NAME	Project URL	Comment
kai-backend	https://bitbucket.org/skillsolutiondev/backend/src	<ul> <li>including all kai studio app services in</li> <li>" launcher » directory:</li> <li>1. aoi-loadbalancer-app: loadbalancer for Azure openAl service</li> <li>2. file-manager-app</li> <li>3. instance-deployer-app: listener for table instances change event</li> <li>4. instance-manager-app</li> <li>5. organization-deployer-app: listener for table organizations change event</li> <li>6. kai-studio-resource-check</li> <li>7. organization-manager-app</li> </ul>
sdk-js	https://bitbucket.org/skillsolutiondev/sdk-js/src	open api for client to test
ui	https://bitbucket.org/skillsolutiondev/ui/src	kai-studio-app



https://supabase.com/dashboard/project/btsrniyewpsmyhogauao						
Table name	Description	Comment				
organizations	subscription_type: type of subscription, STARTER / PREMIUM / ENTERPRISE status: DRAFT / DEPLOYED / NEED_DELETED	When a new organization is inserted into database, it will be deployed automatically. ( <i>Via organization-deployer-app</i> )				
Instances	status: NEED_DEPLOY / TO_DEPLOY / DEPLOYED / TO_DELETED  api_key: api key credits: request times left for api private_ip: can have access to kai api service db_password: password to connect to postgresDB	When a new instance is inserted into database, it will be deployed automatically.( <i>Via instance-deployer-app</i> )				







Resource group name: kai-studio					
NAME	Туре				
kai-studio.ai	DNS zone				
kai-instances	Azure Database for PostgreSQL flexible server				
filestoragekaistudio	Storage account				
k8s-kaistudio	Kubernetes service				
kaistudio	Container registry				



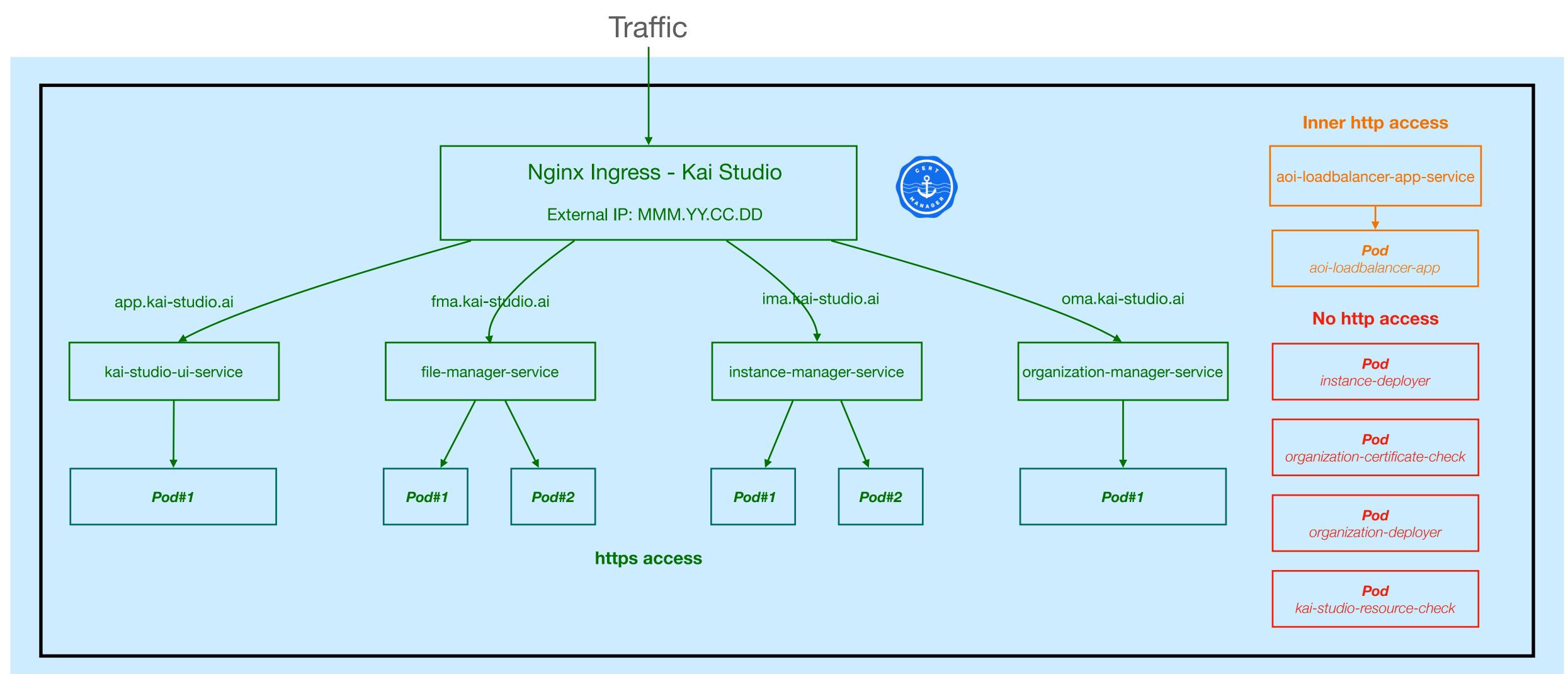
NAME	Access	CPU	RAM	Pod	IMAGE	DESCRIPTION
aoi-loadbalancer-app	internal access	250m	500Mi	1 pod	kaistudio.azurecr.io/ <b>aoi-loadbalancer</b> :{tag}	Azure OpenAl Service
file-manager-app	https://fma.kai-studio.ai	250m	500Mi	2 pods	kaistudio.azurecr.io/ <b>file-manager</b> :{tag}	File Manager
instance-deployer-app	no http access	500m	500Mi	1 pod	kaistudio.azurecr.io/instance-deployer:{tag}	Instance Deployer
instance-manager-app	https://ima.kai-studio.ai	250m	500Mi	2 pods	kaistudio.azurecr.io/instance-manager:{tag}	Instance Manager
organization-deployer-app	no http access	250m	500Mi	1 pod	kaistudio.azurecr.io/organization-deployer:{tag}	Organization Deployer
kai-studio-resource-check	no http access	250m	500Mi	1 pod	kaistudio.azurecr.io/kai-studio-resource-check:{tag}	Check KAI Studio resource on Azure periodically / once per week
kai-studio-ui-app	https://app.kai-studio.ai	250m	200Mi	1 pod	kaistudio.azurecr.io/ <b>kai-studio-ui</b> :{tag}	Front user/client app interface
organization-manager-app	https://oma.kai-studio.ai	250m	500Mi	1 pod	kaistudio.azurecr.io/organization-manager:{tag}	Organization Manager



