101: Creating a Service using the Portal

Thursday, November 19, 2015

1:04 PM

To access Azure Container Service, you will need an Azure subscription. If you don't have one then sign up for a [free trial](http://www.windowsazure.com/en-us/pricing/free-trial/?WT.mc_id=AA4C1C935).

Select an ARM template from [rgardler's fork](https://github.com/rgardler/azure-quickstart-templates) of the Azure QuickStarts repo in Github. All Azure Container Service Templates start with 'acs-'

There are two templates of particular interest:

* Mesos: <https://github.com/rgardler/azure-quickstart-templates/tree/acs/acs-mesos-full-template>
* Swarm: <https://github.com/rgardler/azure-quickstart-templates/tree/acs/acs-swarm-full-template>

This will take you to the portal and present a form that looks something like this:

Machine generated alternative text:
Custom deployment 
Deploy from a custom template 
* Template 
Edit template 
* Parameters 
Edit parameters 
* Subscription 
Microsoft Azure Internal Consum... 
* Resource group 
Select a resource group 
Or create new 
* Resource group location 
Japan East 
Legal terms 
Review terms and agreements 
V Pin to dashboard 
Create 
x 
Parameters 
Customize your template parameters 
ADMINUSERNAME (string) O 
azureuser 
* ADMINPASSWORD (securestring) O 
* DNSNAMEPREFIX (string) O 
AGENTCOUNT cnt) O 
MASTERCOUNT (int) O 
SSHRSAPUBLICKEY (string) O 
disabled 
x 

To complete the form:

|  |  |
| --- | --- |
| ADMINUSERNAME | This is the username for your user account on each of the Virtual Machines that will be created |
| ADMINPASSWORD | This is the password used for the user account on each Virtual Machine created. It is recommended that you use SSH keys for production environments. See below. |
| DNSNAMEPREFIX | This must be a world unique value. It will be used to create DNS names for each of the key parts of the service. More information below. |
| AGENTCOUNT | This is the number of Virtual Machines to create in your cluster that will host containers |
| MASTERCOUNT | This is the number of Virtual Machines to configure as masters for your cluster. You can select 1, but this will not provide any resilience in your cluster and is only recommended for testing. Most users will want to pick 3 or 5 here. |
| SSHRSAPUBLICKEY | It is recommended that you use SSH for authentication against the Virtual Machines. This is where you add your public key. At the time of writing you can set this to "disabled" which means no SSH key will be used. This is not recommended for production environments. |

Once completed your parameters form will look something like this:

Machine generated alternative text:
Parameters 
Customize your template parameters 
ADMINUSERNAME (string) O 
azureuser 
* ADMINPASSWORD (securestring) O 
* DNSNAMEPREFIX (string) O 
acsexample 
AGENTCOUNT cnt) O 
MASTERCOUNT (int) O 
SSHRSAPUBLICKEY (string) O 
)w6faVlhdBYVoc/lJcyupgH azureuser@linuwm 
x 

Click OK. The parameters blade will disappear.

If you have more than one subscription ensure the right one is selected in the "subscription" blade:

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V Pin to dashboard 
Create 
x 
Subscription 
CBA Azure Subscription 
ed268cc2-f790-402f-8a... 
DTMS Connect 2015 Keynote 
86c81ff4-0d5d4de4-af... 
Forums Subscription 
8679c8be-3b05-49dg-... 
Microsoft Azure Internal Co... 
325e7c34-ggfb-4190-a... 
VM Depot Main Subscription 
cffbdOOf-gedf-41 fg- 8f7.. 
x 

Next we need to provide a resource group name. You can select an existing one or select a new one as shown below:

Machine generated alternative text:
Custom deployment 
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* Template 
Edit template 
Parameters 
Edit parameters 
* Subscription 
Microsoft Azure Internal Consum... 
Create a new resource group 
acsexample 
Select a resource group 
* Resource group location 
Japan East 
Legal terms 
Review terms and agreements 
V Pin to dashboard 
Create 
x 

For the preview the service is only available in Japan East, more regions are coming so do not change the resource group location.

