## Contents

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We delete the existing AKS cluster setup.

## 1. In the Azure portal we navigate to our AKS cluster

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#### 2. On the \*\*Overview\*\* page we select \*\*Delete\*\*



3. On the \*\*Delete cluster confirmation\*\* page we select \*\*Delete\*\*

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The existing AKS cluster setup is now deleted

We remove the service principal

1. We remove the resource group eclipse-che, container service, and all related resources

az group delete --name eclipse-che --yes --no-wait

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Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.			^
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2. We locate the ObjectId from Enterprise Applications

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Manage	Search by application name or object ID Application	on type == Enterprise Applications ×	Application ID starts with $\times$ $+_{\nabla}$ Add filte	ers
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	DefaultResourceGroup-WEU	Resource group	13 hours ago	
	software-machines.online	DNS zone	20 hours ago	
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	NetworkWatcherRG	Resource group	a week ago	
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3. Remove the service principal cert-manager-eclipse-che by using it's ObjectId b8e0793e-claa-4d10-b2de-b8eb57f26702

az ad sp delete --id b8e0793e-c1aa-4d10-b2de-b8eb57f26702

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4. Even though Microsoft instructions are indicating that following these steps it should be enough to delete our application, we can still locate cert manager service principal and Eclipse Che instances in App Registrations.

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Note: The following Object ID is found every time in the "We will patch it."

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Troubleshooting											

So we decide to delete them also using the Azure Portal

5. Deleting existing applications.

The following operations are performed by user : kostas@ultra4ais.onmicrosoft.com

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f Starting June 30th, 2020 we will no longe	er add any new features to Azure Active Directory Authentication Library (ADAL) and Azure Active	e Directory Graph. We will continue to provide technical support and sec	urity updates but we will no long	er provide feature X
updates. Applications will need to be up	graded to Microsoft Authentication Library (MSAL) and Microsoft Graph. Learn more			
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## 6. Deleting Group: AKSAAdmins

The following operations are performed by user: <a href="mailto:kostas@ultra4ais.onmicrosoft.com">kostas@ultra4ais.onmicrosoft.com</a>

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#### b. Selecting Groups

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c. Selecting group AKSAdmins

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Now by accessing Groups we can see that AKSAdming group does not exists.

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After these steps the existing AKS cluster setup was deleted (implying also that also the DNS Zone, the NGINX, the cert-manager (i.e. the Certificate Issuer and the Certificates) have been deleted).

The remaining groups where they located still there (All Company, SoMa Developers) are without connection to any other entity except for the subscription.

**REFERENCES:** 



We install Eclipse Che on Microsoft Azure according to https://eclipse.dev/che/docs/next/administration-guide/installing-che-on-microsoft-azure/

- 1. Install Microsoft Azure CLI command line tool according to https://learn.microsoft.com/en-us/cli/azure/install-azure-cli?view=azure-cli-latest
- az version



The current version of the Azure CLI is **2.57.0**.

2. Install Helm CLI command line tool according to <a href="https://helm.sh/docs/intro/install/">https://helm.sh/docs/intro/install/</a>



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./helm version



version.BuildInfo{Version:"v3.14.2", GitCommit:"c309b6f0ff63856811846ce18f3bdc93d2b4d54b", GitTreeState:"clean", GoVersion:"go1.21.7"}

The current version of the Helm CLI is **3.14.2**.

3. Install the Kubernetes command-line tool and kubelogin, a client-go credential (exec) plugin implementing azure authentication according to https://learn.microsoft.com/en-us/cli/azure/aks?view=azure-cli-latest#az-aks-install-cli

az aks install-cli

🔀 Windows PowerShell	—	×
PS C:\Users\Kostas\windows-amd64> az aks install-cli		^
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kubectl version

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The current version of the Kubectl is **1.29.2** and kubelogin is **0.1.1**.

4. Log in to Microsoft Azure:

az login

🔀 Windows PowerShell	—	×
Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.		^
Try the new cross-platform PowerShell https://aka.ms/pscore6		
PS C:\Users\Kostas> az login		

Windows PowerShell	_		×
Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.			^
Try the new cross-platform PowerShell https://aka.ms/pscore6			
PS C:\Users\Kostas> az login A web browser has been opened at https://login.microsoftonline.com/organizations/oauth2/v2.0/authorize. the login in the web browser. If no web browser is available or if the web browser fails to open, use d ith `az loginuse-device-code`.	Please evice c	contir ode flo	iue ow w
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Azure CLI	Azure Command-Line	Interface (CLI) docum	entation	*		
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> Install, update and run a	vailable across Azure services and is designed t	to get you working quickly with Azure, with an er	nphasis on automation.	+		
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#### PS C:\Users\nickl> az login

A web browser has been opened at https://login.microsoftonline.com/organizations/oauth2/v2.0/authorize w with `az login --use-device-code`. [ \_\_\_\_\_{

```
"cloudName": "AzureCloud",
"homeTenantId": "1e6eb10c-ccbd-416a-9410-c3665d7ac07b",
"id": "a559df32-05ab-46a8-bbfe-5171eda2bbde",
"isDefault": true,
"managedByTenants": [],
"name": "Azure subscription 1",
"state": "Enabled",
"tenantId": "1e6eb10c-ccbd-416a-9410-c3665d7ac07b",
"user": {
 "name": "nikos@ultra4ais.onmicrosoft.com",
    "type": "user"
"cloudName": "AzureCloud",
"homeTenantId": "1e6eb10c-ccbd-416a-9410-c3665d7ac07b",
"id": "a69e09fb-c248-468b-acc9-e324138695fe",
"isDefault": false,
"managedByTenants": [],
"name": "Azure subscription 1",
"state": "Disabled",
"tenantId": "1e6eb10c-ccbd-416a-9410-c3665d7ac07b",
"user": {
  "name": "nikos@ultra4ais.onmicrosoft.com",
  "type": "user"
```
#### 5. Create a resource group

az group create --name eclipse-che --location italynorth



```
"user": {
    "name": "kostas@ultra4ais.onmicrosoft.com",
    "type": "user"
    }
}
```



{

```
"id": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourceGroups/eclipse-che",
"location": "italynorth",
"managedBy": null,
"name": "eclipse-che",
"properties": {
    "provisioningState": "Succeeded"
},
"tags": null,
```

```
"type": "Microsoft.Resources/resourceGroups"
}
```

### 6. Create a cluster admins group named AKSAdmins

az ad group create --display-name AKSAdmins --mail-nickname AKSAdmins



```
C:\Users\nickl> az group create --name eclipse-che --location italynorth
  "id": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourceGroups/eclipse-che",
  "location": "italynorth",
"managedBy": null,
   "name": "eclipse-che",
  "properties": {
     "provisioningState": "Succeeded"
  },
"tags": null,
"type": "Microsoft.Resources/resourceGroups"
"type": "Microsoft.Resources/resourceGroups"
PS C:\Users\nickl> az ad group create --display-name AKSAdmins --mail-nickname AKSAdmins
  "@odata.context": "https://graph.microsoft.com/v1.0/$metadata#groups/$entity",
 "gooata.context : netp=///g ;
"classification": null,
"createdDateTime": "2024-03-22T12:08:54Z",
"creationOptions": [],
  "deletedDateTime": null,
  "description": null,
"displayName": "AKSAdmins",
  "expirationDateTime": null,
  "groupTypes": [],
"id": "21e2a141-cef3-4097-be65-299a26fdef66",
  "isAssignableToRole": null,
 "mail": null,
"mailEnabled": false,
"mailNickname": "AKSAdmins",
  "mailwickname : AkSAumins ,
"membershipRule": null,
"membershipRuleProcessingState": null,
  "onPremisesDomainName": null,
  "onPremisesLastSyncDateTime": null,
  "onPremisesNetBiosName": null,
"onPremisesProvisioningErrors": [],
  "onPremisesSamAccountName": null,
  "onPremisesSecurityIdentifier": null,
  "onPremisesSyncEnabled": null,
  "preferredDataLocation": null,
 "preferredLanguage": null,
"proxyAddresses": [],
"renewedDateTime": "2024-03-22T12:08:54Z",
  "resourceBehaviorOptions": [],
"resourceProvisioningOptions": [],
  "securityEnabled": true,
"securityIdentifier": "S-1-12-1-568500545-1083690739-2586404286-1727003942",
  "serviceProvisioningErrors": [],
 "theme": null,
"uniqueName": null,
"visibility": null
```

{

"@odata.context": "https://graph.microsoft.com/v1.0/\$metadata#groups/\$entity", "classification": null.

"createdDateTime": "2024-03-22T12:08:54Z",

"creationOptions": [],

"deletedDateTime": null,

"description": null,

"displayName": "AKSAdmins",

"expirationDateTime": null,

"groupTypes": [],

## "id": "21e2a141-cef3-4097-be65-299a26fdef66",

"isAssignableToRole": null,

"mail": null,

"mailEnabled": false,

"mailNickname": "AKSAdmins", "membershipRule": null, "membershipRuleProcessingState": null, "onPremisesDomainName": null, "onPremisesLastSyncDateTime": null, "onPremisesNetBiosName": null, "onPremisesProvisioningErrors": [], "onPremisesSamAccountName": null, "onPremisesSecurityIdentifier": null, "onPremisesSyncEnabled": null, "preferredDataLocation": null, "preferredLanguage": null, "proxyAddresses": [], "renewedDateTime": "2024-03-22T12:08:54Z", "resourceBehaviorOptions": [], "resourceProvisioningOptions": [], "securityEnabled": true, "securityIdentifier": "S-1-12-1-568500545-1083690739-2586404286-1727003942", "serviceProvisioningErrors": [], "theme": null, "uniqueName": null, "visibility": null }

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7. Add the current user to the cluster admins group

az ad signed-in-user show --query id --output tsv

2 Windows PowerShell	_	$\times$
"id": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourceGroups/eclipse-che",	1	~
"location": "italynorth",		
"managedBy": null,		
"name": "eclipse-che",		
"properties": {		
"provisioningState": "Succeeded"		
},		
"tags": null,		
"type": "Microsoft.Resources/resourceGroups"		
}		
PS C:\Users\Kostas> az ad group createdisplay-name AKSAdminsmail-nickname AKSAdmins		
{		
"@odata.context": "https://graph.microsoft.com/v1.0/\$metadata#groups/\$entity",		
"classification": null,		
"createdDateTime": "2024-03-13T06:57:45Z",		
"creationOptions": [],		
"deletedDateTime": null,		
"description": null,		
"displayName": "AKSAdmins",		
"expirationDateTime": null,		
"groupTypes": [],		
"id": "959184b8- <del>f</del> 544-458e-881a-7c5d7de668d2",		
"isAssignableToRole": null,		
"mail": null,		
"mailEnabled": false,		
"mailNickname": "AKSAdmins",		
"membershipRule": null,		
"membershipRuleProcessingState": null,		
"onPremisesDomainName": null,		
"onPremisesLastSyncDateTime": null,		
"onPremisesNetBiosName": null,		
"onPremisesProvisioningErrors": [],		
"onPremisesSamAccountName": null,		
"onPremisesSecurityIdentifier": null,		
"onPremisesSyncEnabled": null,		
"preferredDataLocation": null,		
"preterredLanguage": null,		
"proxyAdaresses": [],		
"reneweduatelime": "2024-03-13106:57:452",		
resourcebenavioroptions: [],		
<pre>"resourceProvisionIngUptions": [], "resourceProvisionIngUptions": [],</pre>		
"securitythapied": true, Normalizithapicianti, N.S. 4 42 1 200244000 110000004 1500444344 2520004000		
SecurityIdentifier: 5-1-12-1-2509541860-1100990604-1506414544-5550090109",		
structure ovisioning (rors : [],		
Unitiality and		
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rs critesers (Kostas) az au signed-in-user snowquery idoutput isv		
		× ×

## 0d4312c8-52ca-4b68-a62f-68f7391a323d (User Nick)

(for user Kostas Tzerras the command above delivers f52308d5-3502-43da-afc4-fd0a17791391)

az ad group member add --group AKSAdmins --member-id **f52308d5-3502-43da-afc4**-**fd0a17791391** 

