Date: Mon, 10 Jun 2024 02:24:48 -0700 (PDT)

Message-ID: <690074839.61.1718011488897@vswcrpcnfap02.crp.allegiantair.com>

Subject: Exported From Confluence

MIME-Version: 1.0

Content-Type: multipart/related;

boundary="----=\_Part\_60\_1355306874.1718011488897"

------=\_Part\_60\_1355306874.1718011488897

Content-Type: text/html; charset=UTF-8

Content-Transfer-Encoding: quoted-printable

Content-Location: file:///C:/exported.html

<html xmlns:o=3D'urn:schemas-microsoft-com:office:office'

xmlns:w=3D'urn:schemas-microsoft-com:office:word'

xmlns:v=3D'urn:schemas-microsoft-com:vml'

xmlns=3D'urn:w3-org-ns:HTML'>

<head>

<meta http-equiv=3D"Content-Type" content=3D"text/html; charset=3Dutf-8=

">

<title>Setup access to Mulesoft kubernetes environments</title>

<!--[if gte mso 9]>

<xml>

<o:OfficeDocumentSettings>

<o:TargetScreenSize>1024x640</o:TargetScreenSize>

<o:PixelsPerInch>72</o:PixelsPerInch>

<o:AllowPNG/>

</o:OfficeDocumentSettings>

<w:WordDocument>

<w:View>Print</w:View>

<w:Zoom>90</w:Zoom>

<w:DoNotOptimizeForBrowser/>

</w:WordDocument>

</xml>

<![endif]-->

<style>

<!--

@page Section1 {

size: 8.5in 11.0in;

margin: 1.0in;

mso-header-margin: .5in;

mso-footer-margin: .5in;

mso-paper-source: 0;

}

table {

border: solid 1px;

border-collapse: collapse;

}

table td, table th {

border: solid 1px;

padding: 5px;

}

td {

page-break-inside: avoid;

}

tr {

page-break-after: avoid;

}

div.Section1 {

page: Section1;

}

/\* Confluence print stylesheet. Common to all themes for print medi=

a \*/

/\* Full of !important until we improve batching for print CSS \*/

@media print {

#main {

padding-bottom: 1em !important; /\* The default padding of 6em is to=

o much for printouts \*/

}

body {

font-family: Arial, Helvetica, FreeSans, sans-serif;

font-size: 10pt;

line-height: 1.2;

}

body, #full-height-container, #main, #page, #content, .has-personal-sid=

ebar #content {

background: #fff !important;

color: #000 !important;

border: 0 !important;

width: 100% !important;

height: auto !important;

min-height: auto !important;

margin: 0 !important;

padding: 0 !important;

display: block !important;

}

a, a:link, a:visited, a:focus, a:hover, a:active {

color: #000;

}

#content h1,

#content h2,

#content h3,

#content h4,

#content h5,

#content h6 {

font-family: Arial, Helvetica, FreeSans, sans-serif;

page-break-after: avoid;

}

pre {

font-family: Monaco, "Courier New", monospace;

}

#header,

.aui-header-inner,

#navigation,

#sidebar,

.sidebar,

#personal-info-sidebar,

.ia-fixed-sidebar,

.page-actions,

.navmenu,

.ajs-menu-bar,

.noprint,

.inline-control-link,

.inline-control-link a,

a.show-labels-editor,

.global-comment-actions,

.comment-actions,

.quick-comment-container,

#addcomment {

display: none !important;

}

/\* CONF-28544 cannot print multiple pages in IE \*/

#splitter-content {

position: relative !important;

}

.comment .date::before {

content: none !important; /\* remove middot for print view \*/

}

h1.pagetitle img {

height: auto;

width: auto;

}

.print-only {

display: block;

}

#footer {

position: relative !important; /\* CONF-17506 Place the footer at en=

d of the content \*/

margin: 0;

padding: 0;

background: none;

clear: both;

}

#poweredby {

border-top: none;

background: none;

}

#poweredby li.print-only {

display: list-item;

font-style: italic;

}

#poweredby li.noprint {

display: none;

