Data Repositories:
CKAN & the Azure DataMarket

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Microsoft Research

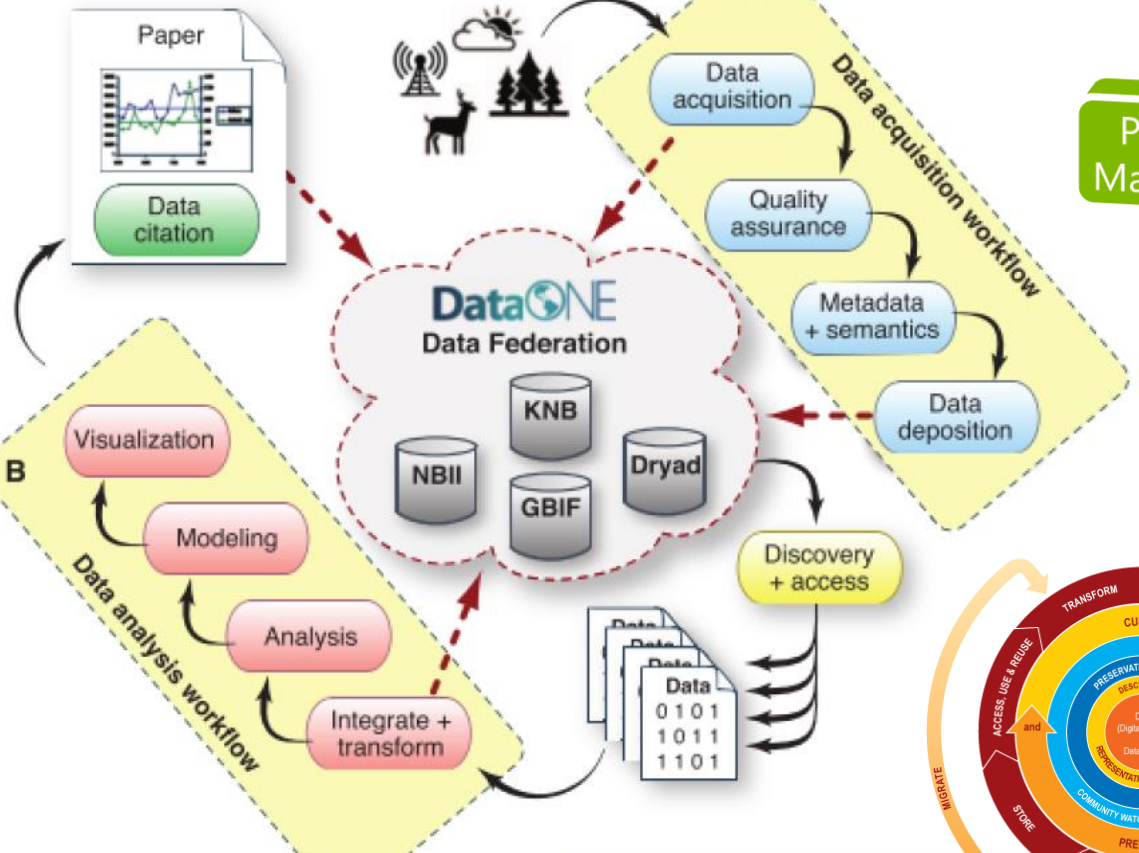
Microsoft

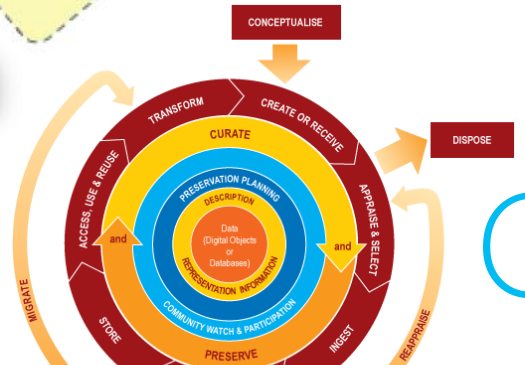
Data Repositories

- Types of data repositories
  - National
  - Institutional
  - Disciplinary
  - Multi-disciplinary
  - Project-Specific
  - PLoS One. 2013; 8(11): 10.1371/journal.pone.0078080

- Discovery of Data Repositories
  - DataBib.org (Purdue U)
  - R3Data.org – Registry of Research Data Repositories (Berlin iSchool)

Data Workflows





Curation Workflows

Takeaways

1. Consider role of data repositories *broadly* along the full lifecycle of data

2. Especially at the birth/ingest and the discovery/reuse phases

3. Awareness of some ways that Azure can help you today!

Potential uses of the Cloud

- Data repositories
  - Hosted repositories (e.g. figshare)
  - Blob storage for local data repositories (e.g. EPrints)
  - Offsite backup and ‘dark archiving’ (e.g. DuraCloud)
- Large scale data analysis
- Cloud services for data curation
- Discovery

CKAN Data Repository Software

Publish & find datasets

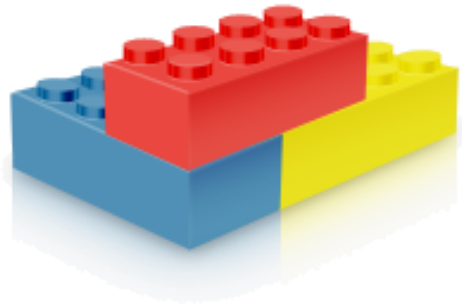
Publish datasets via import or through a web interface. Search by keyword or filter by tags. See dataset information at a glance. Full change history lets you easily undo changes or view old versions.

Store & manage data

Store the raw data and metadata. Visualise structured data with interactive tables, graphs and maps. Get statistics and usage metrics for your datasets. Search geospatial data on a map by area.

Engage with users & others

Federate networks with other CKAN nodes. Theme with CSS or integrate with a CMS. Build a community with extensions that allow users to comment on and follow datasets.



Customise & extend

Use the API's rich programming interface, and benefit from over 60 extensions including link checking, comments, and analytics. CKAN's Open Source licence allows you to download and run it for free.

CKAN vs. DKAN

- From OKFN
- http://ckan.org/

- Open Source
- Existing Repositories
  - http://ckan.org/instances/ (70)

- On Azure
  - Runs as two Azure VMs (web + db)

- From Nuams
- http://nucivic.com/dkan

- Open Source
- CKAN + Drupal

- On Azure
  - Runs as Azure website

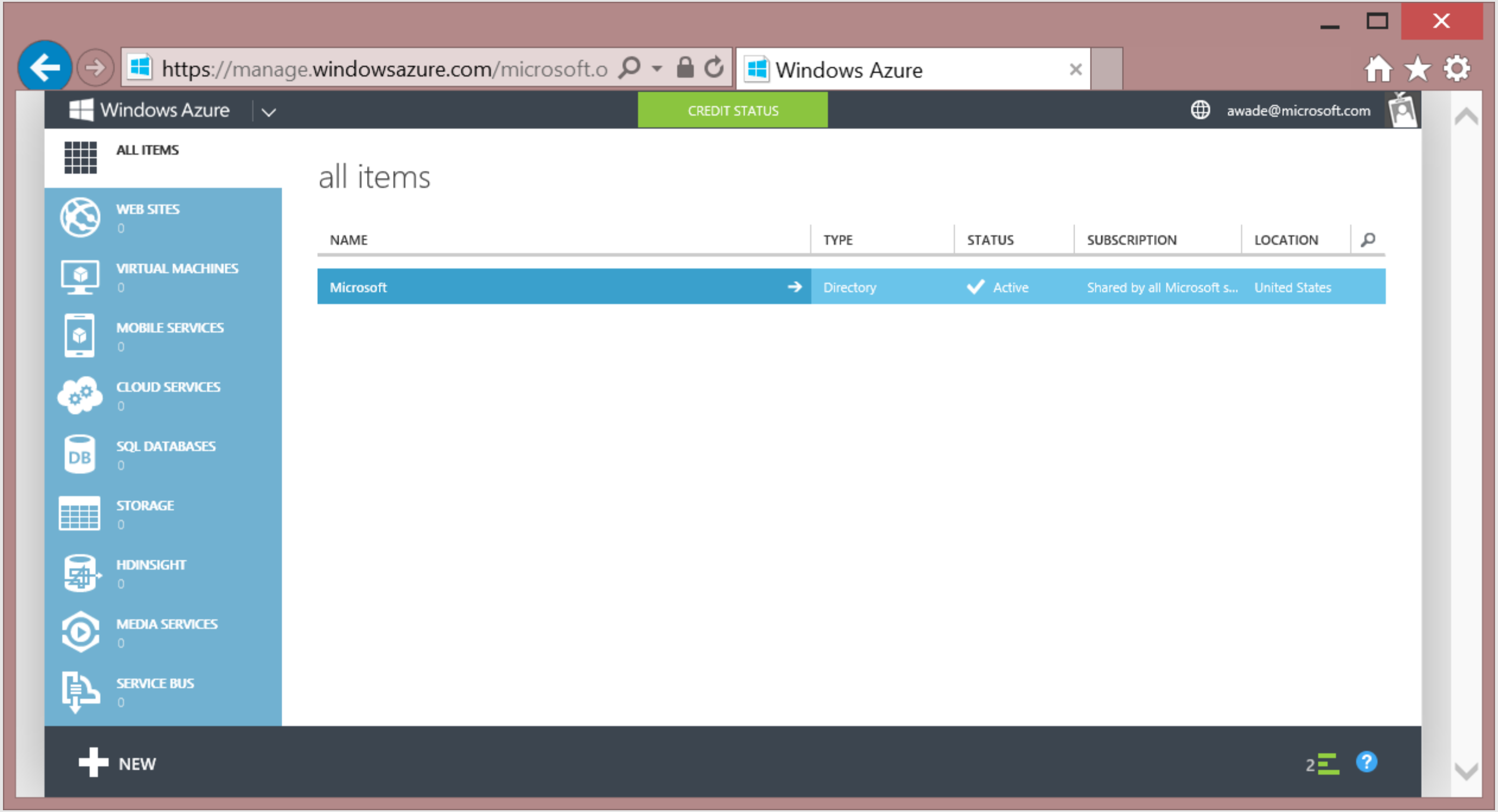
CKAN

demo

Creating a CKAN repository in Azure

1. Copy two VM Images from the VM Depot
   a) CKAN 2.1 DB
   b) CKAN 2.1 Web
2. Create a VM instance of each
   a) Create 2nd VM instance within same cloud service as first
   b) Link the VMs