🔰 Windows PowerShell	—	$\times$
"location": "italynorth",		^
"managedBy": null,		
"name": "eclipse-che",		
"properties": {		
"provisioningstate": "Succeeded"		
Lags : Huily "type", "Microsoft Desources/resourceSpours"		
, PS C:\Users\Kostas> az ad group createdisplay-name AKSAdminsmail-nickname AKSAdmins		
"@odata.context": "https://graph.microsoft.com/v1.0/\$metadata#groups/\$entity".		
"classification": null.		
"createdDateTime": "2024-03-13T06:57:45Z",		
"creationOptions": [],		
"deletedDateTime": null,		
"description": null,		
"displayName": "AKSAdmins",		
"expirationDateTime": null,		
"groupTypes": [],		
"id": "959184b8-f544-458e-881a-7c5d7de668d2",		
"isAssignableToRole": null,		
"mail": null,		
"mailEnabled": false,		
"mailNickname": "AKSAdmins",		
"membershipRule": null,		
"membershipkulerocessingstate": null,		
"onPremisesDomainwame": null,		
"on PremisesLastSyncDatelime : null,		
onPremisesNetDioSName : null,		
"noPremisesSametcourtemane , null,		
"noPremisesSyncFnabled"; null.		
"referredDatalocation"; null.		
"preferredLanguage": null.		
"proxyAddresses": [].		
"renewedDateTime": "2024-03-13T06:57:45Z",		
"resourceBehaviorOptions": [],		
"resourceProvisioningOptions": [],		
"securityEnabled": true,		
"securityIdentifier": "S-1-12-1-2509341880-1166996804-1568414344-3530090109",		
"serviceProvisioningErrors": [],		
"theme": null,		
"visibility": null		
3		
PS C:\Users\Kostas> az ad signed-in-user showquery idoutput tsv		
+52308d5-3502-43da-a+c4-+d0a1//91391		
PS C:\Users\Kostas> az ad group member addgroup AKSAdminsmember-id +52308d5-3502-43da-afc4-fd0a17	791391	
PS L: (Users Kostas)		×



az ad group member add --group AKSAdmins --member-id 0d4312c8-52ca-4b68-a62f-68f7391a323d

🔀 Windows PowerShell \_ Х "managedBy": null, "name": "eclipse-che", "properties": { "provisioningState": "Succeeded" PS C:\Users\Kostas> az ad group create --display-name AKSAdmins --mail-nickname AKSAdmins "@odata.context": "https://graph.microsoft.com/v1.0/\$metadata#groups/\$entity", "classification": null, "createdDateTime": "2024-03-13T06:57:45Z", "creationOptions": [], "deletedDateTime": null, "description": null, "displayName": "AKSAdmins", "expirationDateTime": null, "groupTypes": [], "id": "959184b8-f544-458e-881a-7c5d7de668d2", "isAssignableToRole": null, "mail": null, "mailEnabled": false, "mailNickname": "AKSAdmins", "membershipRule": null, "membershipRuleProcessingState": null, "onPremisesDomainName": null, "onPremisesLastSyncDateTime": null, "onPremisesNetBiosName": null, "onPremisesProvisioningErrors": [], "onPremisesSamAccountName": null, "onPremisesSecurityIdentifier": null, "onPremisesSecurityIdentifier" "onPremisesSyncEnabled": null, "preferredDataLocation": null, "preferredLanguage": null, "proxyAddresses": [], "renewedDateTime": "2024-03-13T06:57:45Z", "resourceBehaviorOptions": [],
"resourceProvisioningOptions": [], "securityEnabled": true, "securityInabled": true, "securityIdentifier": "S-1-12-1-2509341880-1166996804-1568414344-3530090109", "serviceProvisioningErrors": [], "theme": null, "visibility": null PS C:\Users\Kostas> az ad signed-in-user show --query id --output tsv f52308d5-3502-43da-afc4-fd0a17791391 PS C:\Users\Kostas> az ad group member add --group AKSAdmins --member-id f52308d5-3502-43da-afc4-fd0a17791391 PS C:\Users\Kostas> az ad group member add --group AKSAdmins --member-id 0d4312c8-52ca-4b68-a62f-68f7391a323d PS C:\Users\Kostas≻



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Audit logs	Name ↑↓	Object Id Group Type	Membership Type	Email	Source	+
Sign-in logs	A AKSAdmins	959184b8-f544-458e-881a-7c Security	Assigned		Cloud	
🗙 Diagnose and solve problems	SoMa Developers	656ccce3-4894-4ac3-8f26-b04 Security	Assigned		Cloud	
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$\equiv$ Microsoft Azure	오 Searc	h resources, services, and docs (G+/)			ပူ 🔅 ဤ ဂုံ႕ nikos@uitra4ais ultra4 advanced i	
Home > AKSAdmins						
AKSAdmins   Meml	bers					×
Group						
Overview	+ Add members X Remove	Refresh     Bulk operations      I == Colun	ins R Got feedback?			
🗙 Diagnose and solve problems	Direct members All members					
Manage	Search by name	+ Add filters				
Properties	Name	↑↓ Ivpe	Email		User type	
A Members	KT Kostas Tzerras	liser			Member	
A Owners	Nick	licer			Member	
& Roles and administrators	I I I I I I I I I I I I I I I I I I I	USEI .			Weinber	
Administrative units						
Group memberships						

# 8. Create the Microsoft Entra integrated cluster

az ad group list --query "[?displayName=='AKSAdmins'].id" --output tsv

PS C:\Users\nickl> az ad group createdisplay-name AKSAdminsmai	l-nickname AKSAdmins
	<i>(</i> <b>/ , , , , )</b>
<pre>"@odata.context": "https://graph.microsoft.com/v1.0/\$metadata#group""""""""""""""""""""""""""""""""""""</pre>	ps/\$entity",
"classification": null,	
"createdDatelime": "2024-03-22112:08:542",	
"creationOptions": [],	
"deletedDateTime": null,	
"description": null,	
"displayName": "AKSAdmins",	
"expirationDateTime": null,	
"groupTypes": [],	
"id": "21e2a141-cef3-4097-be65-299a26fdef66",	
"isAssignableToRole": null,	
"mail": null,	
"mailEnabled": false,	
"mailNickname": "AKSAdmins",	
"membershipRule": null,	
"membershipRuleProcessingState": null,	
"onPremisesDomainName": null,	
"onPremisesLastSyncDateTime": null,	
"onPremisesNetBiosName": null,	
"onPremisesProvisioningErrors": [],	
"onPremisesSamAccountName": null.	
"onPremisesSecurityIdentifier": null,	
"onPremisesSyncEnabled": null.	
"preferredDataLocation": null.	
"preferredLanguage": null.	
"proxvAddresses": [].	
"renewedDateTime": "2024-03-22T12:08:547".	
"resourceBehaviorOptions": [].	
"resourceProvisioningOptions": [].	
"securityEnabled": true.	
"securityIdentifier": "\$-1-12-1-568500545-1083690739-2586404286-17	27003942"
"serviceProvisioningFrons": []	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
"theme"· null	
"uniqueName", pull	
"visibility". null	
, S (.)Users\nickl\ az ad signed_in_user showquery idoutput tsy	
3/13/278-5279-1668-2624-68473912323d	
$S(\cdot)$ (keps) nick) az ad group member addgroup AKSAdminsmember	id 0d/312c8-52ca-/b68-a62f-68f7391a323d
S C: (Usens (hick) az ad group member add - group AKSAdmins - member	id f52308d5 3502 A3da afc4 fd0a17701301
C. (Usens (hick) az au group member audgroup Aksauminsmember	-10 15250005-5502-450a-a104-100a17791591
S C. (Usens (hick))	
- C. (Users (HICKI)	
PS (:)//sons/nickly	
PS C: USERS (HICKI)	oc'l id" output toy
1-2-2141 cof2 4007 bocc 200o26fdof66	is j.iuoutput <b>tsv</b>
2102a141-C0T5-4097-D005-299820T00100	
S C. MSEPS MILCKIZ	

## 21e2a141-cef3-4097-be65-299a26fdef66

az aks create --resource-group eclipse-che --name eclipse-che --enable-aad --aad-admin-group-object-ids 21e2a141-cef3-4097-be65-299a26fdef66--generatessh-keys

```
S C:\Users\nickl> az aks create -
                                                                     pup eclipse-che
                                                                                              --name eclinse-che
                                                                                                                                       aad
The behavior of this command has been altered by the following extension: aks-preview
  "aadProfile": {
"adminGroupObjectIDs": [
        "21e2a141-cef3-4097-be65-299a26fdef66"
     ],
"adminUsers": null,
"clientAppId": null,
      "enableAzureRbac": false,
      "managed": true,
     "serverAppId": null,
     "serverAppSecret": null,
     "tenantId": "1e6eb10c-ccbd-416a-9410-c3665d7ac07b"
  },
"addonProfiles": null,
"agentPoolProfiles": [
        "artifactStreamingProfile": null,
        "availabilityZones": null,
        "capacityReservationGroupId": null,
        "count": 3,
"creationData": null,
"currentOrchestratorVersion": "1.27.9",
        "enableAutoScaling": false,
"enableCustomCaTrust": false,
        "enableCustomCarrost : raise,
"enableEncryptionAtHost": false,
"enableFips": false,
"enableNodePublicIp": false,
"enableUltraSsd": false,
"gpuInstanceProfile": null,
        gpuProfile: nul,
"gpuProfile": null,
"hostGroupId": null,
"kubeletConfig": null,
"kubeletDiskType": "OS",
"liewoGccfi", unll,
        "linuxOsConfig": null,
        "maxCount": null,
"maxPods": 110,
        "messageOfTheDay": null,
        "minCount": null,
"mode": "System",
"name": "nodepool1",
        "networkProfile": {
    "allowedHostPorts": null,
           "applicationSecurityGroups": null,
           "nodePublicIpTags": null
        },
"nodeImageVersion": "AKSUbuntu-2204gen2containerd-202403.04.0",
"
        "nodeInitializationTaints": null,
        "nodeLabels": null
```

The behavior of this command has been altered by the following extension: aks-preview

```
{
    "aadProfile": {
        "adminGroupObjectIDs": [
        "21e2a141-cef3-4097-be65-299a26fdef66"
    ],
        "adminUsers": null,
        "clientAppId": null,
        "enableAzureRbac": false,
        "managed": true,
        "serverAppId": null,
        "serverAppId": null,
        "serverAppSecret": null,
        "tenantId": "1e6eb10c-ccbd-416a-9410-c3665d7ac07b"
    },
        "addonProfiles": null,
        "agentPoolProfiles": [
```