NAME	Access	CPU	RAM	Pod	IMAGE	DESCRIPTION
instance-api-gateway	https://{c1}.kai-studio.ai	250m	500Mi	2 pod	kaistudio.azurecr.io/instance-api-gateway:{tag}	API Gateway, <b>c1</b> means its organization id.
kaiapi-\${instanceId1}	internal access	500m(request) 2000m(limit)	500Mi(request) 2000Mi(limit)	1 pod	kaistudio.azurecr.io/ <b>kaiapi</b> :{tag}	API pod
kaiapi-\${instanceId2}	internal access	500m(request) 2000m(limit)	500Mi(request) 2000Mi(limit)	1 pod	kaistudio.azurecr.io/ <b>kaiapi</b> :{tag}	API pod



## Architecture - KAI Studio

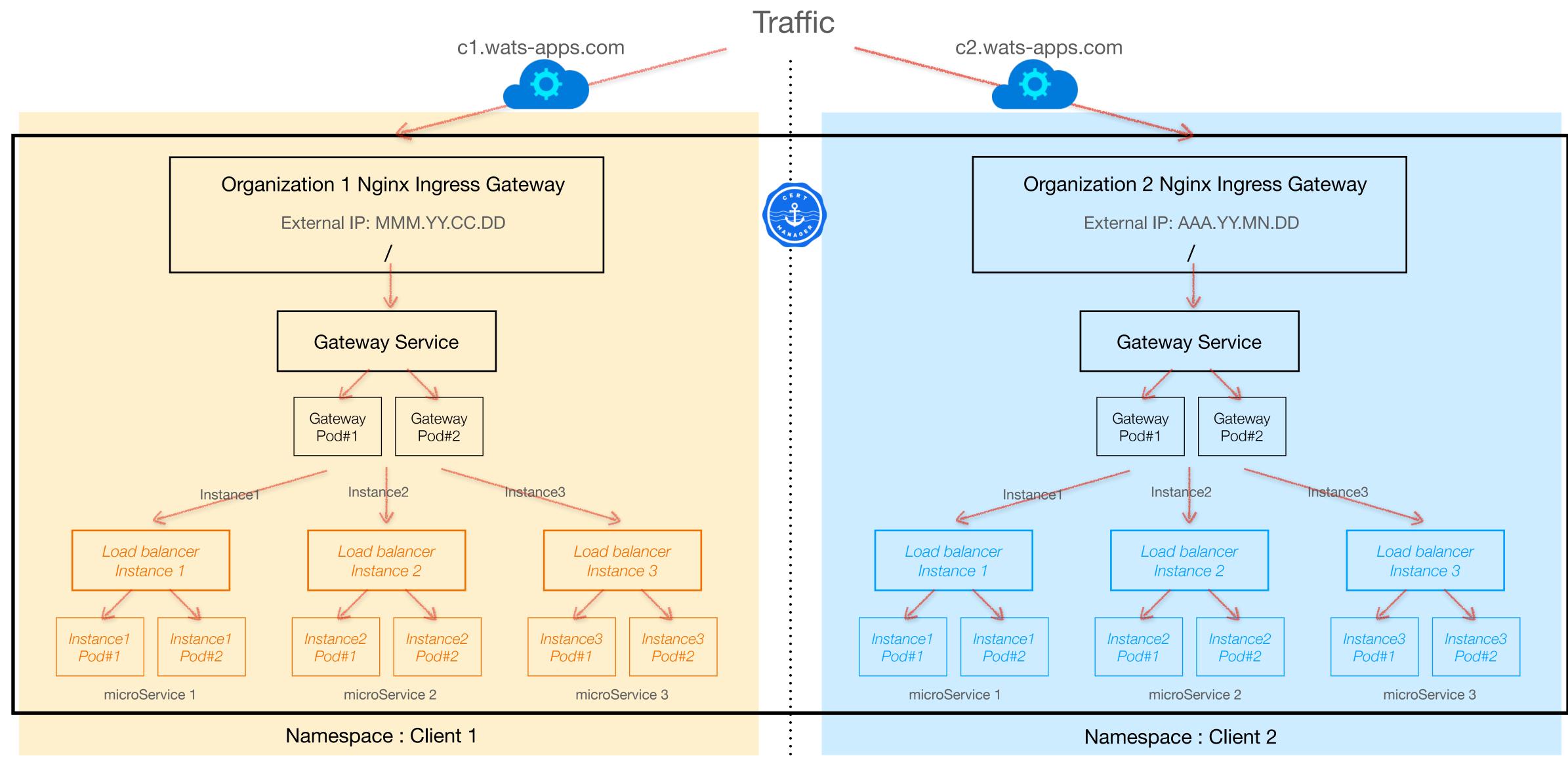


Namespace : kai-studio





## Architecture - Organization / Instance



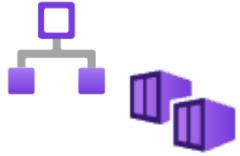




## AKS Main Steps



Create namespace by client



Create ingress/service/deployment of **Gateway**+ service/deployment of **Application**under client namespace



Register DNS + IP into Azure DNS

kubectl create namespace client-example

- kubectl apply -f example-gateway-ingress.yaml -n client-example
- kubectl apply -f example-gateway-service.yaml -n client-example
- kubectl apply -f example-gateway-deployment.yaml -n client-example