- Step by step instructions here:
  - https://github.com/okfn/ckan/wiki/How-to-install-CKAN-2.0-on-Azure-from-VM-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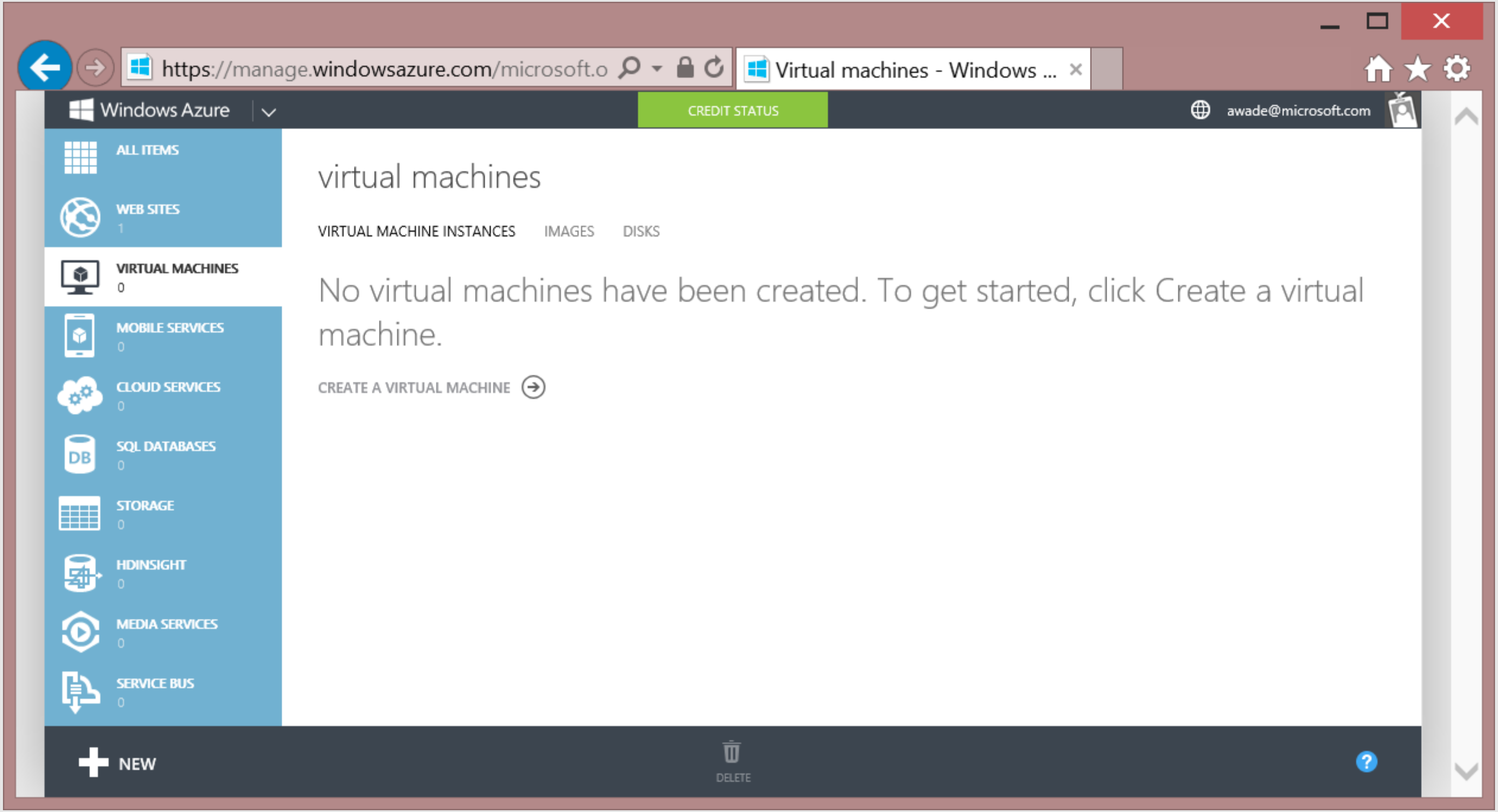
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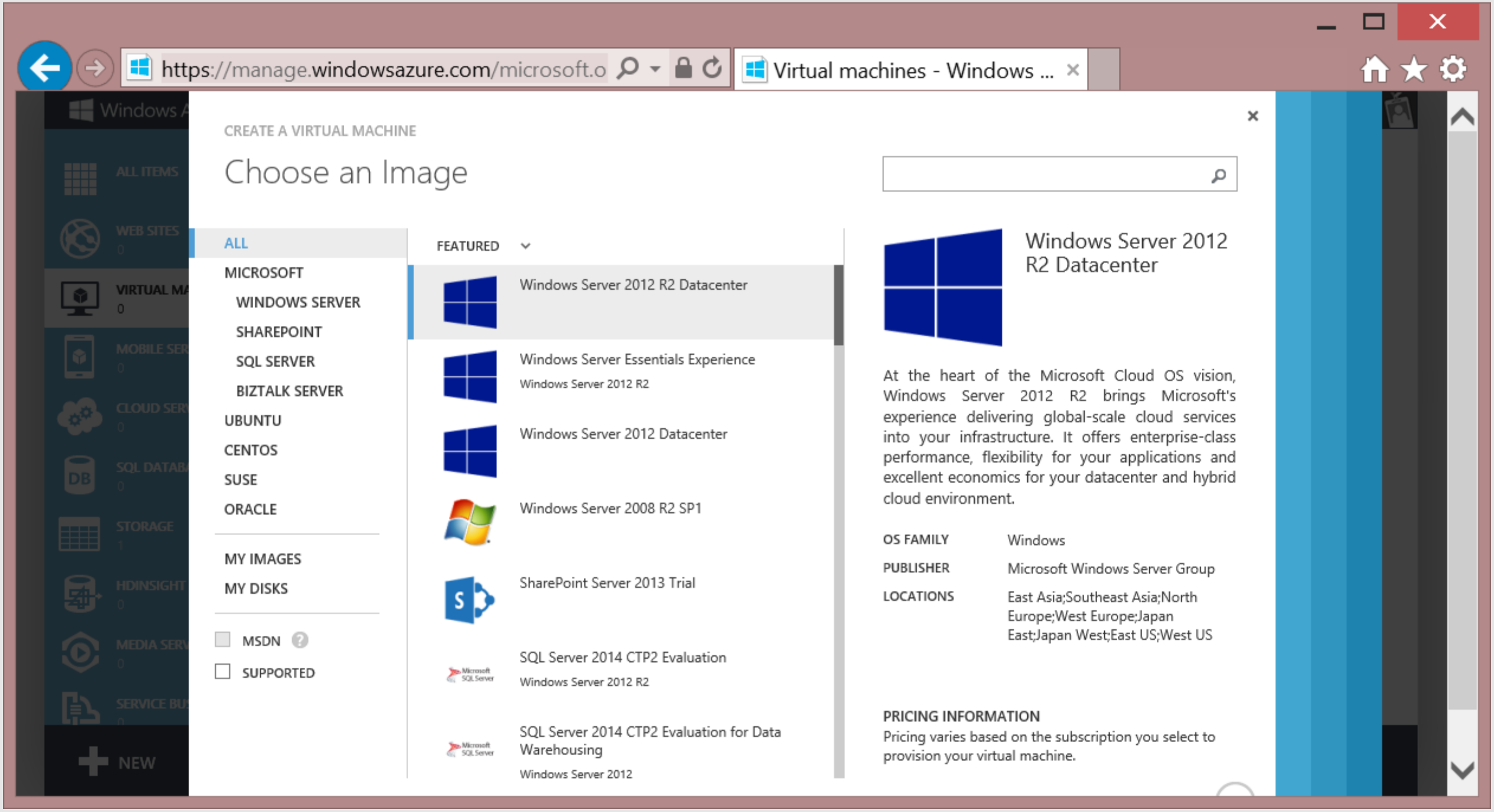
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Windows Server Essentials Experience
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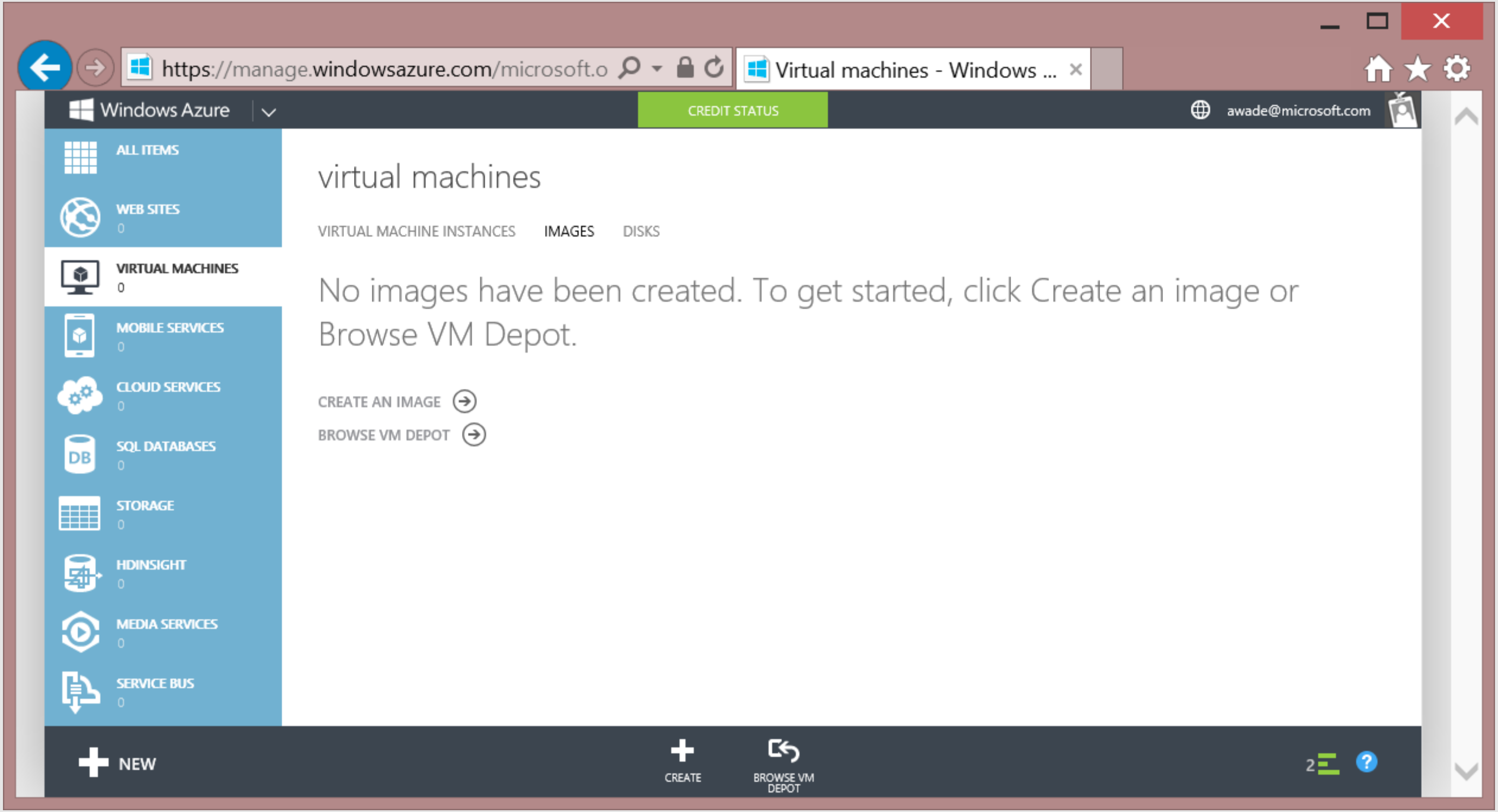
Windows Server 2012 Datacenter
Windows Server 2008 R2 SP1