}

/\* no width controls in print \*/

.wiki-content .table-wrap,

.wiki-content p,

.panel .codeContent,

.panel .codeContent pre,

.image-wrap {

overflow: visible !important;

}

/\* TODO - should this work? \*/

#children-section,

#comments-section .comment,

#comments-section .comment .comment-body,

#comments-section .comment .comment-content,

#comments-section .comment p {

page-break-inside: avoid;

}

#page-children a {

text-decoration: none;

}

/\*\*

hide twixies

the specificity here is a hack because print styles

are getting loaded before the base styles. \*/

#comments-section.pageSection .section-header,

#comments-section.pageSection .section-title,

#children-section.pageSection .section-header,

#children-section.pageSection .section-title,

.children-show-hide {

padding-left: 0;

margin-left: 0;

}

.children-show-hide.icon {

display: none;

}

/\* personal sidebar \*/

.has-personal-sidebar #content {

margin-right: 0px;

}

.has-personal-sidebar #content .pageSection {

margin-right: 0px;

}

.no-print, .no-print \* {

display: none !important;

}

}

-->

</style>

</head>

<body>

<h1>Setup access to Mulesoft kubernetes environments</h1>

<div class=3D"Section1">

<h1 id=3D"SetupaccesstoMulesoftkubernetesenvironments-Basicsetup-to=

ols">Basic setup - tools</h1>

<h3 id=3D"SetupaccesstoMulesoftkubernetesenvironments-NOTE:Ifyoualreadyhave=

accesstoAWS,youcanskipsomesectionsifyouknowwhatyouaredoingandwhat'sthesecti=

onabout.Alsothereisprobablyabetterfolderstructure,thisisjusthowIdidit,feelf=

reetoorganizeittoyourliking."><span style=3D"color: rgb(255,0,0);">NOTE: If=

you already have access to AWS, you can skip some sections if you know wha=

t you are doing and what's the section about. Also there is probably a bett=

er folder structure, this is just how I did it, feel free to organize it to=

your liking.</span></h3>

<p><br></p>

<ul>

<li><strong>create folder structure in your home folder</strong></li>

</ul>

<p><br></p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Emacs" data-theme=3D"Emacs">mkdir -p ~/muleso=

ft/tools

cd ~/mulesoft/tools</pre>=20

</div>

</div>

<p><br></p>

<ul>

<li><strong>kubectl download and install</strong></li>

</ul>

<p><br></p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Emacs" data-theme=3D"Emacs">cd ~/mulesoft/too=

ls

curl -LO "https://dl.k8s.io/release/$(curl -L -s https://dl.k8s.io/release/=

stable.txt)/bin/linux/amd64/kubectl"

sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl

kubectl version --client

kubectl version --client --output=3Dyaml

kubectl cluster-info</pre>=20

</div>

</div>

<p>Note : The kubectl version should be the same as the version in the jump=

host, otherwise you might see an error as "<span><span class=3D"ui-provider=

eo axx axy axz aya ayb ayc ayd aye ayf ayg ayh ayi ayj ayk ayl aym ayn ayo=

ayp ayq ayr ays ayt ayu ayv ayw ayx ayy ayz aza azb azc azd aze">error: ex=

ec plugin: invalid apiVersion "<a class=3D"external-link" href=3D"http://cl=

ient.authentication.k8s.io/v1alpha1" rel=3D"nofollow">client.authentication=

.k8s.io/v1alpha1</a></span></span>" . The current kubectl version in jumpho=

st is <strong>v1.23.9</strong> .&nbsp;<br><br>To download v1.23.9 version :=

&nbsp;<strong><span style=3D"color: rgb(34,34,34);">curl -LO <a class=3D"e=

xternal-link" href=3D"https://dl.k8s.io/release/v1.28.1/bin/linux/amd64/kub=

ectl" rel=3D"nofollow">https://dl.k8s.io/release/v1.23.9/bin/linux/amd64/ku=

bectl</a>&nbsp;<br>&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; =

&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp=

; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;&nbs=

p;<br>&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;=

&nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbs=

p; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; sudo install -o =

root -g root -m 0755 kubectl /usr/local/bin/kubectl<br><br></span></strong>=

</p>

<ul>

<li><strong>helm download and install</strong></li>

</ul>

<p><br></p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Emacs" data-theme=3D"Emacs">cd ~/mulesoft/too=