{

"artifactStreamingProfile": null, "availabilityZones": null, "capacityReservationGroupId": null, "count": 3, "creationData": null, "currentOrchestratorVersion": "1.27.9", "enableAutoScaling": false, "enableCustomCaTrust": false, "enableEncryptionAtHost": false, "enableFips": false, "enableNodePublicIp": false, "enableUltraSsd": false, "gpuInstanceProfile": null, "gpuProfile": null, "hostGroupId": null, "kubeletConfig": null, "kubeletDiskType": "OS", "linuxOsConfig": null, "maxCount": null, "maxPods": 110, "messageOfTheDay": null, "minCount": null, "mode": "System", "name": "nodepool1", "networkProfile": { "allowedHostPorts": null, "applicationSecurityGroups": null, "nodePublicIpTags": null }, "nodelmageVersion": "AKSUbuntu-2204gen2containerd-202403.04.0", "nodelnitializationTaints": null, "nodeLabels": null, "nodePublicIpPrefixId": null, "nodeTaints": null, "orchestratorVersion": "1.27.9", "osDiskSizeGb": 128, "osDiskType": "Managed", "osSku": "Ubuntu", "osType": "Linux", "podSubnetId": null, "powerState": { "code": "Running" },

```
"provisioningState": "Succeeded",
  "proximityPlacementGroupId": null,
  "scaleDownMode": null,
  "scaleSetEvictionPolicy": null,
  "scaleSetPriority": null,
  "securityProfile": {
   "sshAccess": "LocalUser"
  },
  "spotMaxPrice": null,
  "tags": null,
  "type": "VirtualMachineScaleSets",
  "upgradeSettings": {
   "drainTimeoutInMinutes": null,
   "maxSurge": null,
   "nodeSoakDurationInMinutes": null
  },
  "virtualMachineNodesStatus": null,
  "virtualMachinesProfile": null,
  "vmSize": "Standard_DS2_v2",
  "vnetSubnetId": null,
  "windowsProfile": null,
  "workloadRuntime": "OCIContainer"
}
],
"aiToolchainOperatorProfile": null,
"apiServerAccessProfile": null,
"autoScalerProfile": null,
"autoUpgradeProfile": {
 "nodeOsUpgradeChannel": "NodeImage",
 "upgradeChannel": null
},
"azureMonitorProfile": null,
"azurePortalFqdn": "eclipse-ch-eclipse-che-a559df-1dgg56uy.portal.hcp.italynorth.azmk8s.io",
"creationData": null,
"currentKubernetesVersion": "1.27.9",
"disableLocalAccounts": false,
"diskEncryptionSetId": null,
"dnsPrefix": "eclipse-ch-eclipse-che-a559df",
"enableNamespaceResources": null,
"enablePodSecurityPolicy": false,
"enableRbac": true,
"extendedLocation": null,
"fqdn": "eclipse-ch-eclipse-che-a559df-1dqq56uy.hcp.italynorth.azmk8s.io",
```

```
"fqdnSubdomain": null,
```

```
"guardrailsProfile": null,
 "httpProxyConfig": null,
 "id": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourcegroups/eclipse-che/
providers/Microsoft.ContainerService/managedClusters/eclipse-che",
 "identity": {
  "delegatedResources": null,
  "principalld": "2e7407ce-2d20-47bb-b791-3624e632e9d3",
  "tenantld": "1e6eb10c-ccbd-416a-9410-c3665d7ac07b",
  "type": "SystemAssigned",
  "userAssignedIdentities": null
 },
 "identityProfile": {
  "kubeletidentity": {
   "clientId": "4863d2f9-aad1-4ed0-9c7f-1c2a9d8974f9",
   "objectId": "467e9901-706f-411c-8f16-fab38d7b6391",
   "resourceId": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourcegroups/
MC_eclipse-che_eclipse-che_italynorth/providers/Microsoft.ManagedIdentity/
userAssignedIdentities/eclipse-che-agentpool"
  }
 },
 "ingressProfile": null,
 "kubernetesVersion": "1.27",
 "linuxProfile": {
  "adminUsername": "azureuser",
  "ssh": {
   "publicKeys": [
    {
      "keyData": "ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAABAQC2A0IBDsFQI+7+nukU0P+5fwHUqsh3QGcWE3RLWHE
gYxGQRQfNykAEYphWLGcB8CugxgKZ/
FttniH5sDZkbnSeoKn8ymmXZ5AU+SezicTtssTs3okPfM0T7FI0L8XZOXeOzyKETBEWOr+Ie2CniUh
dngI1RILWnN7RIr0ThzwH8jTR9B78ackx5jfVQHyrVOym7ZZKTIPe0TYkH5UV3JWrSWSdyRFCISGRr
82FKJ3zsP5+TBBdbh4+7KtEKKswOWYVeoHVOwTFoU1zJOZfvQmdBz6uyt270bll3lsQECLqsIpAwt
kxYKvVYer+sLBztOM60iEGqVxnXWw4uc2H7oHz"
    }
   ]
  }
 },
 "location": "italynorth",
 "maxAgentPools": 100,
 "metricsProfile": {
  "costAnalysis": {
```

```
"enabled": false
}
```

```
},
 "name": "eclipse-che",
 "networkProfile": {
  "dnsServicelp": "10.0.0.10",
  "ipFamilies": [
   "IPv4"
  ],
  "kubeProxyConfig": null,
  "loadBalancerProfile": {
   "allocatedOutboundPorts": null,
   "backendPoolType": "nodelPConfiguration",
   "effectiveOutboundIPs": [
    {
      "id": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourceGroups/
MC_eclipse-che_eclipse-che_italynorth/providers/Microsoft.Network/publicIPAddresses/
5203ae07-0870-486a-9946-344e06d82c5e",
      "resourceGroup": "MC_eclipse-che_eclipse-che_italynorth"
    }
   ],
   "enableMultipleStandardLoadBalancers": null,
   "idleTimeoutInMinutes": null,
   "managedOutboundIPs": {
     "count": 1,
     "countlpv6": null
   },
   "outboundIPs": null,
   "outboundIpPrefixes": null
  },
  "loadBalancerSku": "Standard",
  "monitoring": null,
  "natGatewayProfile": null,
  "networkDataplane": null,
  "networkMode": null,
  "networkPlugin": "kubenet",
  "networkPluginMode": null,
  "networkPolicy": "none",
  "outboundType": "loadBalancer",
  "podCidr": "10.244.0.0/16",
  "podCidrs": [
   "10.244.0.0/16"
  1,
  "serviceCidr": "10.0.0/16",
  "serviceCidrs": [
   "10.0.0/16"
```

```
]
},
"nodeProvisioningProfile": {
 "mode": "Manual"
},
"nodeResourceGroup": "MC_eclipse-che_eclipse-che_italynorth",
"nodeResourceGroupProfile": null,
"oidclssuerProfile": {
 "enabled": false,
 "issuerUrl": null
},
"podIdentityProfile": null,
"powerState": {
 "code": "Running"
},
"privateFqdn": null,
"privateLinkResources": null,
"provisioningState": "Succeeded",
"publicNetworkAccess": null,
"resourceGroup": "eclipse-che",
"resourceUid": "65fd7bada43cf20001bf5e1b",
"securityProfile": {
 "azureKeyVaultKms": null,
 "customCaTrustCertificates": null,
 "defender": null,
 "imageCleaner": null,
 "imageIntegrity": null,
 "nodeRestriction": null,
 "workloadIdentity": null
},
"serviceMeshProfile": null,
"servicePrincipalProfile": {
 "clientId": "msi",
 "secret": null
},
"sku": {
 "name": "Base",
 "tier": "Free"
},
"storageProfile": {
 "blobCsiDriver": null,
 "diskCsiDriver": {
  "enabled": true,
  "version": "v1"
```

```
},
  "fileCsiDriver": {
    "enabled": true
  },
  "snapshotController": {
    "enabled": true
  }
 },
 "supportPlan": "KubernetesOfficial",
 "systemData": null,
 "tags": null,
 "type": "Microsoft.ContainerService/ManagedClusters",
 "upgradeSettings": null,
 "windowsProfile": null,
 "workloadAutoScalerProfile": {
  "keda": null,
  "verticalPodAutoscaler": null
 }
}
```

#### 9. Get the user credentials to access your cluster

```
az aks get-credentials --resource-group eclipse-che --name eclipse-che -- admin
```

PS C:\Users\nickl> az aks get-credentials --resource-group eclipse-che --name eclipse-che --admin
The behavior of this command has been altered by the following extension: aks-preview
A different object named eclipse-che already exists in your kubeconfig file.
Overwrite? (y/n): y
A different object named clusterAdmin\_eclipse-che\_eclipse-che already exists in your kubeconfig file.
Overwrite? (y/n): y
Merged "eclipse-che-admin" as current context in C:\Users\nickl\.kube\config
PS C:\Users\nickl>

### 10. Set kubelogin to use the Microsoft Azure CLI

```
kubelogin convert-kubeconfig -l azurecli
```

PS C:\Users\nickl> az aks get-credentials --resource-group eclipse-che --name eclipse-che --admin
The behavior of this command has been altered by the following extension: aks-preview
A different object named eclipse-che already exists in your kubeconfig file.
Overwrite? (y/n): y
A different object named clusterAdmin\_eclipse-che\_eclipse-che already exists in your kubeconfig file.
Overwrite? (y/n): y
Merged "eclipse-che-admin" as current context in C:\Users\nickl\.kube\config
PS C:\Users\nickl> kubelogin convert-kubeconfig -1 azurecli
PS C:\Users\nickl>

### 11. View the pods in the cluster

kubectl get pods --all-namespaces

PS C:\Users\r	nickl> az aks get-credentialsresour	ce-group	eclipse-cl	nename eo	clipse-cheadmin
The behavior	of this command has been altered by t	he follo	wing extens	sion: aks-p	review
A different d	bject named eclipse-che already exist	s in you	r kubeconfi	ig file.	
Overwrite? (y	//n): y				
A different o	bject named clusterAdmin_eclipse-che_	eclipse-	che already	/ exists in	your kubeconfig file.
Overwrite? (y	//n): y				
Merged "eclip	ose-che-admin" as current context in C	:\Users\	nickl\.kube	e\config	
PS C:\Users\r	<pre>iickl&gt; kubelogin convert-kubeconfig -1</pre>	azurecl	i		
PS C:\Users\r	nickl> kubectl get podsall-namespace	es			
NAMESPACE	NAME	READY	STATUS	RESTARTS	AGE
kube-system	azure-ip-masq-agent-5rccc	1/1	Running	0	16m
kube-system	azure-ip-masq-agent-8n85x	1/1	Running	0	11m
kube-system	azure-ip-masq-agent-g5z5h	1/1	Running	0	16m
kube-system	cloud-node-manager-6lwhd	1/1	Running	0	16m
kube-system	cloud-node-manager-71xxx	1/1	Running	0	16m
kube-system	cloud-node-manager-spjd2	1/1	Running	0	11m
kube-system	coredns-789789675-6j8pb	1/1	Running	0	15m
kube-system	coredns-789789675-nq6s5	1/1	Running	0	16m
kube-system	coredns-autoscaler-649b947bbd-jqlcw	1/1	Running	0	16m
kube-system	csi-azuredisk-node-6hbz9	3/3	Running	0	11m
kube-system	csi-azuredisk-node-75qwk	3/3	Running	0	16m
kube-system	csi-azuredisk-node-75x6z	3/3	Running	0	16m
kube-system	csi-azurefile-node-5m4mb	3/3	Running	0	11m
kube-system	csi-azurefile-node-ghx8f	3/3	Running	0	16m
kube-system	csi-azurefile-node-npmkm	3/3	Running	0	16m
kube-system	konnectivity-agent-7c76c8f994-5bmhh	1/1	Running	0	16m
kube-system	konnectivity-agent-7c76c8f994-hv7qz	1/1	Running	0	16m
kube-system	kube-proxy-fzrdd	1/1	Running	0	16m
kube-system	kube-proxy-s4ld6	1/1	Running	0	16m
kube-system	kube-proxy-wh2zx	1/1	Running	0	11m
kube-system	metrics-server-5897c748b8-81sv2	2/2	Running	0	9m16s
kube-system	metrics-server-5897c748b8-sjg4x	2/2	Running	0	9m16s
PS C:\Users\r	nickl>				

12. Install NGINX Ingress Controller

#### cd C:\Users\Kostas\windows-amd64

./helm repo add ingress-nginx <a href="https://kubernetes.github.io/ingress-nginx">https://kubernetes.github.io/ingress-nginx</a>



## "ingress-nginx" has been added to your repositories

./helm repo update



Hang tight while we grab the latest from your chart repositories...

...Successfully got an update from the "ingress-nginx" chart repository

...Successfully got an update from the "gitea-charts" chart repository Update Complete. \*Happy Helming!\*

./helm install ingress-nginx ingress-nginx/ingress-nginx --wait --createnamespace --namespace ingress-nginx --set controller.service.annotations."service\.beta\.kubernetes\.io/azure-loadbalancer-health-probe-request-path"=/healthz

5 C:\Users\nickl\windows-amd64> ./helm install ingress-nginx ingress-nginx/ingress-nginx ingr probe-request-path"=/healthz NAME: ingress-nginx LAST DEPLOYED: Fri Mar 22 14:59:52 2024 NAMESPACE: ingress-nginx STATUS: deployed REVISION: 1 TEST SUITE: None NOTES: The ingress-nginx controller has been installed. It may take a few minutes for the load balancer IP to be available. You can watch the status by running 'kubectl get service --namespace ingress-nginx ingress-nginx-controller --output wide --watch' An example Ingress that makes use of the controller: apiVersion: networking.k8s.io/v1 kind: Ingress metadata: name: example namespace: foo spec: ingressClassName: nginx rules: - host: www.example.com http: paths: - pathType: Prefix backend: service: name: exampleService port: number: 80 path: / # This section is only required if TLS is to be enabled for the Ingress tls: - hosts: www.example.com secretName: example-tls If TLS is enabled for the Ingress, a Secret containing the certificate and key must also be provided: apiVersion: v1 kind: Secret metadata: name: example-tls namespace: foo data: tls.crt: <base64 encoded cert> tls.key: <base64 encoded key> type: kubernetes.io/tls S C:\Users\nickl\windows-amd64>

NAME: ingress-nginx LAST DEPLOYED: Fri Mar 22 14:59:52 2024 NAMESPACE: ingress-nginx STATUS: deployed REVISION: 1 TEST SUITE: None NOTES: The ingress-nginx controller has been installed. It may take a few minutes for the load balancer IP to be available. You can watch the status by running 'kubectl get service --namespace ingress-nginx ingressnginx-controller --output wide --watch'

An example Ingress that makes use of the controller: apiVersion: networking.k8s.io/v1

```
kind: Ingress
metadata:
 name: example
 namespace: foo
spec:
 ingressClassName: nginx
 rules:
  - host: www.example.com
   http:
    paths:
     - pathType: Prefix
       backend:
        service:
         name: exampleService
         port:
           number: 80
       path: /
 # This section is only required if TLS is to be enabled for the Ingress
 tls:
  - hosts:
   - www.example.com
   secretName: example-tls
```

If TLS is enabled for the Ingress, a Secret containing the certificate and key must also be provided:

```
apiVersion: v1
kind: Secret
metadata:
name: example-tls
namespace: foo
data:
tls.crt: <base64 encoded cert>
tls.key: <base64 encoded key>
type: kubernetes.io/tls
```

