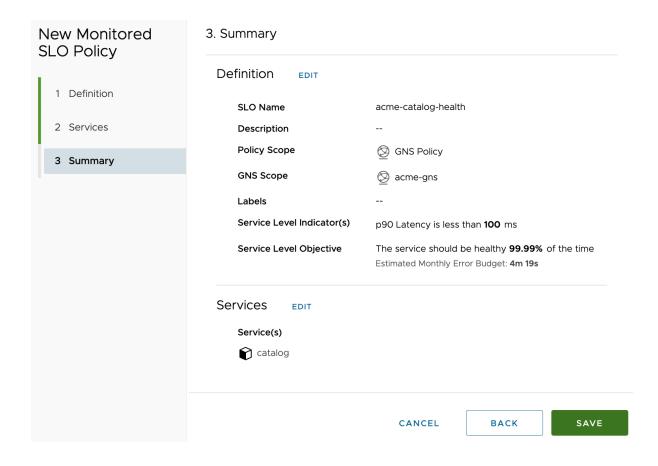


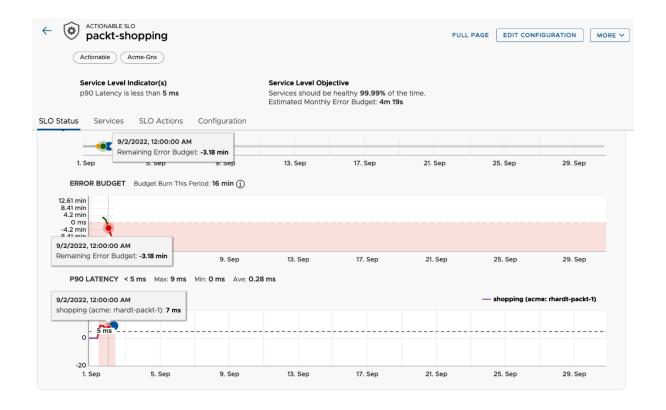


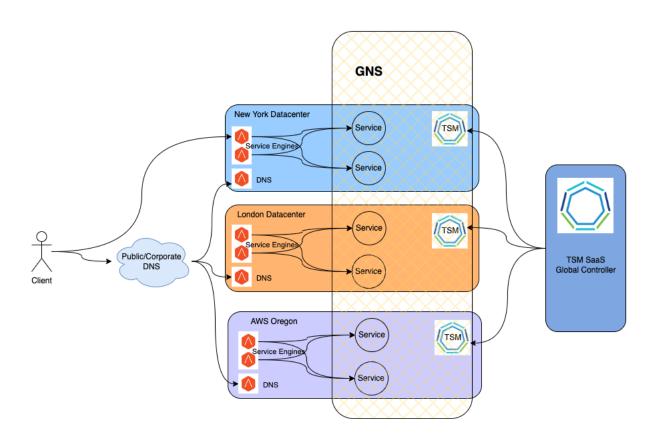












Chapter 12: Bringing It All Together