ls

wget https://get.helm.sh/helm-v3.8.1-linux-amd64.tar.gz

tar -xvf helm-v3.8.1-linux-amd64.tar.gz=20

cp linux-amd64/helm /usr/local/bin/helm

sudo cp linux-amd64/helm /usr/local/bin/helm</pre>=20

</div>

</div>

<p><br></p>

<ul>

<li><strong>awscliv2 download and install</strong></li>

</ul>

<p><br></p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Emacs" data-theme=3D"Emacs">mkdir ~/mulesoft/=

tools/awscliv2

cd ~/mulesoft/tools/awscliv2

curl "https://awscli.amazonaws.com/awscli-exe-linux-x86\_64.zip" -o "awscliv=

2.zip"

unzip awscliv2.zip&nbsp;

sudo ./aws/install&nbsp;

aws --ver</pre>=20

</div>

</div>

<p><br></p>

<ul>

<li><strong>aws-iam-authenticator download and install</strong></li>

</ul>

<p><br></p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Emacs" data-theme=3D"Emacs">mkdir ~/mulesoft/=

tools/aws-iam-authenticator

cd ~/mulesoft/tools/aws-iam-authenticator

curl -o aws-iam-authenticator https://s3.us-west-2.amazonaws.com/amazon-eks=

/1.21.2/2021-07-05/bin/linux/amd64/aws-iam-authenticator

chmod +x ./aws-iam-authenticator

mkdir -p $HOME/bin &amp;&amp; cp ./aws-iam-authenticator $HOME/bin/aws-iam-=

authenticator &amp;&amp; export PATH=3D$PATH:$HOME/bin

echo 'export PATH=3D$PATH:$HOME/bin' &gt;&gt; ~/.bashrc

aws-iam-authenticator help</pre>=20

</div>

</div>

<p><br></p>

<ul>

<li><strong>aws\_utils clone the repo and install</strong></li>

</ul>

<p><br></p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Emacs" data-theme=3D"Emacs">git clone --branc=

h better\_auth ssh://git@git.allegiantair.com:7999/devops/aws\_utils.git

python3 -m pip install aws\_utils/

awsauth -u yavor.marinov --refresh

use 'awsauth' to login and start your token</pre>=20

</div>

</div>

<p><br></p>

<ul>

<li><strong>rtfctl</strong></li>

</ul>

<p><code>only needed when interacting with Mulesoft Runtime Fabric</code>&n=

bsp;</p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeHeader panelHeader pdl" style=3D"border-bottom-width: 1px=

;">

<b>Install rtfctl</b>

</div>

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Midnight" data-theme=3D"Midnight">curl -L htt=

ps://anypoint.mulesoft.com/runtimefabric/api/download/rtfctl/latest -o rtfc=

tl

sudo chmod +x rtfctl

mkdir ~/.local\_apps &amp;&amp; mv rtfctl ~/.local\_apps

sudo ln ~/.local\_apps/rtfctl /usr/local/bin/rtfctl</pre>=20

</div>

</div>

<h1 id=3D"SetupaccesstoMulesoftkubernetesenvironments-AccessMulesoftenviron=

ment">Access Mulesoft environment</h1>

<p><br></p>

<ul>

<li><strong>authenticate with awsauth - Example</strong></li>

</ul>

<p><span style=3D"color: rgb(255,102,0);"><strong>NOTE: Use g4aws-mule-dev\_=

241387238312\_AWS-Role-SysEng for QA environment</strong></span></p>

<p>Create <strong>.aws</strong> and <strong>.kube</strong> folder in your h=

ome directory and then proceed with the below steps.</p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Emacs" data-theme=3D"Emacs">[yavor.marinov@XY=

Z]$ awsauth&nbsp;

Allegiant Air - awsauth v0.0.10

Username (yavor.marinov):&nbsp;

Password:&nbsp;

SAML assertion includes 9 roles, now generating STS credentials.