13. Inspect NGINX Ingress Controller Config Map

kubectl describe configmap -n ingress-nginx

赵 Windows I	PowerShell							_		<
PS C:\Users\n	nickl\windo	ws-amd64> <mark>kubec</mark>	<mark>tl</mark> describe c	onfigmap -n i	ngress-nginx					1
Name:	ingress-n	ginx-controller								
Namespace:	ingress-n	ginx								
Labels:	app.kuber	netes.io/compon	ent=controlle	in .						
	app.kuberi	netes.io/instan	ce=ingress-ng	inx						
	app.kuberi	netes.io/manage	d-by=Helm							
	app.kuberi	netes.io/name=i	ngress-nginx							
	app.kuberi	netes.io/part-o	t=ingress-ngi	.nx						
	app.kuberi	netes.10/vers10	n=1.10.0							
A	neim.sn/ci	nart=ingress-ng	1nx-4.10.0							
Annotations:	meta.neim	.sn/release-nam	e: Ingress-ng							
	meta.neim	.sn/release-nam	espace: ingre	iss-ngrnx						
Data										
allow-snippet 	t-annotatio	ns:								
false										
BinaryData										
====										
Events:										
Type Rea	ason Age	From		Message						
Normal CRE	EATE 6m28s	nginx-ingress	-controller	ConfigMap ingre	ess-nginx/ing	ess-nginx-cont	roller			
Name:	kube-root	-ca.crt								
Namespace:	ingress-n	ginx								
Labels:	<none></none>									
Annotations:	kubernete	s.io/descriptio	n:							
the internal	Contains l service I	s a CA bundle t P or kubern	hat can be us	ed to verify t	he kube-apiser	rver when using	internal e	endpoint	ts such a	s
рата										
and a state of the										
ca.crt:										
Ca.crt:  BEGIN CE	ERTTETCATE									
ca.crt:  BEGIN CE	ERTIFICATE		muSiANBakabki							
ca.crt:  MIIE6DCCAtCgA	ERTIFICATE- AwIBAgIQLHSI	 rCpWQfRF8+w3F9t wNDAzMityMit4NT	muSjANBgkqhki	.G9w0BAQsFADAN						
ca.crt:  MIIE6DCCAtCgA MQswCQYDVQQDE	ERTIFICATE- AwIBAgIQLHS EwJjYTAgFwØy	 rCpWQfRF8+w3F9t yNDAzMjIxMjI4NT iMAGCSaCSTb3DO	muSjANBgkqhki NaGA8yMDU0MDM EBAQUAAATCDwA	G9w0BAQsFADAN lyMjEyMzg1M1ow						
ca.crt:  MIIE6DCCAtCgA MQswCQYDVQQDE DTELMAkGA1UEA meHeui0Aw6S9C	ERTIFICATE - AwIBAgIQLHS EwJjYTAgFwØy AxMCY2EwggI: CRFHW5548800	 rCpWQfRF8+w3F9t yNDAzMjIxMjI4NT iMA0GCSqGSIb3DQ vSSr6k6vVv9Ni80	muSjANBgkqhki NaGA8yMDU0MDM EBAQUAA4ICDwA nom7///aE51yw	G9w0BAQsFADAN lyMjEyMzg1M1ow wggIKAoICAQDB u kH9V+0G /Db72						
ca.crt:  MIIE6DCCAtCgA MQswCQYDVQQDE DTELMAkGA1UEA msHsuj0Aw6S9C XhegAvybkw5BW	ERTIFICATE - AwIBAgIQLHS EwJjYTAgFw0y AxMCY2EwggI: CRfHW5F4B8uv W/olFnXTX9x	 rCpWQfRF8+w3F9t yNDAzMjIxMjI4NT iMA0GCSqGSIb3DQ vSSr6bKoVr9Nj80 /mYzrBm5w0/4/D6	muSjANBgkqhki NaGA8yMDU0MDM EBAQUAA4ICDwA rom7//4eE51yw JNFu0n0/YFizZ	G9w0BAQsFADAN lyMjEyMzg1M1ow wggIKAoICAQDB rLkH9V+0G/Dh72 1 ifXaogMokhac						
ca.crt: BEGIN CE MIIE6DCCAtCgA MQswCQYDVQQDE DTELMAkGA1UEA msHsuj0Aw6S9C XhegAvybkw5BW 6zeNYnyn/k4PB	ERTIFICATE AwIBAgIQLHSi EwJjYTAgFw0 AxMCY2EwggI: CRfHW5F4B8u W/olEnXIX9x R8kmffcAs58	 rCpWQfRF8+w3F9t yNDAzMjIxMjIANT iMA0GCSqGSIb3DQ vSSr6bKoVr9Nj80 T/mYzrBm5wO//D6 dhaFOWV9kWIJEAL	muSjANBgkqhki NaGA8yMDU0MDM EBAQUAA4ICDwA rom7//4eE51yw JNEu0p0/YFizZ iNKi8vci8Nfab	G9w0BAQsFADAN WgjEyMzg1M1ow wggIKAoICAQDB WLKH9V+0G/Dh72 11fXqoqMokhnC						
ca.crt:  BEGIN CE MIIE6DCCAtCgA MQswCQYDVQQDE DTELMAkGA1UEA msHsuj0Aw6S9C XhegAvybkw5BW 6zeNYnyn/k4PR jwyVY1cuozKaĐ	ERTIFICATE AwIBAgIQLHSi EwJjYTAgFw0 AxMCY2EwggI: CRfHW5F4Bau W/o1EnXIX9x R8kmffcAe5R/ HO1wgaR+bWa	 CCpWQfRF8+w3F9t yNDAzMjIxMjI4NT IMA0GCSqGSIb3DQ vSSr6bKoVr9Nj80 T/mYzr8m5w0//D6 AhaEOWV9kWUT61+ 7/z6656511hLiiu(	muSjANBgkqhki NaGA8yMDU0MDM EBAQUAA4ICDwA rom7//4eE51yw JNEu0p0/YFizZ iNKj8yCi8Nfah MoYUNoDNT <del>Hys</del> e	G9w0BAQsFADAN lyMjEyMzg1M1ow wggIKAoICAQDB LkH9V+0G/Dh72 (1ifXqoqMokhnC i6RCxxDNuWrNQv Yoz91 v0f4n1AY						
ca.crt: BEGIN CE MUIE6DCCAtCgA MQswCQYDVQDD DTELMAkGA1UEA msHsuj0Aw6S9C XhegAvybkw5BW 6zeNYnyn/k4PR iwuYV1cuozKaH iwuYV1cuozKaH iwuYV1cuozKaH	ERTIFICATE - AwIBAgIQLHS EwJjYTAgFwØy AxMCY2EwggI CRfHW5F4B8uv N/O1EnXIX9x R8kmffcAe5R 4Q1wgqR+bWa ITP51AGUnDwr	 rCpWQfRF8+w3F9t MA0GCSqGSIb3DQ vSSr6bKoVr9Nj80 T/mYzr8m5wO//D6 AhaEOW9kWUT61+ 71Zd6G561IhUjv1 KXFFP9sRw/cm <b>8</b> f5	muSjANBgkqhki NaGA8yMDU0MDM EBAQUAA4ICDwA rom7//4eE51yw JNEu0p0/YFizZ iNKj8yCi8Nfah MqYUNqDNIHyse 5/W9GcvAU6MsI	G9w0BAQsFADAN WyjEyMzg1M1ow wggIKAoICAQDB LkH9V+0G/Dh72 1ifXqoqMokhnC 6RCxxDNuWrNQv Yoz9LvQf4pJAY g0VGVmOwtA7iW						
ca.crt:  BEGIN CE MIIE6DCCAtCgA MQswCQYDVQQDD DTELMAkGA1UEA msHsuj0Aw6S9C XhegAvybkwSBW KhegAvybkwSBW 6zeNYnyn/k4PR iwuYV1cuozKaH iAcawnEzMiZ/1 Trosh9x50W±02	ERTIFICATE - AwIBAgIQLHS EwJjYTAgFwØy AxMCY2EwggI CRFHW5F4B8u N/o1EnXIX9x R8kmffcAe5R/ HQ1wgqR+bWa ITP51AGUpDw ITP51AGUpDw	 rCpWQfRF8+w3F9t yNDAzMjIxMjI4NT iMA0GCSqGSIb3DQ vSSr6bKoVr9Nj80 T/mYzrBm5wO//D6 AhaEOWV9kWUT61+ 71Zd6G5611hUjv1 fXtFP9sRw/cm8fS bvzbvFpe16h4unk	muSjANBgkqhki NaGA8yMDU0MDM EBAQUAA4ICDwA rom7//4eE51yw JNEu0p0/YFizZ iNKj8yCi8Nfah MqYUNqDNIHyse 5/W9GCyAU6MsT DRe/9+LEmA1Dt	G9w0BAQsFADAN lyMjEyMzg1Mlow wgg1KAoICAQDB lLkH9V+0G/Dh72 lifXqoqMokhnC i6RCxxDNuWrNQv Yoz9LvQf4pJAY g0VGVmQwtA7jW I065hD0e7ea8K						

Name: ingress-nginx-controller

Namespace: ingress-nginx

Labels: app.kubernetes.io/component=controller

app.kubernetes.io/instance=ingress-nginx

app.kubernetes.io/managed-by=Helm

app.kubernetes.io/name=ingress-nginx

app.kubernetes.io/part-of=ingress-nginx

app.kubernetes.io/version=1.10.0

helm.sh/chart=ingress-nginx-4.10.0

Annotations: meta.helm.sh/release-name: ingress-nginx meta.helm.sh/release-namespace: ingress-nginx

Data

====

allow-snippet-annotations:

----

false

BinaryData

Events:

Type Reason Age From Message

---- -----

Normal CREATE 6m28s nginx-ingress-controller ConfigMap ingress-nginx/ingress-nginx-controller

Name: kube-root-ca.crt

Namespace: ingress-nginx

Labels: <none>

Annotations: kubernetes.io/description:

Contains a CA bundle that can be used to verify the kube-apiserver when using internal endpoints such as the internal service IP or kubern...

Data

====

ca.crt:

----

-----BEGIN CERTIFICATE-----

MIIE6DCCAtCqAwIBAqIQLHSrCpWQfRF8+w3F9tmuSjANBqkqhkiG9w0BAQsFADAN MQswCQYDVQQDEwJjYTAgFw0yNDAzMjIxMjI4NTNaGA8yMDU0MDMyMjEyMzq1M1ow DTELMAkGA1UEAxMCY2EwgqliMA0GCSqGSlb3DQEBAQUAA4ICDwAwgqlKAoICAQDB msHsuj0Aw6S9CRfHW5F4B8uvSSr6bKoVr9Nj80rom7//4eE51ywLkH9V+0G/Dh72 XheqAvybkw5BW/olEnXIX9xT/mYzrBm5wO//D6JNEu0p0/YFizZ1ifXaoqMokhnC 6zeNYnyn/k4PR8kmffcAe5RAhaEOWV9kWUT6I+iNKj8yCi8Nfah6RCxxDNuWrNQv iwuYV1cuozKaHQ1wggR+bWa7lZd6G561lhUjv1MgYUNgDNlHyseYoz9LvQf4pJAY iAcawnEzMiZ/ITP51AGUpDwfXtFP9sRw/cm8fS5/W9GcyAU6MsTq0VGVmQwtA7jW TrOsh9x5OWsO7eUEyujn56lbyzbyFpq16h4wpkDRe/9+LEmAJDtlo6ShQpe7ea8K TEnLdBFKJnnFqSDJCBOReoPqFEnm6v351aB852+o6doNWoblfixsYGGfVKox72x1 ozDqMcMR/HLbkLcbGTKYuan6/K6/Qyh084icBMd+2wSkjD/Tqy5F9mwNvo4w7Yq2 v0xA8b0bkwZhqVGknqyCU8gr+mth5Qzbk+a+6rNvNiUH7SdM3ysGG8cFDoHv6O0k 4QSupiwuSFQ+nnfLdItD4Vu13vw9zDF+83bc3a2tQgHwIHaJsOhYrlLMmnC1z2Kj oh0eEcH6ryN5CG0r98v9sEGyZ85LNQ15EZmQ8Z9iWQIDAQABo0IwQDAOBgNVHQ8B Af8EBAMCAqQwDwYDVR0TAQH/BAUwAwEB/zAdBqNVHQ4EFqQUMVWQsOrd54puywyq ptKYlpdbQ+YwDQYJKoZlhvcNAQELBQADqqIBADvdiKVcUr9jIK3Sz0vCGMJtJZ4I zYMekWOrsYv7T5RQYQ25WKDYRG8v3rfLDD/lxvNTtYBfG6Yaa19fw/B3EAGmP1CY

cxPzkK/KhM31GgEoDlyq6Dw2lDJEJzsKZMWKA1tp/EPfRuWFa0/7CuxtgDwQfWRH Niiq9C9P52MtLXOV/w9Y9lvviO/zOmyKxk5suSwT2XMXuiLzPfFJL0upSh+7ni06 5JPbYD0kGK5lKYegTm80pynOo+APVNXviQpP+XWy22EkGVsJywmAAj/qKNAqi83O ikHi1h65K57lxl0ycZltQpUBCkeZVrjHMU1xXyS0TPHtruLYf4taX4Z5QtvfGg8L hrGTrfIJonEe/z+PguVJlfUr2FU6rDN0JDaC7zhL+bCyHZsloIVTvD04rRW+IQpM UavV2uCknhjOXbrl/6oSPCP/4poRHVaenTpOvHjE72DNYHWkY52UQmpR8oWjo2T4 3BaJtiMa7ckgxFJQXkZaMBPI7RITeX+qgyDZaROZ+yP5dSkIzOhQfTGmNMgnq2oP m25dwbWQhPNvsO8Xw0j3bT08RKLtIBMaSr1liPdBJu9ptuOZDAyG+SbA1xLw8WC1 3O88pgpxQnBWskPNE1CQobwrqoJxcYKuFuhvtRr3OHhXQ7zGnvyapVjTYluztaX1 +Va5TDMT36gr66Hp -----END CERTIFICATE-----

BinaryData

====

Events: <none>

14. Wait/Check for the external IP

kubectl get services ingress-nginx-controller --namespace ingressnginx

🔀 Windows PowerShell							-	×
PS C:\Users\nickl\window NAME ingress-nginx-controller PS C:\Users\nickl\window	s-amd64> <mark>kubectl</mark> TYPE LoadBalancer s-amd64>	get services CLUSTER-IP 10.0.9.150	ingress-nginx- EXTERNAL-IP 4.232.217.40	controlle PORT(S) 80:3023	ernamespace ) 33/TCP,443:325	ingress- 03/TCP	nginx AGE 10m	^
								ŀ
	TVDE							~

NAME CLUSTER-IP EXTERNAL-IP PORT(S) TYPE ingress-nginx-controller LoadBalancer 10.0.9.150 4.232.217.40 80:30233/TCP,443:32503/TCP 10m

AGE



## 15. Install the cert-manager

- cd C:\Users\Kostas\windows-amd64
- ./helm repo add jetstack <a href="https://charts.jetstack.io">https://charts.jetstack.io</a>



# "jetstack" has been added to your repositories

./helm repo update



Hang tight while we grab the latest from your chart repositories...