- kubectl apply -f example-instance-service.yaml -n client-example
- kubectl apply -f example-instance-deployment.yaml -n client-example

az network dns record-set a add-record...



Generate CA by cert-manager

- kubectl apply -f example-domain-cluster-issuer.yaml
- kubectl apply -f example-domain-certificate.yaml

N.B: 1 cluster just needs 1 ClusterIssuer



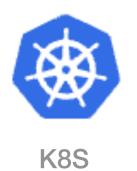


```
export MAOI_HOST=http://aoi-loadbalancer-app-service.kai-studio
export MAOI_MAX_CONSUMPTION_PER_MINUTE="'30000'"
export MAOI_MAX_TOKEN_PER_REQUEST="'8150'"
export INSTANCE_BS_ID="xxxxxx"
export INSTANCE_KBS="xxxxxx"
```



**PostgreSQL** 

```
export PG_HOST=host-example
export PG_USER=admin-example
export PG_PASS=password-example
export PG_DB=database-example
```



```
export DOCKER_SERVER=kaistudio.azurecr.io
export DOCKER_USERNAME=kaistudio
export DOCKER_PASSWORD=uF6ylKelrXS3QhOfAvly77yHglbGWQp7IMiNFvgDbV+ACRDkjeXE
export SERVICE_NAME=kaiapi-service-xxxx
export DEPLOYMENT_NAME=kaiapi-xxxx
export GATEWAY_SERVICE_NAME=gateway-service-xxxx
export INGRESS_CLASS_NAME=ingress-nginx-xxxx
```