SharePoint Server 2013 Trial
SQL Server 2014 CTP2 Evaluation
Windows Server 2012 R2
SQL Server 2014 CTP2 Evaluation for Data Warehousing
Windows Server 2012
Windows Server 2012 R2 Datacenter
At the heart of the Microsoft Cloud OS vision, Windows Server 2012 R2 brings Microsoft's experience delivering global-scale cloud services into your infrastructure. It offers enterprise-class performance, flexibility for your applications and excellent economics for your datacenter and hybrid cloud environment.
OS FAMILY
Windows
PUBLISHER
Microsoft Windows Server Group
LOCATIONS
East Asia;Southeast Asia;North Europe;West Europe;Japan East;Japan West;East US;West US
PRICING INFORMATION
Pricing varies based on the subscription you select to provision your virtual machine.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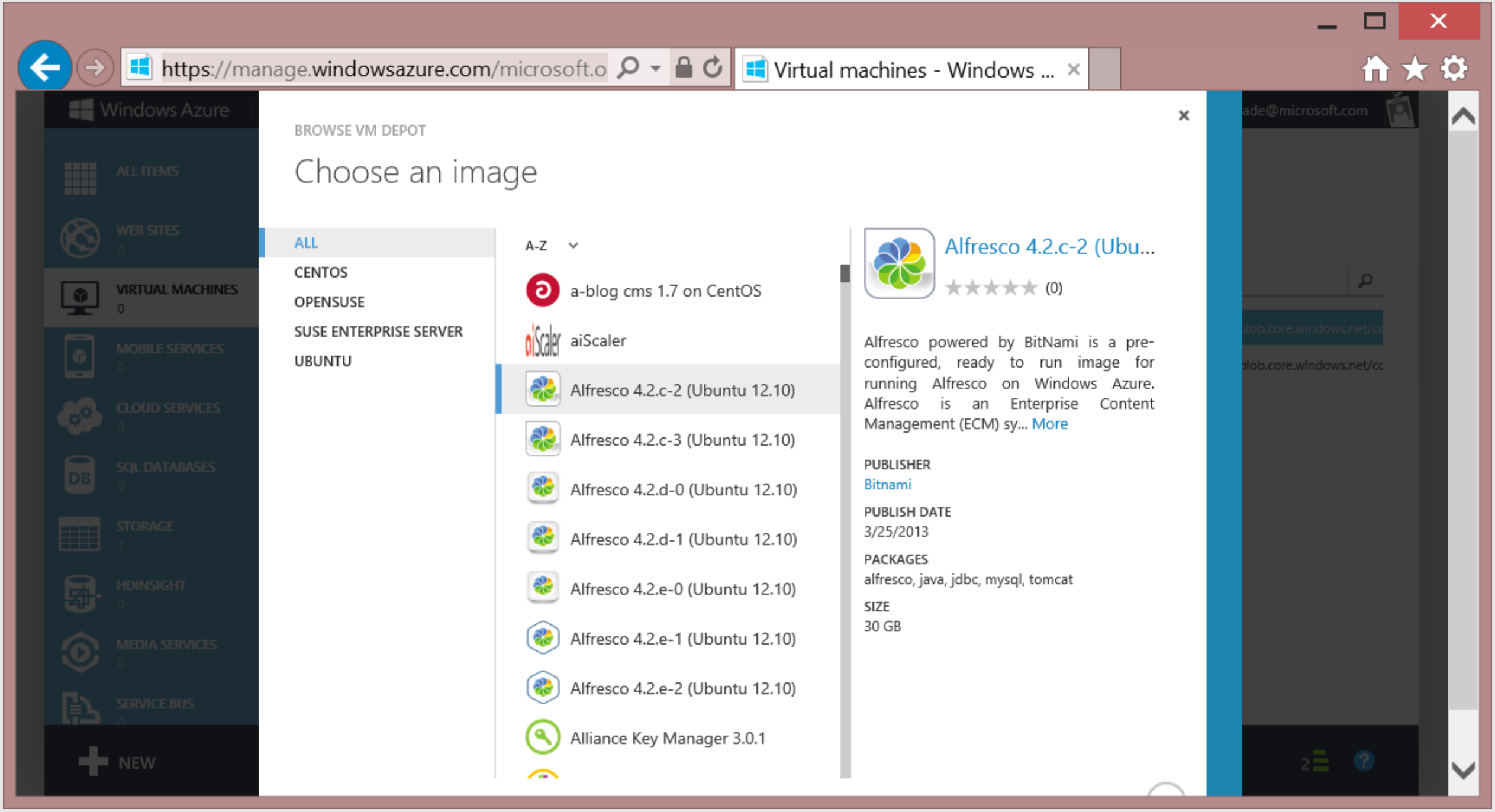
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Alfresco 4.2.d-0 (Ubuntu 12.10)
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Alfresco 4.2.e-0 (Ubuntu 12.10)
Alfresco 4.2.e-1 (Ubuntu 12.10)
