Demo: Run Azure Container Instances by using the Cloud Shell

In this demo you'll learn how to perform the following actions:

- Create a resource group for the container
- Create a container
- Verify the container is running

Prerequisites

- An Azure subscription, if you don't have an Azure subscription, create a free account before you begin.
 - https://azure.microsoft.com/free/

Create the resource group

- 1. Sign into the Azure portal with your Azure subscription.
- 2. Open the Azure Cloud Shell from the Azure portal using the Cloud Shell icon, and select Bash as the shell option.



3. Create a new resource group with the name az204-aci-rg so that it will be easier to clean up these resources when you are finished with the module. Replace <myLocation> with a region near you.

```
az group create --name az204-aci-rg --location <myLocation>
                                                                                 autorización.
                           autorización.
```

Create a container

You create a container by providing a name, a Docker image, and an Azure resource group to the az container create command. You will expose the container to the Internet by specifying a DNS name label.

1. Create a DNS name to expose your container to the Internet. Your DNS name must be unique, run this command from Cloud Shell to create a Bash variable that holds a unique name.

```
DNS_NAME_LABEL=aci-demo-$RANDOM
```

2. Run the following az container create command to start a container instance. Be sure to replace the <myLocation> with the region you specified earlier. It will take a few minutes for the operation to complete.

```
az container create \
--resource-group az204-aci-rg \
--name mycontainer \
--image microsoft/aci-helloworld \
--ports 80 \
--dns-name-label $DNS_NAME_LABEL \
--location <myLocation>
```

In the command above, \$DNS_NAME_LABEL specifies your DNS name. The image name, microsoft/acihelloworld, refers to a Docker image hosted on Docker Hub that runs a basic Node.js web application.

Verify the container is running

1. When the az container create command completes, run az container show to check its status.

```
az container show \
--resource-group az204-aci-rg \
--name mycontainer \
--query "{FQDN:ipAddress.fqdn,ProvisioningState:provisioningState}" \
--out table
```

You see your container's fully qualified domain name (FQDN) and its provisioning state. Here's an example.

```
FQDN
                                        ProvisioningState
                                        Succeeded
aci-demo.eastus.azurecontainer.io
```

- ✓ Note: If your container is in the Creating state, wait a few moments and run the command again until you see the Succeeded state.
- 2. From a browser, navigate to your container's FQDN to see it running. You may get a warning that the site isn't safe. Este documento perter

Clean up resources

When no longer needed, you can use the az group delete command to remove the resource group, the container registry, and the container images stored there.

```
az group delete --name az204-aci-rg --no-wait --yes
```