You then need to review and agree to the Legal terms by opening the Legal Terms blade and clicking "Purchase". Note that during preview there is no charge for the Azure Container Service beyond the normal Azure charges for virtual machines, storage, networking etc. We have yet to decide on a pricing model beyond preview.

Machine generated alternative text:
Custom deployment 
Deploy from a custom template 
* Template 
Edit template 
Parameters 
Edit parameters 
* Subscription 
Microsoft Azure Internal Consum... 
Create a new resource group 
acsexample 
Select a resource group 
* Resource group location 
Japan East 
Legal terms 
Review terms and agreements 
V Pin to dashboard 
Create 
x 
Purchase 
Deploying this template will result in various actions being performed, which may include the 
deployment of one of more Azure resources or Marketplace offerings and/or transmission of the 
information pu provided as part of the deployment process to one or more parties, as specified in 
the template. You are responsible for reviewing the text of the template to determine which actions 
will be performed and which resources or offerings will be deployed, and for locating and reviewing 
the pricing and legal terms associated with those resources or offerings. 
Current retail prices for Azure resources are set forth here and may not reflect discounts applicable 
to your Azure subscription. 
Prices for Marketplace offerings are set forth here, and the legal terms associated with any 
Marketplace offering may be found in the Azure management portal; both are subject to change at 
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Tenplate deployrnelt is intended for advanced users only. If you are uncertain which actions will 
be performed by this template, which resources or offerings will be deployed, or what prices or legal 
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By clicking "Purchase," I (a) agree to the legal terms and privacy statement(s) provided above as well 
as the legal terms and privacy statement(s) associated with each Marketplace offering that wi I be 
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Marketplace Terms for additional terms. 
Purchase 
x 

Finally, click "Create". You will return to your dashboard and, assuming you did not uncheck "Pin to dashboard" on the deployment blade, you will see an animated tile that looks something like this:

Machine generated alternative text:
Submitting deployment for 
Template deployment 

After a short while this will change from "submitting deployment for template deployment" to "deploying template deployment":

Machine generated alternative text:
zuatu,4qdap 
aleldLua1 5ugÅ01daa 

Now sit back and relax for a few minutes (exactly how long depends on how many agents and hosts you requested. But expect it to be 5-15 minutes (the 40 machine cluster I created for this example took 14 minutes). Once complete you will see some blades that show the resources just created:

Machine generated alternative text:
• acsexample 
Resource group 
Settings 
Add 
Delete 
Subscription ID 
df746c67705 
Location 
Japan East 
All settings 
ADD TILES O 
ADD TILES O 
Essentials 
Subscription name 
Microsoft Azure Internal Consumption 
Last deployment 
1 1/19/2015 (Succeeded) 
Summary 
Resources 
agentAvailabilitySet 
masterAvailabilitySet 
agentO 
agentl 
agent10 
agentll 
agent12 
agent13 
agent14 
Monitoring 

Next Steps

Now that you have a cluster up and running you can take one of two recommended paths:

1. If you are familiar with Mesos and Docker then read [201: Deploying a Docker Container](onenote:#201%20Deploying%20a%20Docker%20Container&section-id={CFB761B4-3A3C-488C-A3F0-A31102E5F7F5}&page-id={954E5296-6FD9-463E-84ED-03666D02182A}&end&base-path=https://d.docs-df.live.net/d66b9407fb17d322/Documents/COntainer%20Service/Docs.one)
2. If you are new to Mesos and Docker then read [110: Application Management through the UI](onenote:#110%20Cluster%20Management%20through%20the%20UI&section-id={CFB761B4-3A3C-488C-A3F0-A31102E5F7F5}&page-id={BEEF7203-B3D7-459F-B998-59001FDBAB9A}&end&base-path=https://d.docs-df.live.net/d66b9407fb17d322/Documents/COntainer%20Service/Docs.one)