Alfresco 4.2.e-2 (Ubuntu 12.10)
Alliance Key Manager 3.0.1
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Alfresco powered by BitNami is a pre-configured, ready to run image for running Alfresco on Windows Azure. Alfresco is an Enterprise Content Management (ECM) sy... More
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Bitnami
PUBLISH DATE
3/25/2013
PACKAGES
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SIZE
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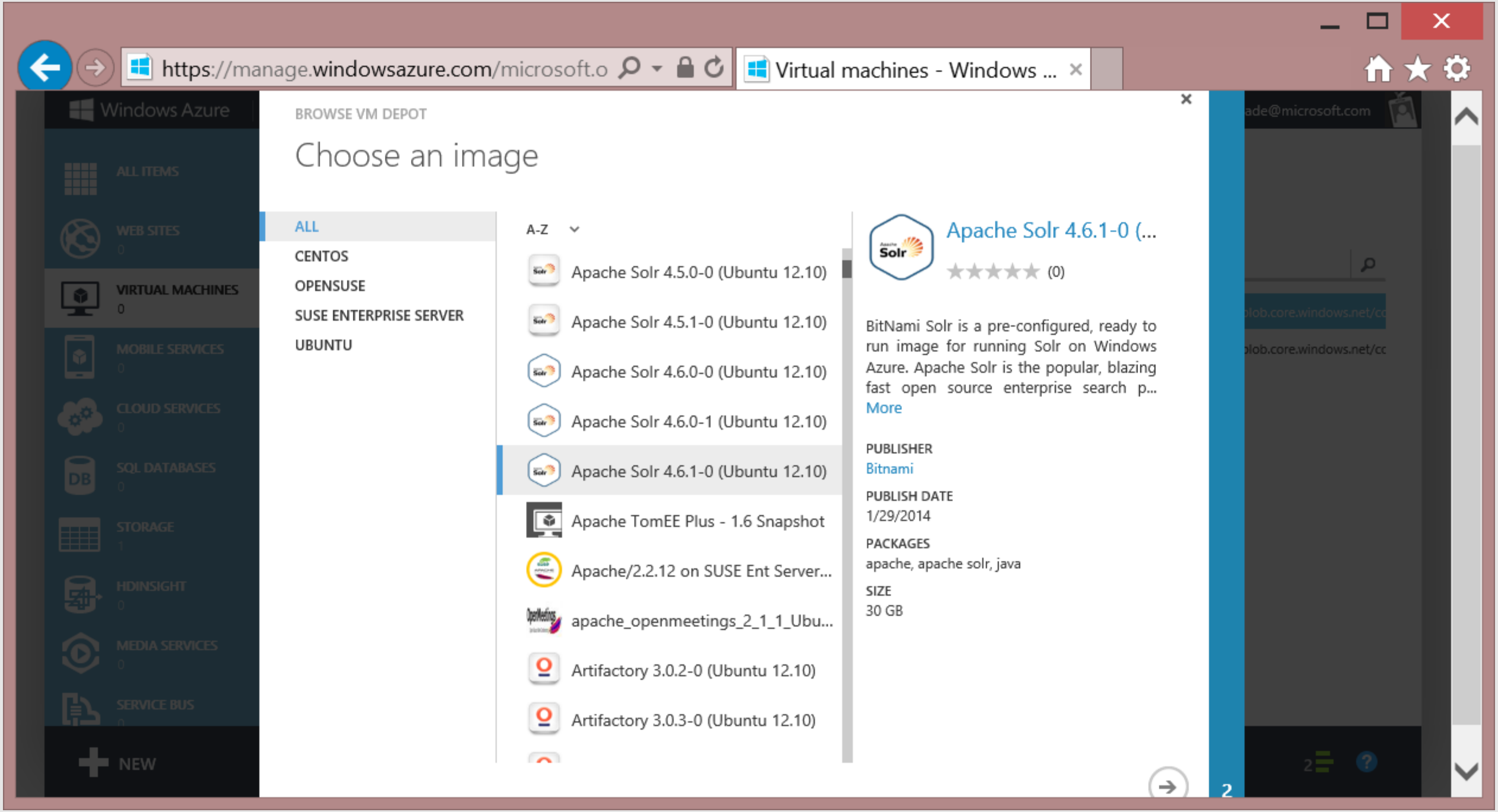