Credential written for g4aws-mule-dev\_241387238312\_AWS-Role-SysEng, Expires=

in 1 hour.

Credential written for g4aws-mule-qa\_286984770123\_AWS-Role-SysEng, Expires =

in 1 hour.

Credential written for g4aws-ops-util\_405865296163\_AWS-Role-SysEng, Expires=

in 1 hour.

Credential written for g4aws-mule-stage\_510308003276\_AWS-Role-SysEng, Expir=

es in 1 hour.

Credential written for g4aws-sdlc\_697867080916\_AWS-Role-SysEng, Expires in =

1 hour.

Credential written for g4aws-mule-prod\_737124451512\_AWS-Role-SysEng, Expire=

s in 1 hour.

Credential written for g4aws-prod\_737225616887\_AWS-Role-SysEng, Expires in =

1 hour.

Credential written for g4aws-master\_759062848102\_AWS-Role-SysEng, Expires i=

n 1 hour.

Credential written for g4aws-prod-dr\_879624941994\_AWS-Role-SysEng, Expires =

in 1 hour.

----------------------------------------------------------------

Your new access key pair(s) has been stored in the AWS configuration file

To use this credential, call the AWS CLI with the --profile option (e.g. aw=

s --profile &lt;profilename&gt; sts get-caller-identity).

----------------------------------------------------------------</pre>=20

</div>

</div>

<p><br></p>

<ul>

<li class=3D"auto-cursor-target"><strong>You can see your roles in the aws =

credentials file</strong></li>

</ul>

<p><br></p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Emacs" data-theme=3D"Emacs">cat ~/.aws/creden=

tials</pre>=20

</div>

</div>

<ul>

<li><strong>You can see a profile identity for example - clear your profile=

and reassign it to the desired environment, example is STG</strong></li>

</ul>

<p><br></p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Emacs" data-theme=3D"Emacs">export AWS\_DEFAUL=

T\_PROFILE=3D

export AWS\_DEFAULT\_PROFILE=3D"g4aws-mule-stage\_510308003276\_AWS-Role-SysEng=

"</pre>=20

</div>

</div>

<p><br></p>

<ul>

<li><strong>Check your current identity setup</strong></li>

</ul>

<p><br></p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Emacs" data-theme=3D"Emacs">aws sts get-calle=

r-identity</pre>=20

</div>

</div>

<p><br></p>

<ul>

<li>Clone Anypoint Mulesoft repositories for the desired environment</li>

</ul>

<p><br></p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Emacs" data-theme=3D"Emacs"># DEV

clone ssh://git@git.allegiantair.com:7999/mule/anypoint-rtf-dev.git

# QA

clone ssh://git@git.allegiantair.com:7999/mule/anypoint-rtf-qa.git

# STG

clone ssh://git@git.allegiantair.com:7999/mule/anypoint-rtf-stage.git

# PRD

clone ssh://git@git.allegiantair.com:7999/mule/anypoint-rtf-prod.git</pre>=

=20

</div>

</div>

<p><br></p>

<ul>

<li>Setup your kubeconfig - Example for STG afrer the repo is cloned</li>

</ul>

<p><br></p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Emacs" data-theme=3D"Emacs">cd anypoint-rtf-s=

tage

cd eks/

cat kubeconfig\_rtf-stage &gt; ~/.kube/config&nbsp;</pre>=20

</div>

</div>

<p><br></p>

<ul>

<li>Test it - you should see nodes and pods listed</li>

</ul>

<p><br></p>

<div class=3D"code panel pdl" style=3D"border-width: 1px;">

<div class=3D"codeContent panelContent pdl">=20

<pre class=3D"syntaxhighlighter-pre" data-syntaxhighlighter-params=3D"brush=

: bash; gutter: false; theme: Emacs" data-theme=3D"Emacs">kubectl config cu=

rrent-context

kubectl get nodes

kubectl get pods -A</pre>=20

</div>

</div>

<p><br></p>

<p><br></p>

<p><br></p>

<p><br></p>

</div>

</body>

</html>

------=\_Part\_60\_1355306874.1718011488897--