...Successfully got an update from the "ingress-nginx" chart repository

...Successfully got an update from the "jetstack" chart repository

...Successfully got an update from the "gitea-charts" chart repository Update Complete. \*Happy Helming!\*

./helm install cert-manager jetstack/cert-manager --wait --create-namespace --namespace cert-manager --set installCRDs=true

Windows PowerShell	_		$\times$
Hang tight while we grab the latest from your chart repositories Successfully got an update from the "jetstack" chart repository Successfully got an update from the "ingress-nginx" chart repository Update Complete. BHappy Helming!B PS C:\Users\nickl\windows-amd64> ./helm install cert-manager jetstack/cert-managerwaitcreate-nam e cert-managerset installCRDs=true NAME: cert-manager LAST DEPLOYED: Fri Mar 22 15:23:26 2024 NAMESPACE: cert-manager STATUS: deployed REVISION: 1 TEST SUITE: None	espace	namesp	A Dac
NOTES: cert-manager v1.14.4 has been deployed successfully!			
In order to begin issuing certificates, you will need to set up a ClusterIssuer or Issuer resource (for example, by creating a 'letsencrypt-staging' issuer).			
More information on the different types of issuers and how to configure them can be found in our documentation:			
https://cert-manager.io/docs/configuration/			
For information on how to configure cert-manager to automatically provision Certificates for Ingress resources, take a look at the `ingress-shim` documentation:			
https://cert-manager.io/docs/usage/ingress/ PS C:\Users\nickl\windows-amd64>			
			~
NAME: cert-manager			
LAST DEPLOYED: Fri Mar 22 15:23:26 2024			

LAST DEPLOYED: Fri Mar 22 15:23:26 2024 NAMESPACE: cert-manager STATUS: deployed REVISION: 1 TEST SUITE: None NOTES: cert-manager v1.14.4 has been deployed successfully!

In order to begin issuing certificates, you will need to set up a ClusterIssuer or Issuer resource (for example, by creating a 'letsencrypt-staging' issuer).

More information on the different types of issuers and how to configure them

can be found in our documentation:

## https://cert-manager.io/docs/configuration/

For information on how to configure cert-manager to automatically provision Certificates for Ingress resources, take a look at the `ingress-shim` documentation:

## https://cert-manager.io/docs/usage/ingress/

## 16. Inspect cert-manager Config Map

```
kubectl describe configmap -n cert-manager
```

🔀 Windows I	PowerShell	-		×
https://cert-	manager in/dors/usage/ingress/			^
PS (:\llconc\r	manager i by doug and by kiner i describe configmen in centimenegen			
Nomo:	kuba post sa sut			
Namespace:				
Annotations:	Kupernetes.io/description:			
	Contains a CA bundle that can be used to verify the kube-apiserver when using internal	enapoin	ts such	as
the internal	service IP or kubern			
Data				
====				
ca.crt:				
BEGIN CE	RTIFICATE			
MIIE6DCCAtCgA	wIBAgIQLHSrCpWQfRF8+w3F9tmuSjANBgkqhkiG9w0BAQsFADAN			
MQswCQYDVQQDE	wJjYTAgFw0yNDAzMjIxMjI4NTNaGA8yMDU0MDMyMjEyMzg1M1ow			
DTELMAKGA1UEA	xMCY2EwggIiMA0GCSqGSIb3D0EBA0UAA4ICDwAwggIKAoICA0DB			
msHsui0Aw6S9C	RfHW5F4B8uvSSr6bKoVr9N180rom7//4eE51vwLkH9V+0G/Dh72			
XhegAvybkw5Bk	//olEnXIX9xT/mYzrBm5w0//D6JNEu0p0/YFizZ1ifXaoaMokhnC			
67eNYnyn /k4PR	kmffcde5R4baE0WV9kWIIT61+1NK18vC18Nfab6RCxxDNuWeN0v			
iwuW1cuozKał	olwgaB+bWa717d6G561TbHiv/IMg/INgDNIHyseYgz9Iv0f4g1AY			
iAcawnEzMi7/1	TESTACION. FLEDGERU / cm8455/10/6c/u/16/MeTa0/KC/m0.utA7il/			
	allEvitisSGTburzbuEng16b/umbCNg/04LEma10t1a65b/0a7aa8K			
	COLONDADZEST PETOTAMPRONE/STELINASOLIOUSING/SECON			
	JUJ LOUREUR BELINNEV JJ LEBO J LOURUNUUT I I XS I GG I VANZ XX ZX			
	LCDGTRTUano/Ko/Qyneo41Cphu+2w3KJD/TQ9F9Iiiiiiv04w/Tg2			
	VGKTUVCUOBIT+IIILTIVZDK+A+OTIVVILUT/SUHDYSGGGCFUOUVOUK			
4QSupiWuSFQ+r	ntLaitu4vui3vw9z0F+830C3a2tvgHwiHaJSONYFILMMLI22KJ			
oh0eEcH6ryN50	GALARÁAREGA SERVÍTETSTMÓRSALMÓTEDA MARINA			
A+8EBAMCAqQwL	wYDVK01AQH/BAUwAwEB/zAdBgnVHQ4EFgQUMWQsOrd54puywyq			
ptKYIpdbQ+YwD	QYJKoZIhvcNAQELBQADggIBADvdiKVcUr9j1K3SzØvCGMJtJZ41			
zYMekWOrsYv7T	5RQYQ25WKDYRG8v3rfLDD/1xvNTtYBfG6Yaa19fw/B3EAGmP1CY			
cxPzkK/KhM310	gEoDlyq6Dw21DJEJzsKZMWKA1tp/EPfRuWFa0/7CuxtgDwQfWRH			
Niiq9C9P52Mtl	XOV/w9Y9IvviO/zOmyKxk5suSwT2XMXuiLzPfFJL0upSh+7ni06			
5JPbYD0kGK51k	YegTm80pynOo+APVNXviQpP+XWy22EkGVsJywmAAj/qKNAqi830			
ikHi1h65K571x	I0ycZltQpUBCkeZVrjHMU1xXyS0TPHtruLYf4taX4Z5QtvfGg8L			
hrGTrfIJonEe/	z+PguVJ1fUr2FU6rDN0JDaC7zhL+bCyHZsloIVTvD04rRW+IQpM			
UavV2uCknhj0X	brI/6oSPCP/4poRHVaenTpOvHjE72DNYHWkY52UQmpR8oWjo2T4			
3BaJtiMa7ckgx	FJQXkZaMBP17RITeX+qgyDZaROZ+yP5dSkIzOhQfTGmNMgnq2oP			
m25dwbWQhPNvs	08Xw0j3bT08RKLtIBMaSr1IiPdBJu9ptu0ZDAyG+SbA1xLw8WC1			
3088pgpxQnBWs	kPNE1CQobwrgoJxcYKuFuhvtRr30HhXQ7zGnvyapVjTYluztaX1			
+Va5TDMT36gr6	6Hp			
END CERT	IFICATE			
BinaryData				
====				
Events: <nor< td=""><td>e&gt;</td><td></td><td></td><td></td></nor<>	e>			
PS C:\Users\n	ickl\windows-amd64>			$\sim$

Name: kube-root-ca.crt

Namespace: cert-manager

Labels: <none>

Annotations: kubernetes.io/description:

Contains a CA bundle that can be used to verify the kube-apiserver when using internal endpoints such as the internal service IP or kubern...

Data

====

ca.crt:

----

-----BEGIN CERTIFICATE-----

MIIE6DCCAtCqAwIBAqIQLHSrCpWQfRF8+w3F9tmuSjANBqkqhkiG9w0BAQsFADAN MQswCQYDVQQDEwJjYTAqFw0yNDAzMjIxMjI4NTNaGA8yMDU0MDMyMjEyMzq1M1ow DTELMAkGA1UEAxMCY2EwqqliMA0GCSqGSIb3DQEBAQUAA4ICDwAwqqIKAoICAQDB msHsuj0Aw6S9CRfHW5F4B8uvSSr6bKoVr9Nj80rom7//4eE51ywLkH9V+0G/Dh72 XheqAvybkw5BW/olEnXIX9xT/mYzrBm5wO//D6JNEu0p0/YFizZ1ifXqoqMokhnC 6zeNYnyn/k4PR8kmffcAe5RAhaEOWV9kWUT6I+iNKj8yCi8Nfah6RCxxDNuWrNQv iwuYV1cuozKaHQ1wggR+bWa7lZd6G561lhUjv1MgYUNgDNlHyseYoz9LvQf4pJAY iAcawnEzMiZ/ITP51AGUpDwfXtFP9sRw/cm8fS5/W9GcyAU6MsTg0VGVmQwtA7jW TrOsh9x5OWsO7eUEyujn56lbyzbyFpg16h4wpkDRe/9+LEmAJDtlo6ShQpe7ea8K TEnLdBFKJnnFqSDJCBOReoPqFEnm6v351aB852+o6doNWoblfixsYGGfVKox72x1 ozDqMcMR/HLbkLcbGTKYuan6/K6/Qyh084icBMd+2wSkjD/Tqy5F9mwNvo4w7Yq2 v0xA8b0bkwZhqVGknqyCU8gr+mth5Qzbk+a+6rNvNiUH7SdM3ysGG8cFDoHv6O0k 4QSupiwuSFQ+nnfLdItD4Vu13vw9zDF+83bc3a2tQqHwIHaJsOhYrlLMmnC1z2Kj oh0eEcH6ryN5CG0r98v9sEGyZ85LNQ15EZmQ8Z9iWQIDAQABo0IwQDAOBgNVHQ8B Af8EBAMCAqQwDwYDVR0TAQH/BAUwAwEB/zAdBqNVHQ4EFqQUMVWQsOrd54puywyq ptKYIpdbQ+YwDQYJKoZIhvcNAQELBQADgqIBADvdiKVcUr9jIK3Sz0vCGMJtJZ4I zYMekWOrsYv7T5RQYQ25WKDYRG8v3rfLDD/lxvNTtYBfG6Yaa19fw/B3EAGmP1CY cxPzkK/KhM31GgEoDlyg6Dw2lDJEJzsKZMWKA1tp/EPfRuWFa0/7CuxtgDwQfWRH Niig9C9P52MtLXOV/w9Y9lvviO/zOmyKxk5suSwT2XMXuiLzPfFJL0upSh+7ni06 5JPbYD0kGK5IKYeqTm80pynOo+APVNXviQpP+XWy22EkGVsJywmAAj/qKNAqi83O ikHi1h65K57lxl0ycZltQpUBCkeZVrjHMU1xXyS0TPHtruLYf4taX4Z5QtvfGg8L hrGTrfIJonEe/z+PquVJIfUr2FU6rDN0JDaC7zhL+bCyHZsloIVTvD04rRW+IQpM UavV2uCknhjOXbrl/6oSPCP/4poRHVaenTpOvHjE72DNYHWkY52UQmpR8oWjo2T4 3BaJtiMa7ckgxFJQXkZaMBPI7RITeX+ggyDZaROZ+yP5dSkIzOhQfTGmNMgng2oP m25dwbWQhPNvsO8Xw0j3bT08RKLtIBMaSr1liPdBJu9ptuOZDAyG+SbA1xLw8WC1 3O88pgpxQnBWskPNE1CQobwrqoJxcYKuFuhvtRr3OHhXQ7zGnvyapVjTYluztaX1 +Va5TDMT36gr66Hp

-----END CERTIFICATE-----
====

Events: <none>

#### 17. Define the domain name

\$DOMAIN\_NAME="software-machines.online"