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1/29/2014
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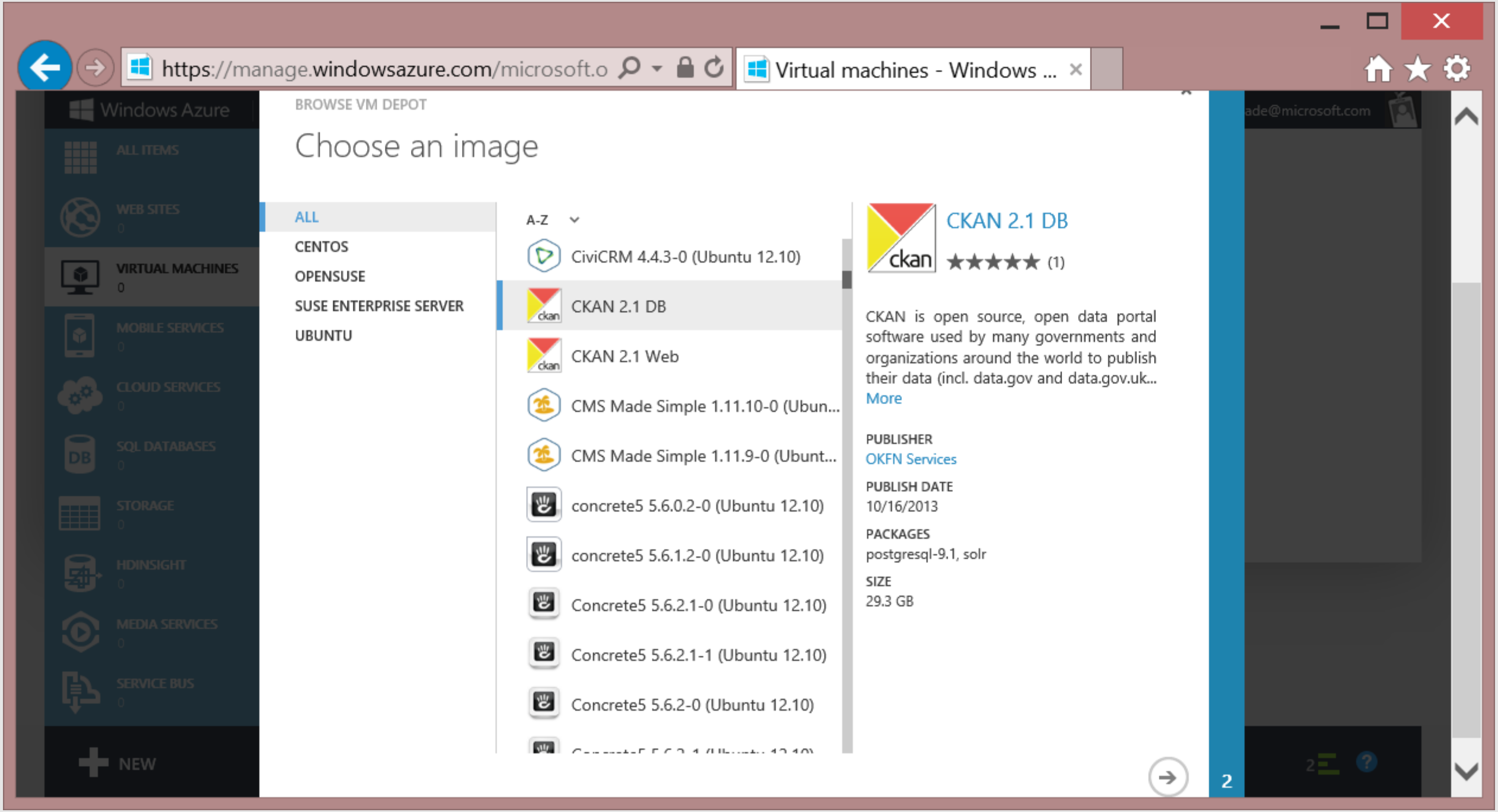
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PUBLISHER
OKFN Services
PUBLISH DATE
10/16/2013
PACKAGES
postgresql-9.1, solr
SIZE
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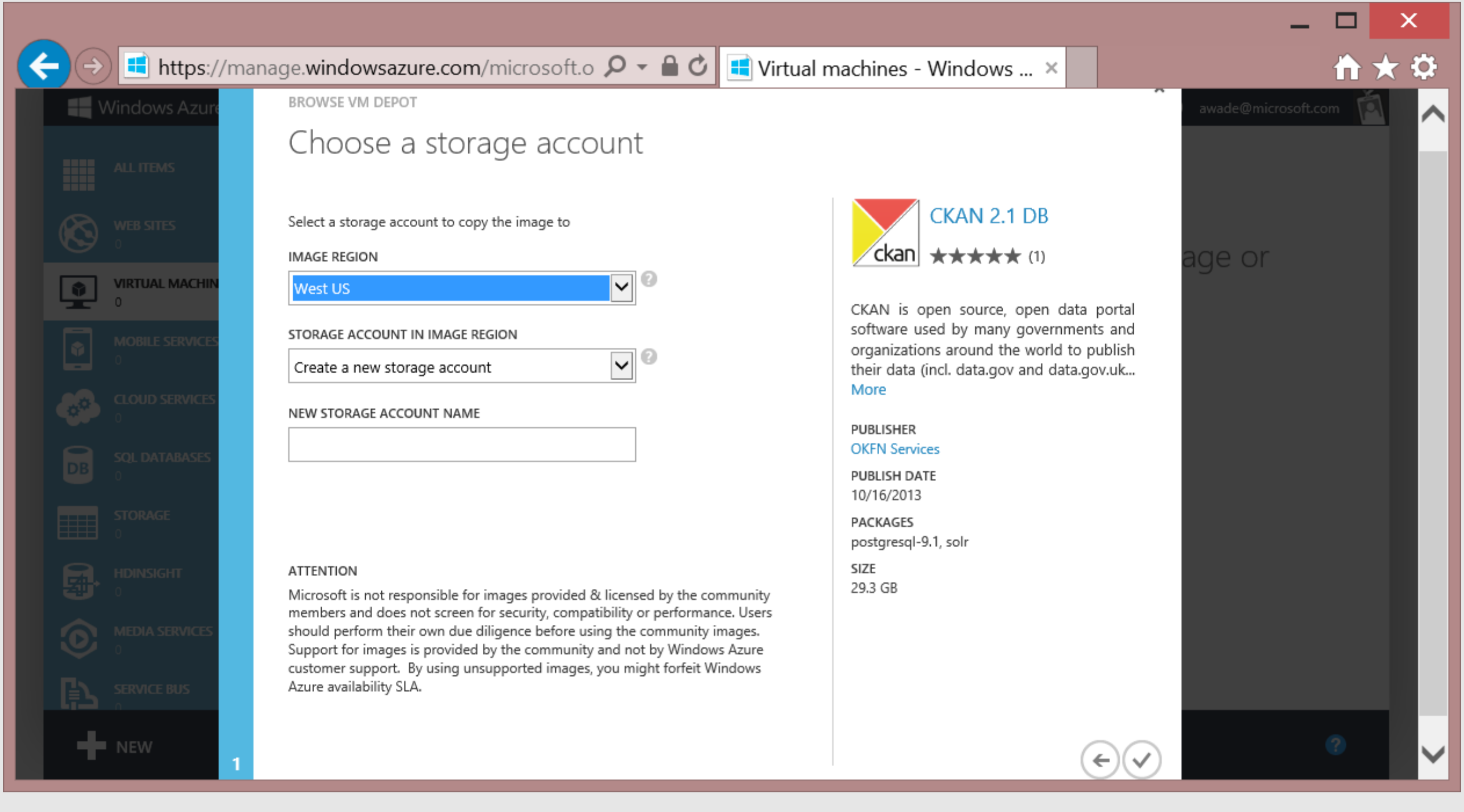
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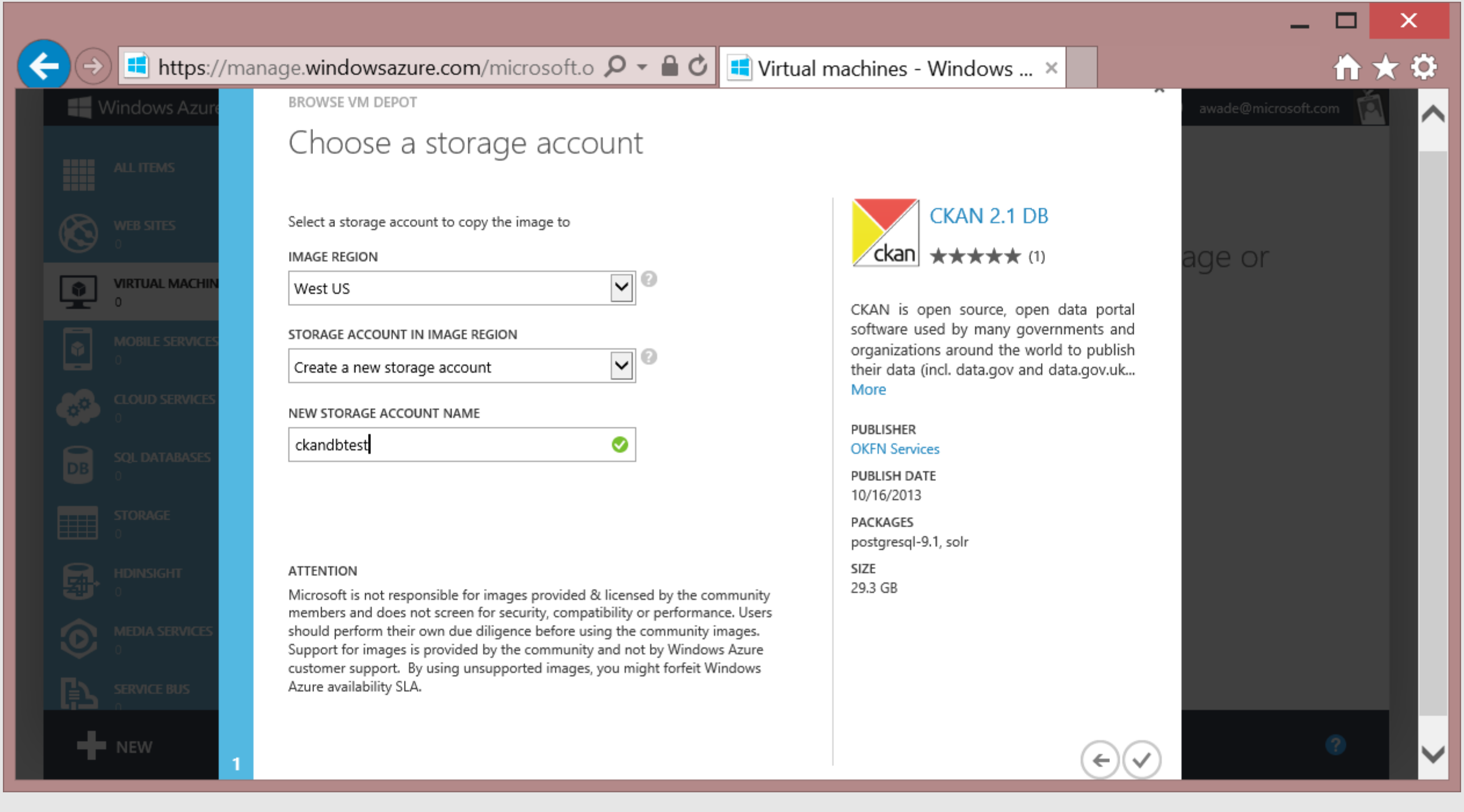
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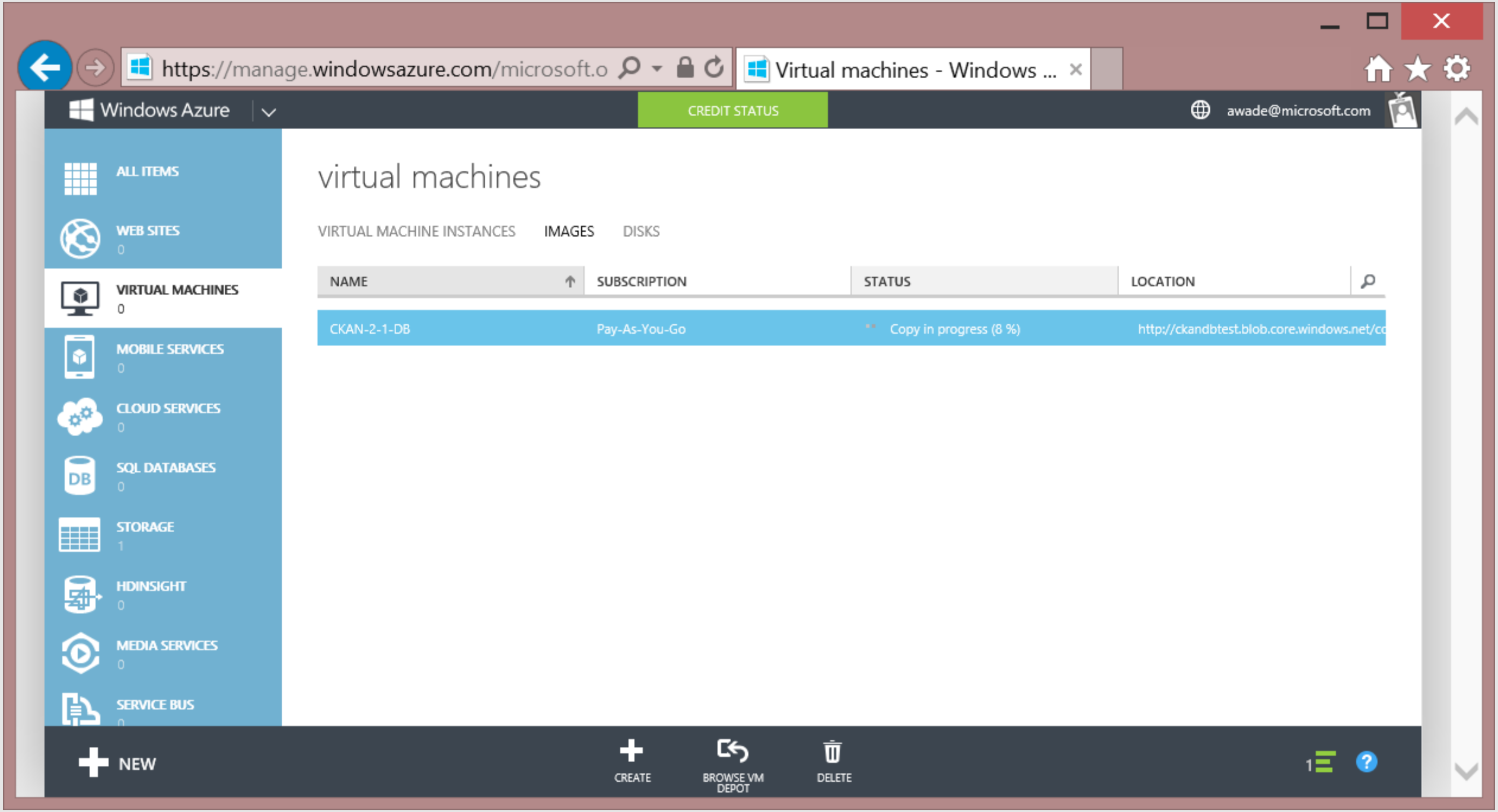
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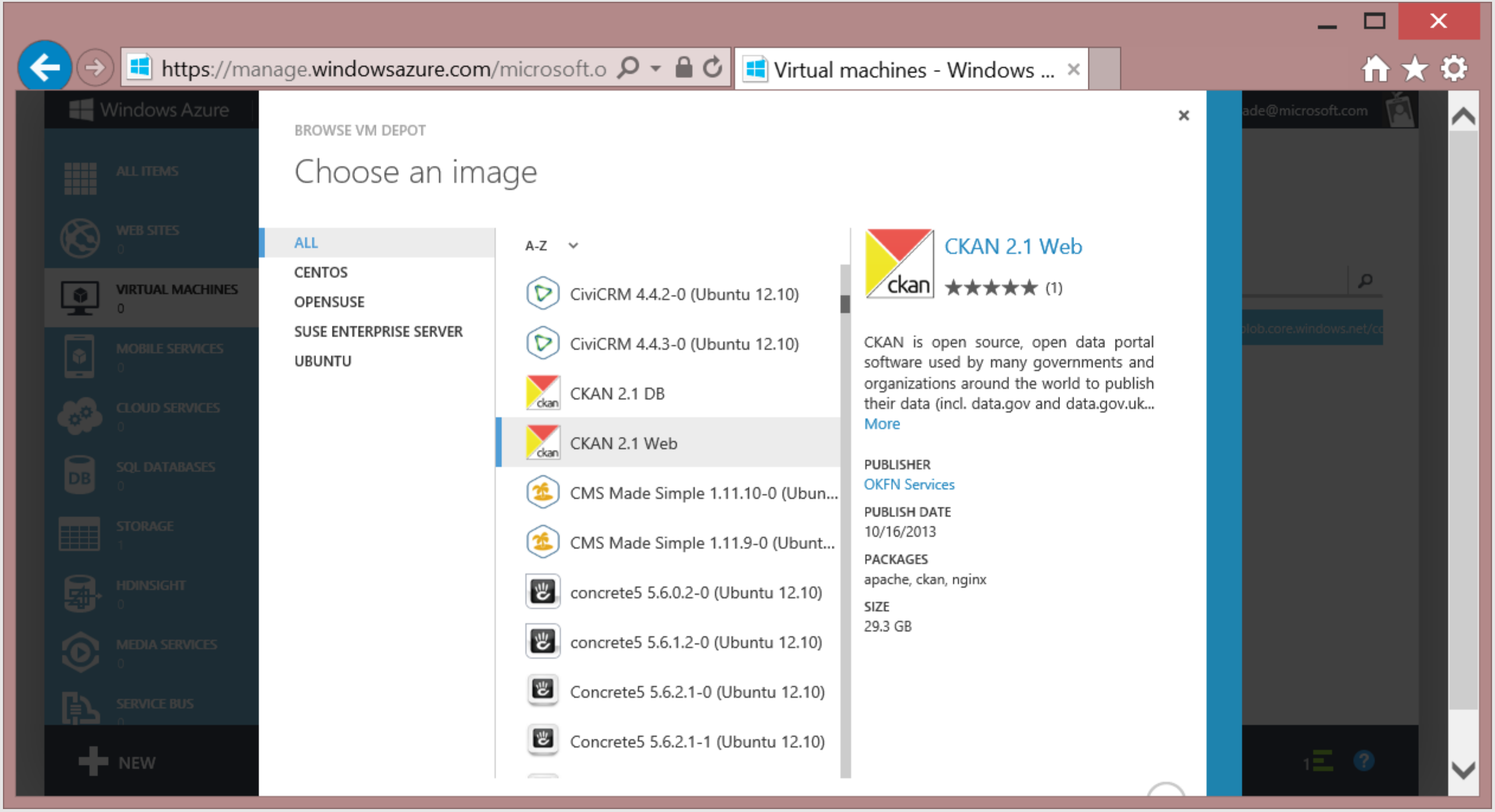
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CKAN is open source, open data portal software used by many governments and organizations around the world to publish their data (incl. data.gov and data.gov.uk...
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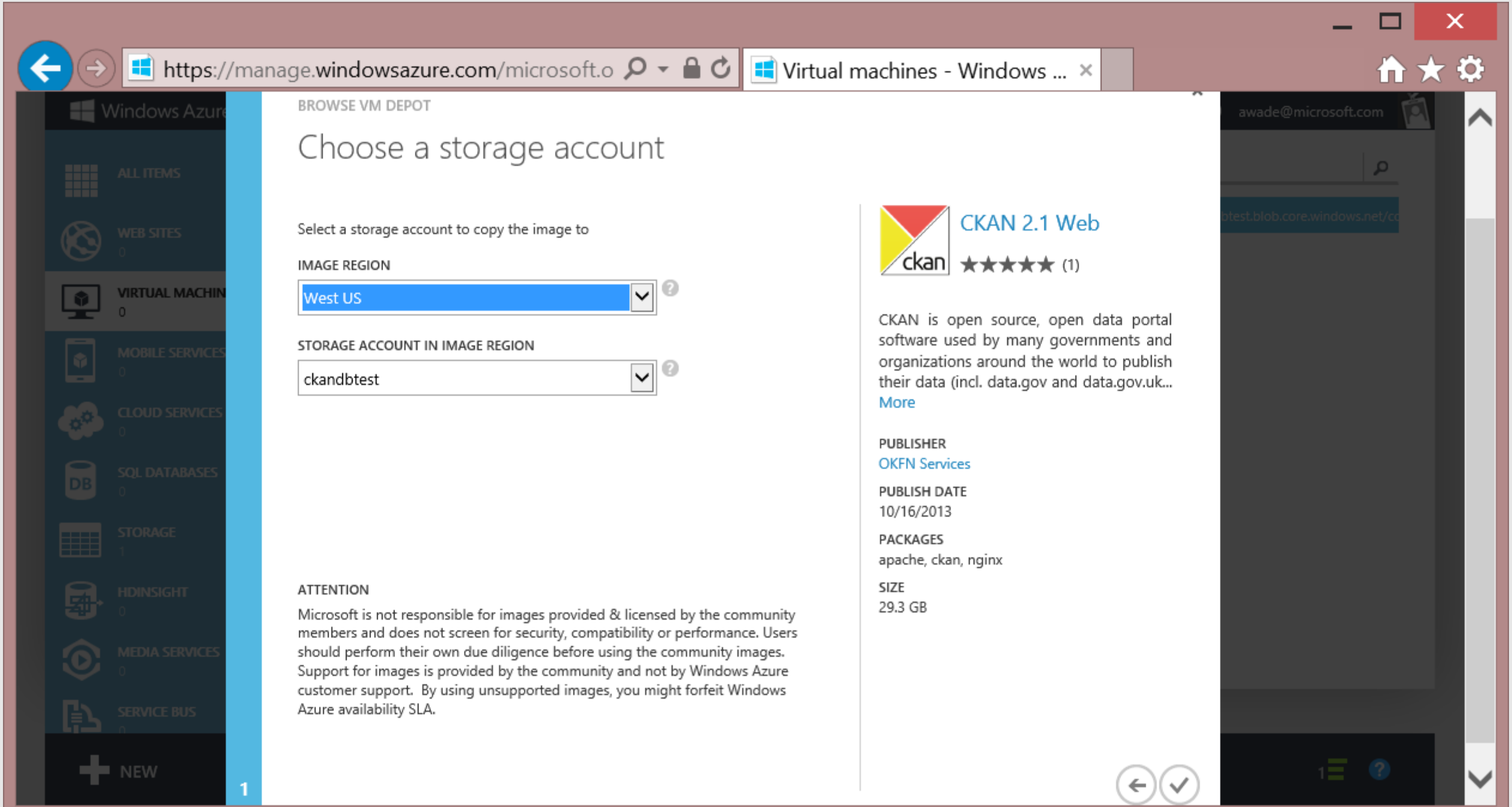
PUBLISHER
OKFN Services
PUBLISH DATE
10/16/2013
PACKAGES
apache, ckan, nginx