# 18. Create a DNS zone

az network dns zone create --resource-group eclipse-che --name \$DOMAIN NAME

```
Windows PowerShell
                                                                                                                                                                                      \times
PS_C:\Users\nickl\windows-amd64>
PS C:\Users\nickl\windows-amd64> $DOMAIN NAME
software-machines.online
PS C:\Users\nickl\windows-amd64> az network dns zone create --resource-group eclipse-che --name $DOMAIN NAME
  "etag": "3634f783-2a77-4260-8ae5-899cfc4e18b8",
"id": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourceGroups/eclipse-che/providers/Microsoft.Network/dnsz
 "1d": "/subscriptions/ab59df32-05ab
nes/software-machines.online",
"location": "global",
"maxNumberOfRecordSets": 10000,
"name": "software-machines.online",
"nameServers": [
"ns1-36.azure-dns.com.",
"ns2-36.azure-dns.net.","
      "ns3-36.azure-dns.org.
      "ns4-36.azure-dns.info."
   ],
"numberOfRecordSets": 2,
  "resourceGroup": "eclipse-che",
"tags": {},
"type": "Microsoft.Network/dnszones",
"zoneType": "Public"
PS C:\Users\nickl\windows-amd64>
```

```
{
```

```
"etag": "3634f783-2a77-4260-8ae5-899cfc4e18b8",
```

"id": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourceGroups/eclipse-che/providers/Microsoft.Network/dnszones/software-machines.online",

```
"location": "global",
```

"maxNumberOfRecordSets": 10000,

```
"name": "software-machines.online",
```

```
"nameServers": [
```

```
"ns1-36.azure-dns.com.",
```

```
"ns2-36.azure-dns.net.",
```

```
"ns3-36.azure-dns.org.",
```

```
"ns4-36.azure-dns.info."
```

```
],
```

```
"numberOfRecordSets": 2,
```

```
"resourceGroup": "eclipse-che",
```

```
"tags": {},
```

```
"type": "Microsoft.Network/dnszones",
"zoneType": "Public"
}
```

19. Configure the name servers with the registrar Europeregistry of the domain



V 🖉 🌢 Europe Registry (European ccl: X +		- a ×
← → C ti europeregisty.com	©a ☆ D	
< Login 🖬 Fourtain of Somow. 🖹 ۵.0.Y. Geosolowing. 🖬 The Rolling Stones 📓 prefocas GmbH – Li 👔 Your Creations 🗞 https://ritranet.utra 🗞 Edipse Che 🏄 Nevert Questions 🚶 Steeret Live Samp Live Webcam fr 🗊 South Africa Wild Li.	😳 Webcam Athen Akr	>>
C Germany +49 222-2109-7818	MY ACCOUNT	SIGN UP 🍐
Europe's trusted domain search and registration services		
BLK ¥ Ø AVVALCED SEARCH Ø		
💭 for only 19.99 👫 uk 613.99 🜓 .fr 617.99 🧰 .es 69.99 🥃 .de 68.99 👄 .com 611.49		THE P
Europe Registry is a trusted domain expert with over twenty years experience in the domain industry. We have multiple ICANN Accreditations and provide domain registration for country code top level domains (ccTLDs).		
	-	Chat Now
http://www.www.engenergation.com/concentration	Chiller a the ENG	2:57 PM



👻 💠 Europe Registry Dashboard	× +					- a ×
← → C = europereg	gistry.com/domain/index					🔤 🕁 🖸 🗆 🔞 🗄
🕻 Login 🛛 Fountain of Sorrow	🖹 Δ.Ο.Υ. Θεσσαλονίκη 💶 The Rolling Stones	prefocus GmbH – Li 🍞 Your Creations 🥥	https://intranet.ultra 🔇 Eclipse Che	Newest Questions 🚺 Greece Live Cams	💶 🛑 Live Webcam fr 👩 South Africa Wild	Li 😳 Webcam Athen Akr 🔉 🚿
EUROPE REGISTRY	My Domains 🛛					€ Welcome bjirmann ♥
<ul> <li>B Dashboard</li> <li>▲ Account Details →</li> </ul>	Your Domains 4 / 0 Expiring (60 days)	History O view				
Domains     My Domains     Register New Domains     Transfer Domains	0	0		0	Θ	U
Renew My Domains	REGISTER NEW DOMAINS	RENEW DOMAIN	BULK DNS EDIT	ASSIGN CATEGORY	UNASSIGN CATEGORY	ADD PRIVACY
Expired Domains Domain Category Domain Credits	My Domains					
Eligibility Required	Bulk Actions - APPLY				Search	Q Show: 10 V
🖼 Website Builder 🛛 👌	Domain Name	Registrant	Expiry Renewal	Date Features	Category	Edit
SSL Certificates	software-machines.online	Brigitte Jirmann	2024-11-18	🗢 🔒 🤤	delegated	
	software- hines.com	Brigitte Jirmann	2024-11-18	💙 🔒 🤣	Parked	
🗙 Trademarks 🛛 🔸	waternomics.eu	Brigitte Jirmann	2028-01-12	© ≙ ↔	dns forwarding	
	ultra4.eu	Jesse van Slooten	2024-06-20	© ≙ ↔	delegated	
	Showing 1 to 4 of 4 entries					< 1 >
	Cenerate CSV	t				Chat Now

👻 💠 Europe Registry Dashboard	x +	<
← → C == europereg	istry.com/domain/mio/domain/key=Vmd/BW1QNTCXXgm0VRK12z20USVHHVCVVNpbkgdxXpkVU0azhjV0EhVD0.	:
🗧 Login 🛛 Fountain of Sorrow	🖹 D.O.Y. Georoloviev, 🔳 The foling Stores 👡 🏢 protocas GmbH – LL. 👔 tour Creations 📀 https://ntranetultra 📀 Edipee Che 者 Newest Questions – 👖 Greece Live Came J. 🚥 🕒 Lee Vebbaan fr 😨 South Ahira Wild LL. 📚 Webbaan Ahima Ahar 🔊	
<b>EUROPE</b> REGISTRY	Domain Info 💿 🗧 🦒 Welcome bjirmann 🔅	
🚳 Dashboard	software-machines.online	
🛔 Account Details 🛛 🔸		
Oomains	SUMMARY DNS SETTINGS CONTACTS HISTORY	
My Domains		
Register New Domains	✓ Active Restand Date: Experiod Date: RENEW 2079-11:20 2074-11:38 RENEW	
Transfer Domains		
Renew My Domains	Registrant: " EDIT Auto Renew: @	
Expired Domains	Digite Jiniani	
Domain Category	Name Server:      EDIT Whole Privacy:      DISABLE	
Eligibility Required	ns1-08.azure-dns.com IP Protected	
± Hosting →	ns3-08.azure-dns.org	
En Website Builder →		
SSI Certificates	Domin Auth Code	
Dhane Mumbers	Dinami Audi Code: The verification code will be sent to info@ultrs4.eu.	
C Phone Numbers	CET AUTHCODE	
Trademarks		
≁ lools →		
Return to Europe Registry	Strup Web 6 Email Hosting	
P Type here to search	🚲 🏣 🛱 😍 😆 😳 🌆 📓 🥁 🖏 🚱 🐂 🖏 🧭 🥔 🥵 🖳 🥔 🔹 🔝 🖉	



# 20. Create two DNS record sets

kubectl get service -n ingress-nginx ingress-nginx-controller o=jsonpath='{.status.loadBalancer.ingress[0].ip}'



#### 4.232.217.40

az network dns record-set a add-record --resource-group eclipse-che --zonename \$DOMAIN\_NAME --record-set-name "\*" --ipv4-address \$(kubectl get service -n ingress-nginx ingress-nginx-controller o=jsonpath='{.status.loadBalancer.ingress[0].ip}')

```
Windows PowerShell
                                                                                                                      \times
 S C:\Users\nickl\windows-amd64> az network dns zone create --resource-group eclipse-che
                                                                                                -name $DOMAIN |
 "etag": "3634f783-2a77-4260-8ae5-899cfc4e18b8",
"id": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourceGroups/eclipse-che/providers/Microsoft.Network/dnsz
 nes/software-machines.online",
  "location": "global",
  "maxNumberOfRecordSets": 10000,
  "name": "software-machines.online",
  "nameServers": [
    "ns1-36.azure-dns.com.",
"ns2-36.azure-dns.net.",
    "ns3-36.azure-dns.org."
    "ns4-36.azure-dns.info."
 ],
"numberOfRecordSets": 2,
 "resourceGroup": "eclipse-che",
 "tags": {},
"type": "Microsoft.Network/dnszones",
  "zoneType": "Public"
PS C:\Users\nickl\windows-amd64> <mark>kubectl</mark> get service -n ingress-nginx ingress-nginx-controller -o=jsonpath='{.status.loa
dBalancer.ingress[0].ip}
4.232.217.40
 S C:\Users\nickl\windows-amd64> az network dns record-set a add-record --resource-group eclipse-che --zone-name $DOMAI
                                     address $(kubectl get service -n ingress-nginx ingress-nginx-controller -o=jsonpath=
.status.loadBalancer.ingress[0].ip}')
  "ARecords": [
      "ipv4Address": "4.232.217.40"
    }
 ],
"TTL": 3600,
 "rtag": "5be8a526-2c1e-4b14-a2a6-638ad054bc37",
"fqdn": "*.software-machines.online.",
"id": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourceGroups/eclipse-che/providers/Microsoft.Network/dnsz
 nes/software-machines.online/A/*",
  "name":
 "provisioningState": "Succeeded",
 "resourceGroup": "eclipse-che",
"targetResource": {},
"type": "Microsoft.Network/dnszones/A"
S C:\Users\nickl\windows-amd64>
 "ARecords": [
     "ipv4Address": "4.232.217.40"
  }
 ],
 "TTL": 3600,
 "etag": "5be8a526-2c1e-4b14-a2a6-638ad054bc37",
 "fqdn": "*.software-machines.online.",
 "id": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourceGroups/eclipse-che/
providers/Microsoft.Network/dnszones/software-machines.online/A/*",
 "name": "*",
 "provisioningState": "Succeeded",
 "resourceGroup": "eclipse-che",
 "targetResource": {},
 "type": "Microsoft.Network/dnszones/A"
```

}

← → C ⋒ 😁 portal.az	zure.com/#@ultra4ais.onmicrosoft.com	n/resource/subscriptions/a559df32-05al	-46a8-bbfe-5171eda2l	bde/resourceGroups/eclipse-che/	providers/Microsoft ট 🛠	🎂 🥹 호 🗆 🛛 🖉
🕃 phpBB XS   🔇 Νέα καρτέλα 🛭 👹 V	VebCourses 😝 Facebook  🚹 TUC-Sche	edule-Class 俊 TUC eclass 🛛 ໑ϡλληλογ	γραφία - La 🐱 Ultra4-	Email 🔇 Work Tracking		
Microsoft Azure	۶ م	earch resources, services, and docs (G+/)			5 Q 🕸 Q	자 nikos@ultra4ais.onmicr ULTRA4 ADVANCED INFORMATI
Home > Resource groups > eclipse	e-che >					
Software-machine	es.online 🖈 🛧 …					>
₽ Search	« + Record set + Child zone	↑ Import ↓ Export 📋 Delete z	one $\rightarrow$ Move $\lor$ 🖒	Refresh		
<ul> <li>Overview</li> </ul>	▲ Essentials					JSON View
Activity log	Resource group (move) : eclipse	-che		Name server 1 : ns1-36.azu	re-dns.com.	
Access control (IAM)	Subscription (move) : Azure :	subscription 1		Name server 2 : ns2-36.azur	re-dns.net.	
🖉 Tags	Subscription ID : a559d	32-05ab-46a8-bbfe-5171eda2bbde		Name server 3 : ns3-36.azu	re-dns.org.	
🗙 Diagnose and solve problems				Name server 4 : ns4-36.azu	re-dns.info.	
Cattings	Tags ( <u>edit</u> ) : <u>Add ta</u>	gs				
	You can search for record sets th	hat have been loaded on this page. If you d	on't see what you're look	ing for, you can try scrolling to allow	more record sets to load.	
	Search record sets					
Locks	Name	Туре	TTL	Value	Alias resource type	Alias target
Monitoring				ns1-36.azure-dns.com. ns2-36.azure-dns.net.		
Alerts	@	NS	172800	ns3-36.azure-dns.org.		
Metrics				Email: azuredns-hostma	aster	
Automation				Host: ns1-36.azure-dns Refresh: 3600	.com.	
	@	SOA	3600	Retry: 300 Expire: 2419200		
Tasks (areview)				Minimum TTL: 300	Europuerroué erro moi M	lindaus
ala idoko (preview)	*	۵	3600	Serial number: 1	Ενεργοποιηστε τα V Μετάβαση στις ουθμίσεις γι	ντησοws α ενεονοποίηση των Windows.

az network dns record-set a add-record --resource-group eclipse-che --zonename \$DOMAIN NAME --record-set-name "@" --ipv4-address \$(kubectl get service -n ingress-nginx ingress-nginx-controller o=jsonpath='{.status.loadBalancer.ingress[0].ip}')

{

}

```
"ARecords": [
  {
   "ipv4Address": "4.232.217.40"
  }
 ],
 "TTL": 3600,
 "etag": "07c5f937-d218-4fb4-8e8c-12a83eae232a",
 "fqdn": "software-machines.online.",
 "id": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourceGroups/eclipse-che/
providers/Microsoft.Network/dnszones/software-machines.online/A/@",
 "name": "@",
 "provisioningState": "Succeeded",
 "resourceGroup": "eclipse-che",
 "targetResource": {},
 "type": "Microsoft.Network/dnszones/A"
```

← → C ⋒ 📼 portal.azu	re.com/#@ultra4ais.onmicrosoft.c	m/resource/subscriptions/a559df32-05a	b-46a8-bbfe-5171eda2l	bbde/resourceGroups/eclipse-che/p	oroviders/Microsoft Ե 🛧	💩 🕺 🖸 । 🗖 🌘	D :
Ġ phpBB XS 🔇 Νέα καρτέλα 🧉 Wet	oCourses 😝 Facebook  🛨 TUC-S	thedule-Class 俊 TUC eclass 🦉 Αλληλα	γραφία - La 🐱 Ultra4-	Email 🔇 Work Tracking			
	م	Search resources, services, and docs (G+/)			D Q 🕸 🕐	R nikos@ultra4ais.onmic ULTRA4 ADVANCED INFORMA	r 🙆
Home >							
software-machines DNS zone	s.online 🖈 ☆ …						×
✓ Search «	+ Record set + Child zo	ne ↑ Import \downarrow Export 🔟 Delete a	tone $\rightarrow$ Move $\checkmark$ C	Refresh			
Overview	Resource group (move) : eclip	se-che		Name server 1 : ns1-36.azur	e-dns.com.		*
Activity log	Subscription (move) : Azu	e subscription 1		Name server 2 : ns2-36.azur	e-dns.net.		- 1
Access control (IAM)	Subscription ID : a559	df32-05ab-46a8-bbfe-5171eda2bbde		Name server 3 : ns3-36.azur	e-dns.org.		- 1
🔷 Tags				Name server 4 : ns4-36.azur	e-dns.info.		- 1
X Diagnose and solve problems	Tags (edit) : Add	tags that have been loaded on this page. If you	don't see what you're look	ring for, you can try scrolling to allow r	more record sets to load.		- 1
Settings	√ Search record sets	,	,				
Properties	Name	Туре	TTL	Value	Alias resource type	Alias target	
🔒 Locks	@	А	3600	4.232.217.40			
Monitoring				ns1-36.azure-dns.com. ns2-36.azure-dns.net			
💵 Alerts	@	NS	172800	ns3-36.azure-dns.inct. ns3-36.azure-dns.info			
🕍 Metrics				Email: azuredns-hostma	ster		
Automation				Host: ns1-36.azure-dns. Refresh: 3600	com.		- 1
CLI / PS	@	SOA	3600	Retry: 300 Expire: 2419200			
🖧 Tasks (preview)				Minimum TTL: 300 Serial number: 1	Ενερνοποιήστε τα W	√indows	- 1
Export template	*	А	3600	4.232.217.40	Μετάβαση στις ρυθμίσεις για	α ενεργοποίηση των Windows.	
المل	-						-

# 21. Create a service principal

\$CERT\_MANAGER\_SERVICE\_PRINCIPAL\_NAME="cert-manager-eclipse-che"

🔀 Windows PowerShell	_	×	
PS C:\Users\Kostas> \$CERT_MANAGER_SERVICE_PRINCIPAL_NAME="cert-manager-eclipse-che" PS C:\Users\Kostas> _		^	
			1
		-	

\$CERT\_MANAGER\_SERVICE\_PRINCIPAL\_APP\_ID=\$(az ad sp create-for-rbac --name \$CERT\_MANAGER\_SERVICE\_PRINCIPAL\_NAME --query "appId" --output tsv)



WARNING: The output includes credentials that you must protect. Be sure that you do not include these credentials in your code or check the credentials into your source control. For more information, see https://aka.ms/azadsp-cli

**Note:** In previous installation there was a warning about an existing application instance with an id ending at: ...2593 . Now the "we will patch it" warning is gone.

\$CERT\_MANAGER\_SERVICE\_PRINCIPAL\_APP\_ID is 83605b9f-4174-48a2-8c7f-9af5b50c19b4



#### 22. Give access to the DNS zone

az role assignment create --assignee \$CERT\_MANAGER\_SERVICE\_PRINCIPAL\_APP\_ID --scope \$(az network dns zone show --name \$DOMAIN\_NAME --resource-group eclipse-che --query "id" --output tsv) --role "DNS Zone Contributor"

#### Windows PowerShell

}	~
PS C:\Users\nickl\windows-amd64> \$CERT_MANAGER_SERVICE_PRINCIPAL_NAME="cert-manager-eclipse-che"	
PS C:\Users\nickl\windows-amd64> \$CERT_MANAGER_SERVICE_PRINCIPAL_APP_ID=\$(az ad sp create-for-rbacname \$CERT_MANAGER_	
SERVICE_PRINCIPAL_NAMEquery "appId"output tsv)	
WARNING: The output includes credentials that you must protect. Be sure that you do not include these credentials in you	u
r code or check the credentials into your source control. For more information, see https://aka.ms/azadsp-cli	
PS C:\Users\nickl\windows-amd64> \$CERT_MANAGER_SERVICE_PRINCIPAL_APP_ID	
83605b9f-4174-48a2-8c7f-9af5b50c19b4	
PS C:\Users\nickl\windows-amd64> az role assignment createassignee \$CERT_MANAGER_SERVICE_PRINCIPAL_APP_IDscope \$(	a
z network dns zone showname \$DOMAIN_NAMEresource-group eclipse-chequery "id"output tsv)role "DNS Zone Co	n
"condition": null,	
"conditionVersion": null,	
"createdBy": null,	
"createdun": "2024-05-22114:08:47.042/14+00:00",	
delegatedmanagedidentitykesourceid : null,	
description : null,	
10 : /Subscriptions/dosyutsz-0300-4000-bote-51/leazbood/resourceGroups/eclipse-cne/providerS/microsott.wetwork/uns.	٤
$[n_{2}] = [n_{2}] = [n_{$	
name . 03/03/03-402/-402/-2022/10/22/06/	
principality . 2004444-200-4644-200-6604-2005,	
"resourceGroup": "eclipse-che".	
"rolePerinitionId": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/providers/Microsoft.Authorization/roleDefinit	t
ions/befefa01-2a29-4197-83a8-272ff33ce314",	
"scope": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourceGroups/eclipse-che/providers/Microsoft.Network/	d
nszones/software-machines.online",	
"type": "Microsoft.Authorization/roleAssignments",	
"updatedBy": "0d4312c8-52ca-4b68-a62f-68f7391a323d",	
"updatedOn": "2024-03-22T14:08:47.475722+00:00"	
}	
PS C:\Users\nickl\windows-amd64>	
	$\sim$
1	
l	
n a carre de la nación de	

"condition": null,

"conditionVersion": null,

"createdBy": null,

"createdOn": "2024-03-22T14:08:47.042714+00:00",

"delegatedManagedIdentityResourceId": null,

"description": null,

"id": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourceGroups/eclipse-che/providers/Microsoft.Network/dnszones/software-machines.online/providers/

Microsoft.Authorization/roleAssignments/83965cb3-4823-4053-9716-2e24702299ee",

"name": "83965cb3-4823-4053-9716-2e24702299ee",

"principalId": "2bbc4414-2e83-4ce4-91c7-ce0cfe742e65",

"principalType": "ServicePrincipal",

"resourceGroup": "eclipse-che",

\_

 $\times$ 

"roleDefinitionId":

"/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/providers/Microsoft.Authorization/ roleDefinitions/befefa01-2a29-4197-83a8-272ff33ce314",

"scope": "/subscriptions/a559df32-05ab-46a8-bbfe-5171eda2bbde/resourceGroups/eclipse-che/providers/Microsoft.Network/dnszones/software-machines.online",

```
"type": "Microsoft.Authorization/roleAssignments",
```

"updatedBy": "0d4312c8-52ca-4b68-a62f-68f7391a323d",

```
"updatedOn": "2024-03-22T14:08:47.475722+00:00"
```

}

# 23. Create the eclipse-che namespace

kubectl create namespace eclipse-che



namespace/eclipse-che created

# 24. Create a Service Account Secret

kubectl create secret generic azuredns-config --from-literal=clientSecret=\$
(az ad sp create-for-rbac --name \$CERT\_MANAGER\_SERVICE\_PRINCIPAL\_NAME --query
"password" --output tsv) --namespace eclipse-che



WARNING: Found an existing application instance: (id) 510dd1eb-481d-4218-bdcc-0d08b32b2c1d. We will patch it.

WARNING: The output includes credentials that you must protect. Be sure that you do not include these credentials in your code or check the credentials into your source control. For more information, see https://aka.ms/azadsp-cli

secret/azuredns-config created

25. Create the Issuer create file certificateIssuer.yaml with the following content:

apiVersion: cert-manager.io/v1 kind: Issuer metadata: name: che-letsencrypt namespace: eclipse-che spec: acme: solvers: - dns01: azureDNS: clientID: 83605b9f-4174-48a2-8c7f-9af5b50c19b4 clientSecretSecretRef: name: azuredns-config key: clientSecret subscriptionID: \$(az account show --query "id" --output tsv) tenantID: \$(az account show --query "tenantId" --output tsv) resourceGroupName: eclipse-che hostedZoneName: software-machines.online email: tzerras@ultra4.eu privateKeySecretRef: name: letsencrypt server: https://acme-v02.api.letsencrypt.org/directory

kubectl apply -f certificateIssuer.yaml



issuer.cert-manager.io/che-letsencrypt created

26. Create the Certificate

create file certificate.yaml with the following content:

```
apiVersion: cert-manager.io/v1
kind: Certificate
metadata:
   name: che-tls
   namespace: eclipse-che
spec:
   secretName: che-tls
   issuerRef:
      name: che-letsencrypt
      kind: Issuer
   commonName: 'software-machines.online'
```

dnsNames:

- 'software-machines.online'

```
- '*.software-machines.online'
```

usages:

- server auth
- digital signature
- key encipherment
- key agreement
- data encipherment

kubectl apply -f certificate.yaml



certificate.cert-manager.io/che-tls created

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	← → C A S portalazure.com/#	@ultra4ais.onmicrosoft.com/resource/sub	bscriptions/a559df32-05ab-4	ia8-bbfe-5171eda2bbde/r	sourceGroups/eclip	se-che/providers/Microsoft	G 🖈 💿	ay 12   11 (1) i		
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	Microsoft Azure	P Search resources	s, services, and docs (G+/)			D Q		ikos@ultra4ais.onmicr 🧶		
	Home > DNS zones >									
	ULTRA4 Advanced Information Systems - K. Tzerra	software-machine DNS zone	es.online ≉ ☆					×		
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	Filter for any field	Overview	a559df32-05ab-46a8-bbfe-5171eda2bbde ns3-36.azure-dns.org.							
	Name 1	Activity log				Name server 4 ns4-36.azure-dns.info.				
	software-machines.online ····	Access control (IAM)	Tags (edit)							
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		Settings	Search record sets							
		Properties	Name	Туре	TTL	Value	Alias resource type	Alias target		
		Locks	0	A	3600	4.232.113.246				
		Monitoring Alerts	ø	NS	172800	ns1-36.azure-dns.com. ns2-36.azure-dns.net. ns3-36.azure-dns.org. nsd 36.azure-dns.org.				
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# 27. Create the application Eclipse Che

\$ECLIPSE\_CHE\_APPLICATION\_DISPLAY\_NAME="Eclipse Che"

create file requiredResourceAccesses.json with the following content:

```
'[{"resourceAccess":[{"id":"34a47c2f-cd0d-47b4-a93c-
2c41130c671c","type":"Scope"}],"resourceAppId":"6dae42f8-4368-4678-
94ff-3960e28e3630"},{"resourceAccess":[{"id":"e1fe6dd8-ba31-4d61-89e7-
88639da4683d","type":"Scope"}],"resourceAppId":"00000003-0000-0000-
c000-00000000000"}]'
```

create file optionalClaims.json with the following content:

```
'{"accessToken":[{"additionalProperties":
[],"essential":false,"name":"groups","source":null}]}'
```

#### run the command:

```
az ad app create --display-name $ECLIPSE_CHE_APPLICATION_DISPLAY_NAME
--enable-access-token-issuance --required-resource-accesses
"@requiredResourceAccesses.json" --optional-claims
"@optionalClaims.json" --sign-in-audience AzureADMyOrg --web-
redirect-uris https://$DOMAIN NAME/oauth/callback
```

az ad app create \

--display-name \$ECLIPSE\_CHE\_APPLICATION\_DISPLAY\_NAME \

--enable-access-token-issuance  $\$ 

--required-resource-accesses '[{"resourceAccess":[{"id":"34a47c2f-cd0d-47b4-a93c-

2c41130c671c","type":"Scope"}],"resourceAppId":"6dae42f8-4368-4678-94ff-3960e28e3630"},

{"resourceAccess":[{"id":"e1fe6dd8-ba31-4d61-89e7-

88639da4683d","type":"Scope"}],"resourceAppId":"00000003-0000-0000-c000-00000000000"}]' \

--optional-claims '{"accessToken":[{"additionalProperties":

[],"essential":false,"name":"groups","source":null}]}' \

--sign-in-audience AzureADMyOrg \

--web-redirect-uris https://\$DOMAIN\_NAME/oauth/callback

2 Windows PowerShell	_	٥	×
PS C:Users\nickl\uindows-amd64> az ad app createdisplay-name \$ECLIPSE_OHE_APPLICATION_DISPLAY_NAMEenable-access-token-issuancerequired-resource-accesses "@requiredResourceAccesses.json"optional-claims "@op sign-in-audience AzureADMyOngweb-redirect-uris https://SOUADH_NAME/Callback	cionalClai	ims.json	^
<pre>[     "godata.context": "https://graph.microsoft.com/v1.0/Smetadata#applications/Sentity",     "addInis": [],     "acceptWappedClaiss": null,     "encomclinetadapplications': [],     "authDPermissionScopes:: [],     "preduthDreadsplications': [],     "requestedAccessTokenVersion': null     // appII': "addCodd.comScAtdI-922d-038c69c40115",     "appClat": "addCodd.comScAtdI-922d-938c69c40115",     "appClat": "addCodd.comScAtdI-922d-938c69c40115",     "appClat": "addCodd.comScAtdI-922d-938c69c4015",     "appClat": "addCodd.comScAtdI-922d-9</pre>			
"#pplicationTmplateI": null, "errification": null, "createGuteIme": 2024-03-22114:36:03.25727172",			
offaultheire(tor): nul, "description": nul, "description": nul, "disable#MyLincosoftStruts": nul, "disableMyLincosoftStruts": nul, "			
ld : 42/drtf="b3:-doad-badd-addeds/2ff", Infort[f="b1:s"[], Infort: null, "marketIng0b1: null, "supportion": null, "supportion": null,			
<pre>"" iSeviceOnlyAuthSupported": null, "iSeviceOnlyAuthSupported": null, "isFalbackWublic(ient": null, "keyfredentials": [], "notes": null, "optionalClais": {     accessToken": [</pre>			
<pre>{     "additionalProperties": [],     "essential": false,     "name": groups",     "source": null     }    </pre>			
<pre>"saml2Token": [] }, "porentalControlSettings": {     "countriesBlockeforMinors": [],</pre>			

{

"@odata.context": "https://graph.microsoft.com/v1.0/\$metadata#applications/\$entity", "addIns": [],

"api": {

"acceptMappedClaims": null,

"knownClientApplications": [],

"oauth2PermissionScopes": [],

"preAuthorizedApplications": [],

"requestedAccessTokenVersion": null

```
},
"appId": "ad0c6add-c605-4fd1-992d-038c69c84115",
"appRoles": [],
"applicationTemplateId": null,
"certification": null,
"createdDateTime": "2024-03-22T14:36:03.2572717Z",
"defaultRedirectUri": null.
"deletedDateTime": null,
"description": null,
"disabledByMicrosoftStatus": null,
"displayName": "Eclipse Che",
"groupMembershipClaims": null,
"id": "482aefe4-b5a5-46da-b400-a57ee0592f2f",
"identifierUris": [],
"info": {
 "logoUrl": null,
 "marketingUrl": null,
 "privacyStatementUrl": null,
 "supportUrl": null,
 "termsOfServiceUrl": null
},
"isDeviceOnlyAuthSupported": null,
"isFallbackPublicClient": null,
"keyCredentials": [],
"notes": null,
"optionalClaims": {
 "accessToken": [
  {
   "additionalProperties": [],
   "essential": false,
   "name": "groups",
   "source": null
  }
 ],
 "idToken": [],
 "saml2Token": []
},
"parentalControlSettings": {
 "countriesBlockedForMinors": [],
 "legalAgeGroupRule": "Allow"
},
"passwordCredentials": [],
"publicClient": {
 "redirectUris": []
},
```

```
"publisherDomain": "ultra4ais.onmicrosoft.com",
"requestSignatureVerification": null,
"requiredResourceAccess": [
 {
  "resourceAccess": [
   {
    "id": "34a47c2f-cd0d-47b4-a93c-2c41130c671c",
    "type": "Scope"
   }
  ],
  "resourceAppId": "6dae42f8-4368-4678-94ff-3960e28e3630"
 },
 {
  "resourceAccess": [
   {
    "id": "e1fe6dd8-ba31-4d61-89e7-88639da4683d",
    "type": "Scope"
   }
  ],
  "resourceAppId": "00000003-0000-0000-c000-00000000000"
 }
],
"samlMetadataUrl": null,
"serviceManagementReference": null,
"servicePrincipalLockConfiguration": null,
"signInAudience": "AzureADMyOrg",
"spa": {
 "redirectUris": []
},
"tags": [],
"tokenEncryptionKeyId": null,
"uniqueName": null,
"verifiedPublisher": {
 "addedDateTime": null,
 "displayName": null,
 "verifiedPublisherId": null
},
"web": {
 "homePageUrl": null,
 "implicitGrantSettings": {
  "enableAccessTokenIssuance": true,
  "enableIdTokenIssuance": false
 },
 "logoutUrl": null,
 "redirectUriSettings": [
```

```
{
    "index": null,
    "uri": "https://software-machines.online/oauth/callback"
    }
  ],
    "redirectUris": [
    "https://software-machines.online/oauth/callback"
  ]
}
```

```
Note: In previous installation there was an application instance ending at (..83d). Now is gone also the second "we will patch it" issue.
```

28. Update the application group membership claims

```
az ad app list --query "[?
displayName=='$ECLIPSE_CHE_APPLICATION_DISPLAY_NAME'].id" --output tsv
```



#### 482aefe4-b5a5-46da-b400-a57ee0592f2f

```
az ad app update --id $(az ad app list --query "[?
displayName=='$ECLIPSE_CHE_APPLICATION_DISPLAY_NAME'].id" --output
tsv) --set groupMembershipClaims=SecurityGroup
```

Windows PowerShell	_		$\times$
			^
<pre>PS C:\Users\nickl\windows-amd64&gt; az ad app listquery "[?displayName=='\$ECLIPSE_CHE_APPLICATION_DIS -output tsv 482aefed-b5a5-46da-b400-a57ee0592f2f PS C:\Users\nickl\windows-amd64&gt; az ad app updateid \$(az ad app listquery "[?displayName=='\$ECLI ION_DISPLAY_NAME'].id"output tsv)set groupMembershipClaims=SecurityGroup PS C:\Users\nickl\windows-amd64&gt; _</pre>	PLAY_NA IPSE_CH	ME'].id" E_APPLIC	- AT
			~

29. Install Che on Microsoft Azure Kubernetes Service

az account show --query "tenantId" --output tsv



1e6eb10c-ccbd-416a-9410-c3665d7ac07b

\$ECLIPSE\_CHE\_APPLICATION\_DISPLAY\_NAME="Eclipse Che"

az ad app list --query "[?
displayName=='\$ECLIPSE\_CHE\_APPLICATION\_DISPLAY\_NAME'].appId" --output
tsv

PS C:\Users\nickl\windows-amd64> \$ECLIPSE\_CHE\_APPLICATION\_DISPLAY\_NAME="Eclipse Che" PS C:\Users\nickl\windows-amd64> az ad app list --query "[?displayName=='\$ECLIPSE\_CHE\_APPLICATION\_DISPLAY\_NAME'].appId " --output tsv ad0c6add-c605-4fd1-992d-038c69c84115 PS C:\Users\nickl\windows-amd64> \_

ad0c6add-c605-4fd1-992d-038c69c84115

az ad app credential reset --id \$(az ad app list --query "[? displayName=='\$ECLIPSE\_CHE\_APPLICATION\_DISPLAY\_NAME'].id" --output tsv) --query "password" --output tsv



# cmC8Q~HeHpPu2OUvPelJxUcswzWMj6VNVoGNOdIT

create file che-cluster-patch.yaml with the following content:

```
spec:
    networking:
    auth:
        identityProviderURL: "https://sts.windows.net/le6eb10c-ccbd-
416a-9410-c3665d7ac07b/v2.0/"
        identityToken: access_token
        oAuthClientName: ad0c6add-c605-4fd1-992d-038c69c84115
        oAuthSecret: cmC8Q~HeHpPu2OUvPelJxUcswzWMj6VNVoGNOdlT
        oAuthScope: openid email profile 6dae42f8-4368-4678-94ff-
3960e28e3630/user.read
        gateway:
        deployment:
        containers:
        - env:
```

```
- name: OAUTH2 PROXY INSECURE OIDC ALLOW UNVERIFIED EMAIL
                value: "true"
              name: oauth-proxy
  components:
    cheServer:
       extraProperties:
         CHE OIDC AUTH SERVER URL: "https://sts.windows.net/1e6eb10c-
<mark>ccbd-416a-9410-c3665d7ac07b</mark>/v2.0/"
         CHE OIDC EMAIL CLAIM: unique name
spec:
 networking:
  auth:
   identityProviderURL: "https://sts.windows.net/$(az account show --query "tenantId" --output
tsv)/v2.0/"
   identityToken: access_token
   oAuthClientName: $(az ad app list --query "[?
displayName=='$ECLIPSE_CHE_APPLICATION_DISPLAY_NAME'].appId" --output tsv)
   oAuthSecret: $(az ad app credential reset --id $(az ad app list --query "[?
displayName=='$ECLIPSE_CHE_APPLICATION_DISPLAY_NAME'].id" --output tsv) --
query "password" --output tsv)
   oAuthScope: openid email profile 6dae42f8-4368-4678-94ff-3960e28e3630/user.read
   gateway:
    deployment:
     containers:
     - env:
      - name: OAUTH2_PROXY_INSECURE_OIDC_ALLOW_UNVERIFIED_EMAIL
       value: "true"
      name: oauth-proxy
 components:
  cheServer:
   extraProperties:
    CHE_OIDC_AUTH_SERVER_URL: "https://sts.windows.net/$(az account show --
guery "tenantId" --output tsv)/v2.0/"
   CHE_OIDC_EMAIL_CLAIM: unique_name
```

#### Run the following command:

```
chectl server:deploy --platform=k8s --che-operator-cr-patch-yaml=che-
cluster-patch.yaml --skip-oidc-provider-check --skip-cert-manager --
domain=$DOMAIN NAME
```



- > Current Kubernetes context: 'eclipse-che-admin'
- √ Verify Kubernetes API
- √ Kubernetes preflight checklist
- √ Verify if kubectl is installed...[OK]
- √ Verify domain is set...[OK]
- √ Create Namespace eclipse-che...[Exists]
- ↓ Install Cert Manager v1.8.2 [skipped]
- √ Start following Eclipse Che installation logs...[OK]
- $\checkmark$  Deploy Eclipse Che operator
- $\checkmark$  Install Dev Workspace operator
- √ Create Namespace devworkspace-controller...[Created]
- √ Create Dev Workspace operator resources...[Created]
- √ Wait for Dev Workspace operator ready...[OK]
- √ Create ServiceAccount che-operator...[Created]
- √ Create RBAC
- √ Create Role che-operator-leader-election...[Created]
- √ Create Role che-operator...[Created]
- √ Create RoleBinding che-operator-leader-election...[Created]
- √ Create RoleBinding che-operator...[Created]
- √ Create RoleBinding eclipse-che-che-operator...[Created]
- √ Create RoleBinding eclipse-che-che-operator...[Created]
- √ Create Certificate che-operator-serving-cert...[Created]
- √ Create Issuer che-operator-selfsigned-issuer...[Created]
- √ Create Service che-operator-service...[Created]

√ Create CRD checlusters.org.eclipse.che...[Created]

√ Waiting...[OK]

√ Create Deployment che-operator...[Created]

 $\checkmark$  Eclipse Che Operator pod bootstrap

√ Scheduling...[OK]

√ Downloading images...[OK]

√ Starting...[OK]

 $\forall \ Create \ Validating We bhook Configuration \ org.eclipse.che...[Created]$ 

√ Create MutatingWebhookConfiguration org.eclipse.che...[Created]

√ Create CheCluster Custom Resource...[Created]

 $\checkmark$  Wait for Eclipse Che ready

 $\checkmark$  Plugin Registry pod bootstrap

```
√ Scheduling...[OK]
```

```
√ Downloading images...[OK]
```

√ Starting...[OK]

√ Dashboard pod bootstrap

√ Scheduling...[OK]

√ Downloading images...[OK]

√ Starting...[OK]

√ Gateway pod bootstrap

√ Scheduling...[OK]

√ Downloading images...[OK]

√ Starting...[OK]

 $\checkmark$  Eclipse Che Server pod bootstrap

√ Scheduling...[OK]

√ Downloading images...[OK]

√ Starting...[OK]

√ Wait Eclipse Che active...[OK]

√ Retrieving Eclipse Che self-signed CA certificate...[OK: C:\Users\nickl\AppData\Local\Temp\ cheCA.crt]

√ Prepare post installation output...[OK]

√ Show important messages

 $\checkmark$  Eclipse Che next has been successfully deployed.

√ Documentation : https://www.eclipse.org/che/docs/

 $\sqrt{}$ 

√ Plug-in Registry : https://software-machines.online/plugin-registry/v3/

√ Devfile Registry : https://registry.devfile.io/

 $\checkmark$  -----

Command server: deploy has completed successfully in 05:24.

chectl dashboard:open

We receive 500 error and non-secure application