SIZE
29.3 GB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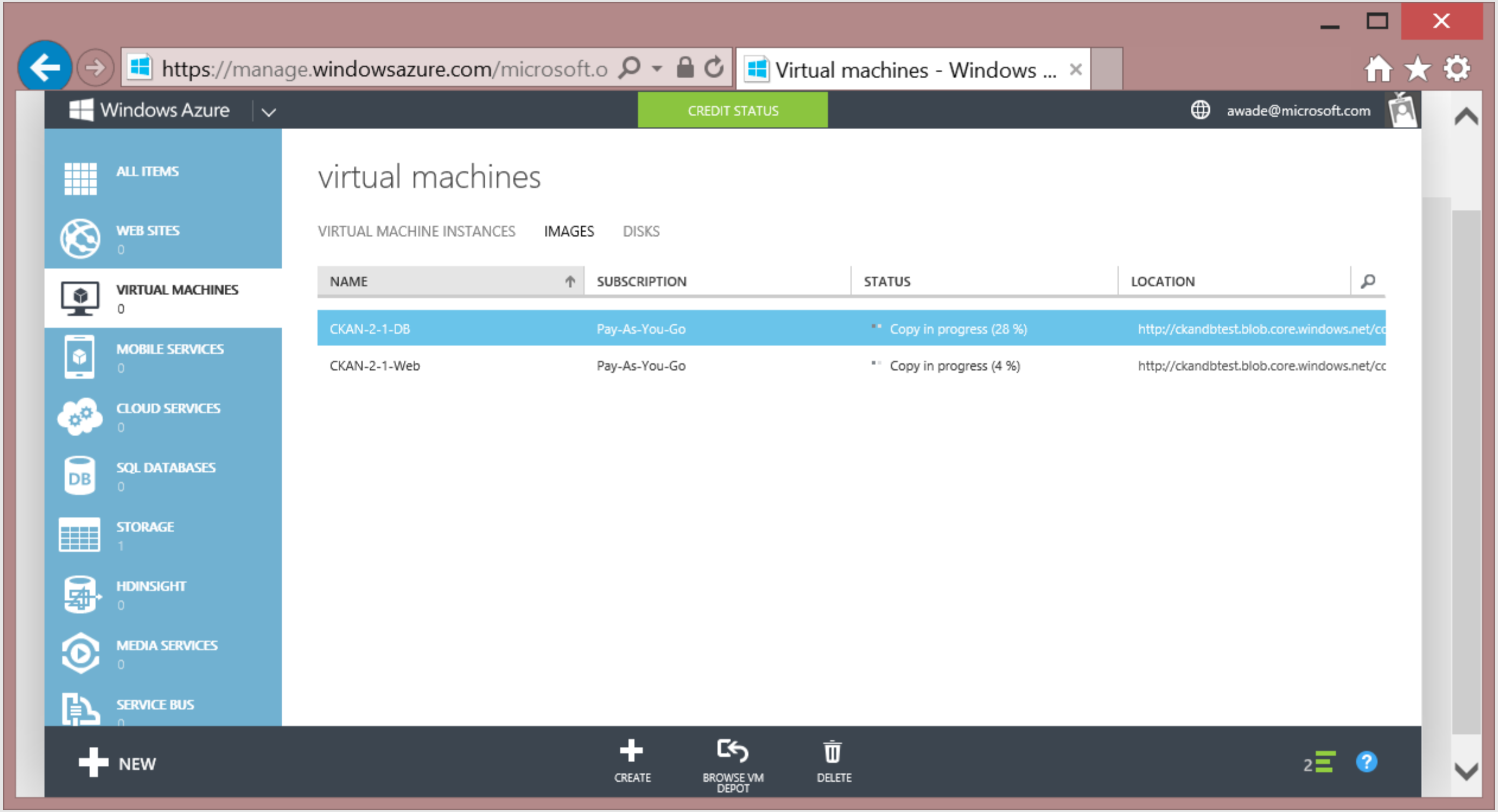
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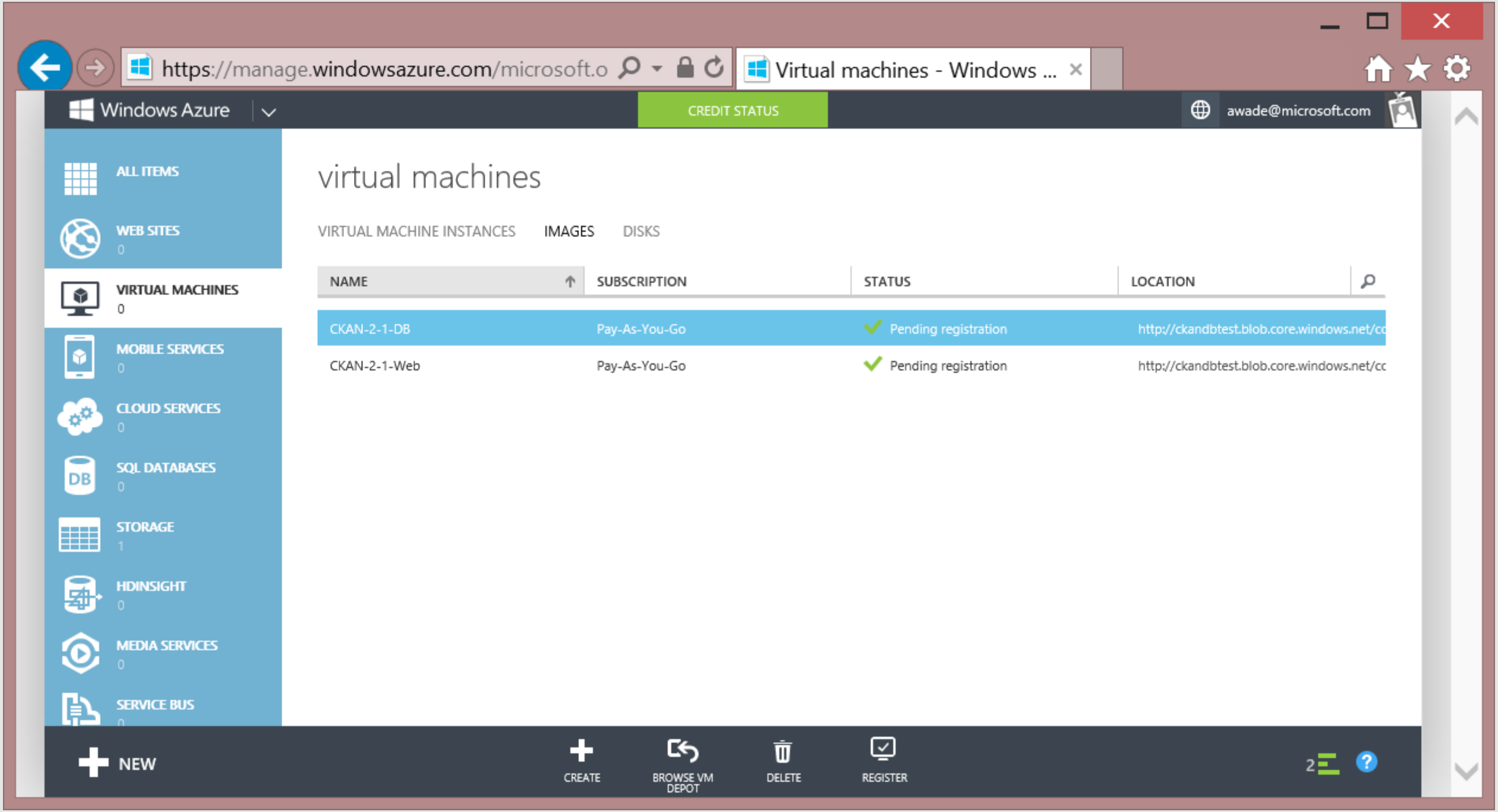
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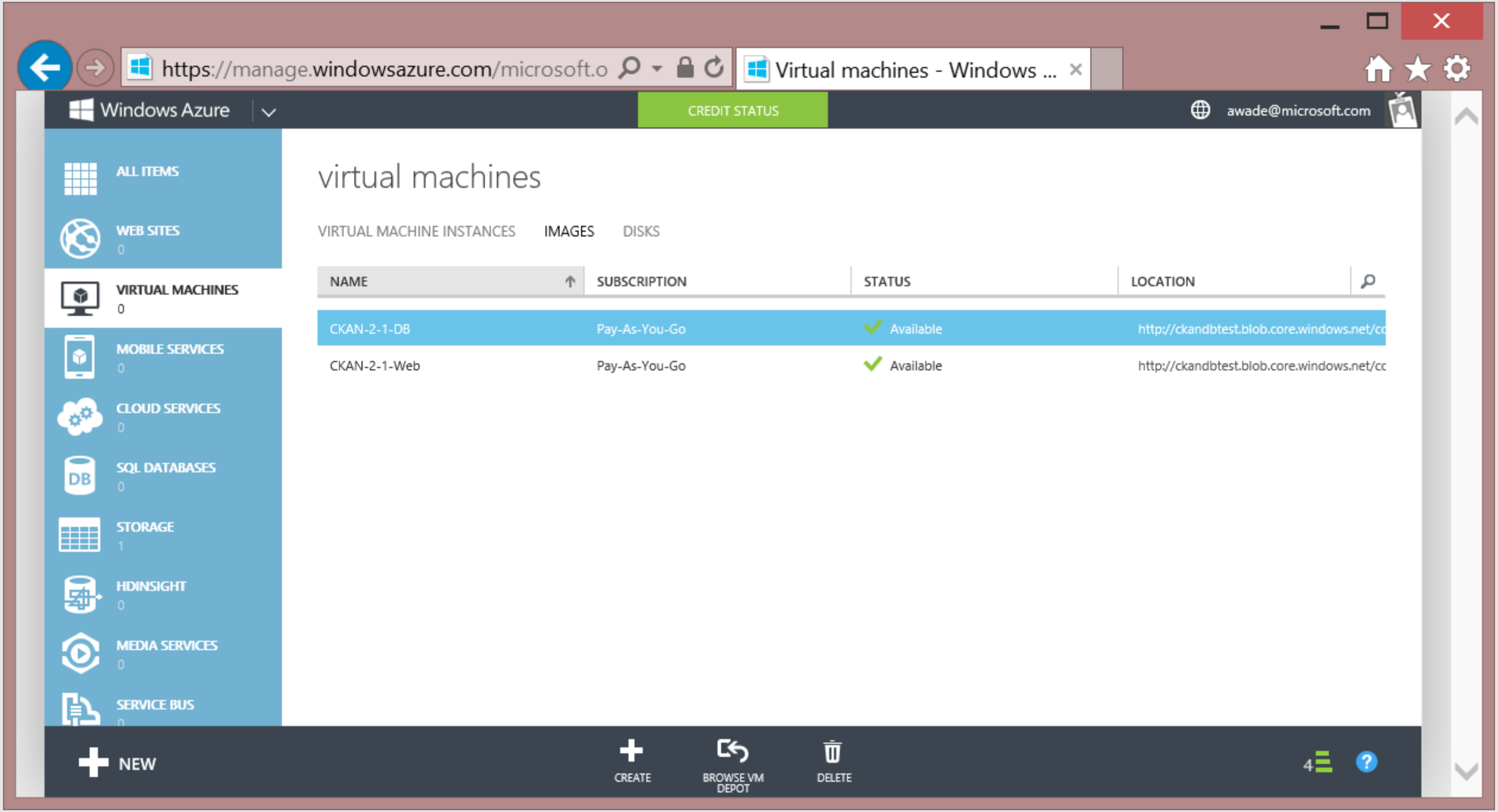
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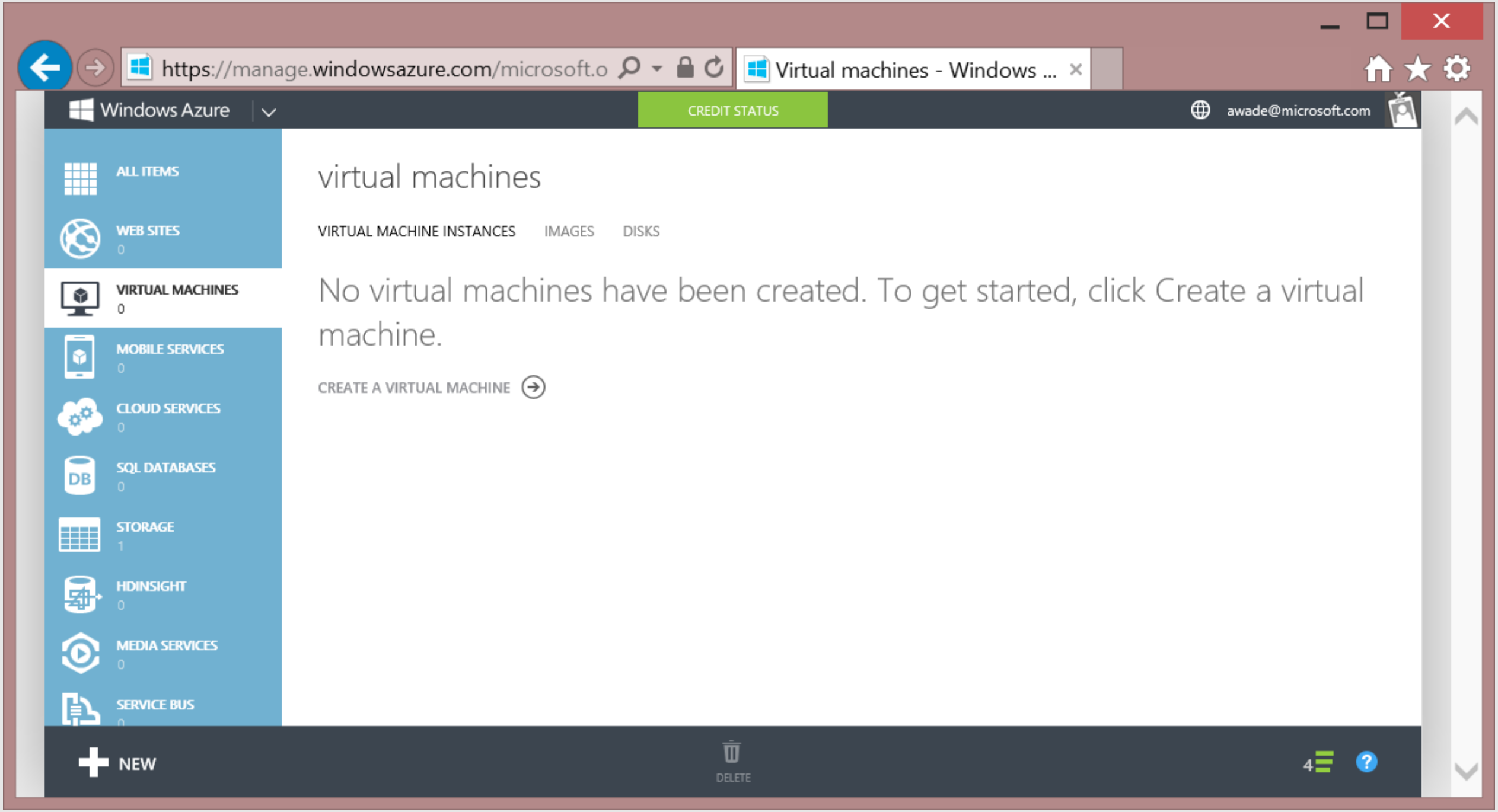
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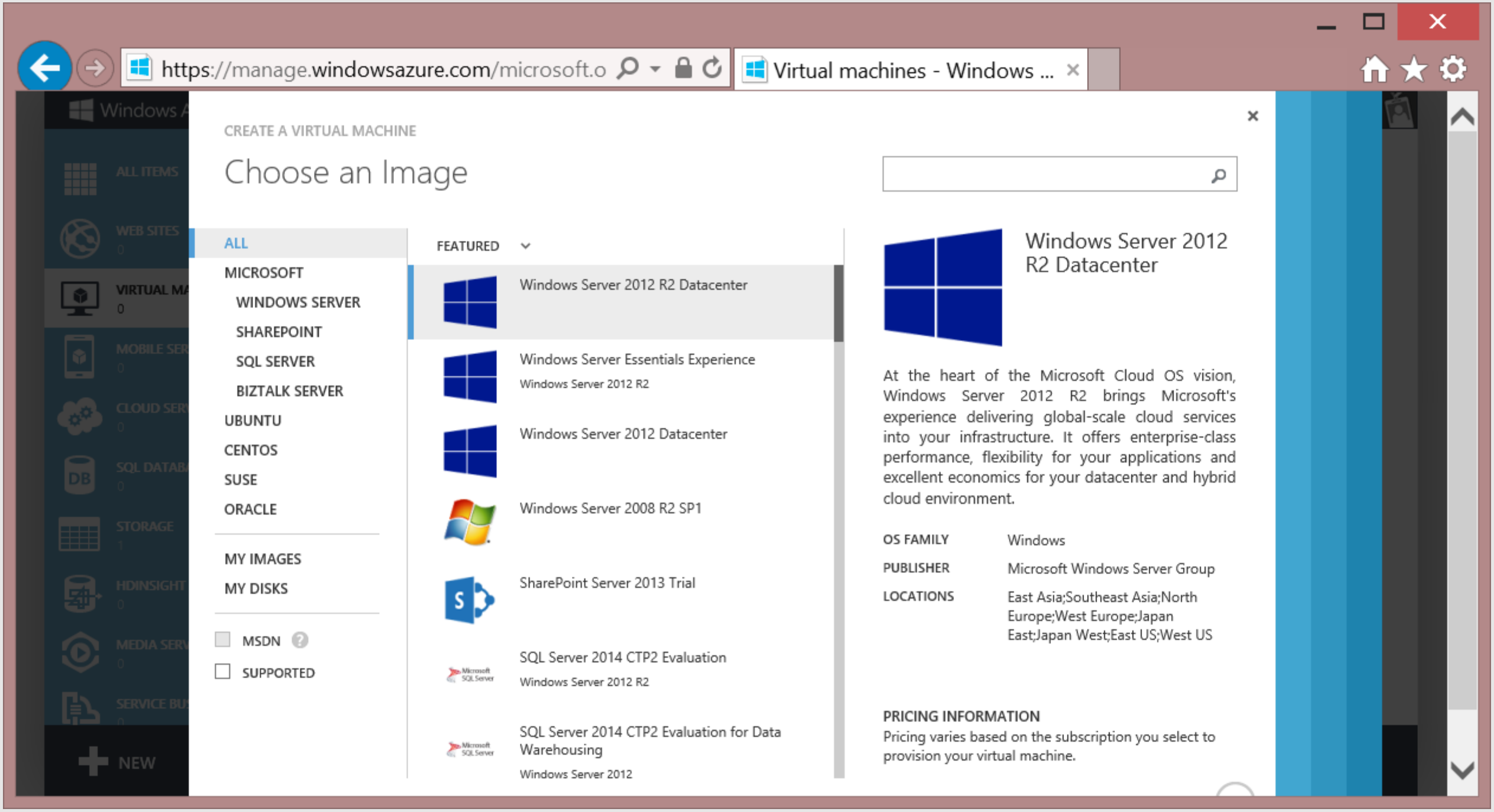
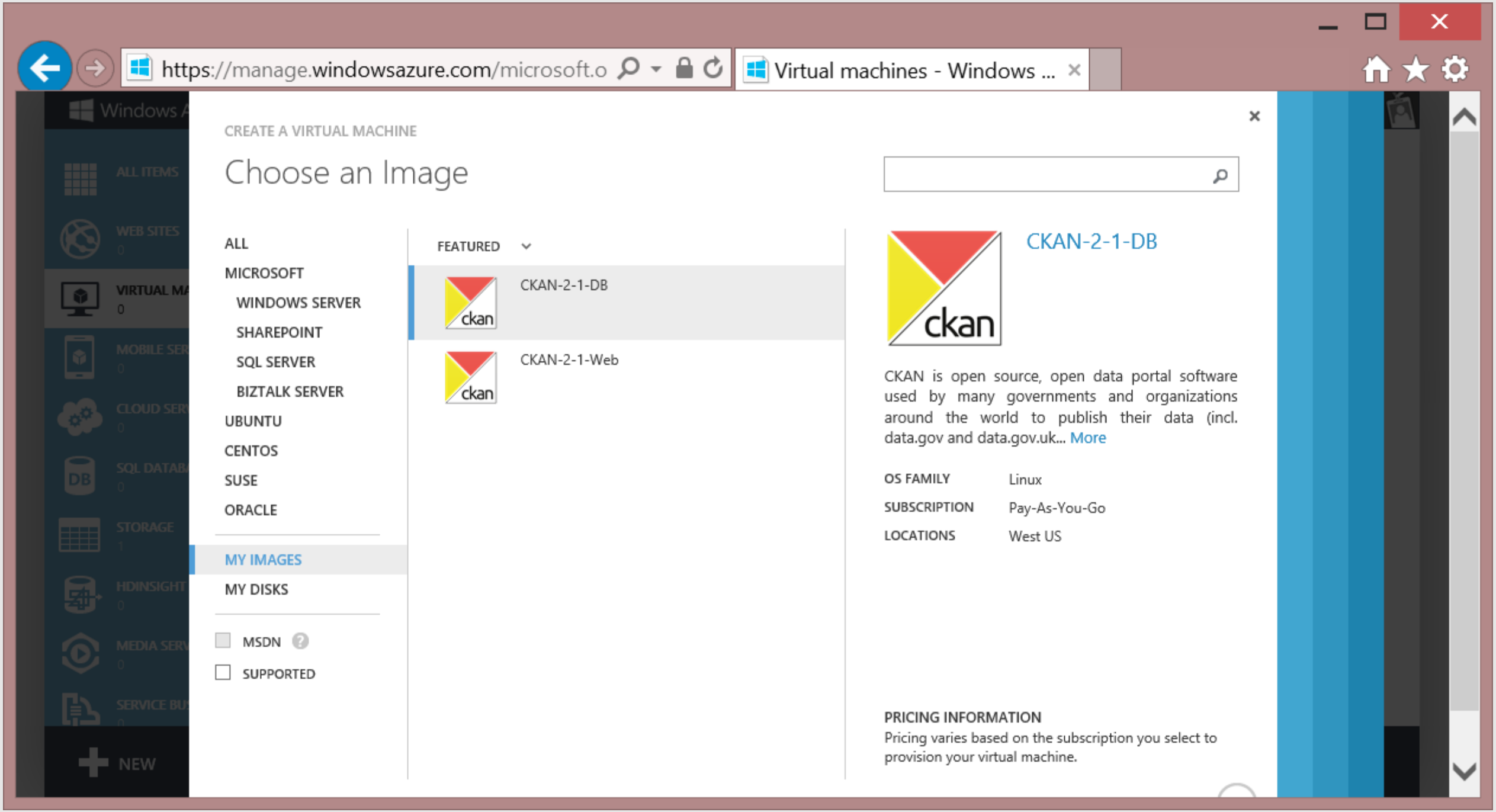
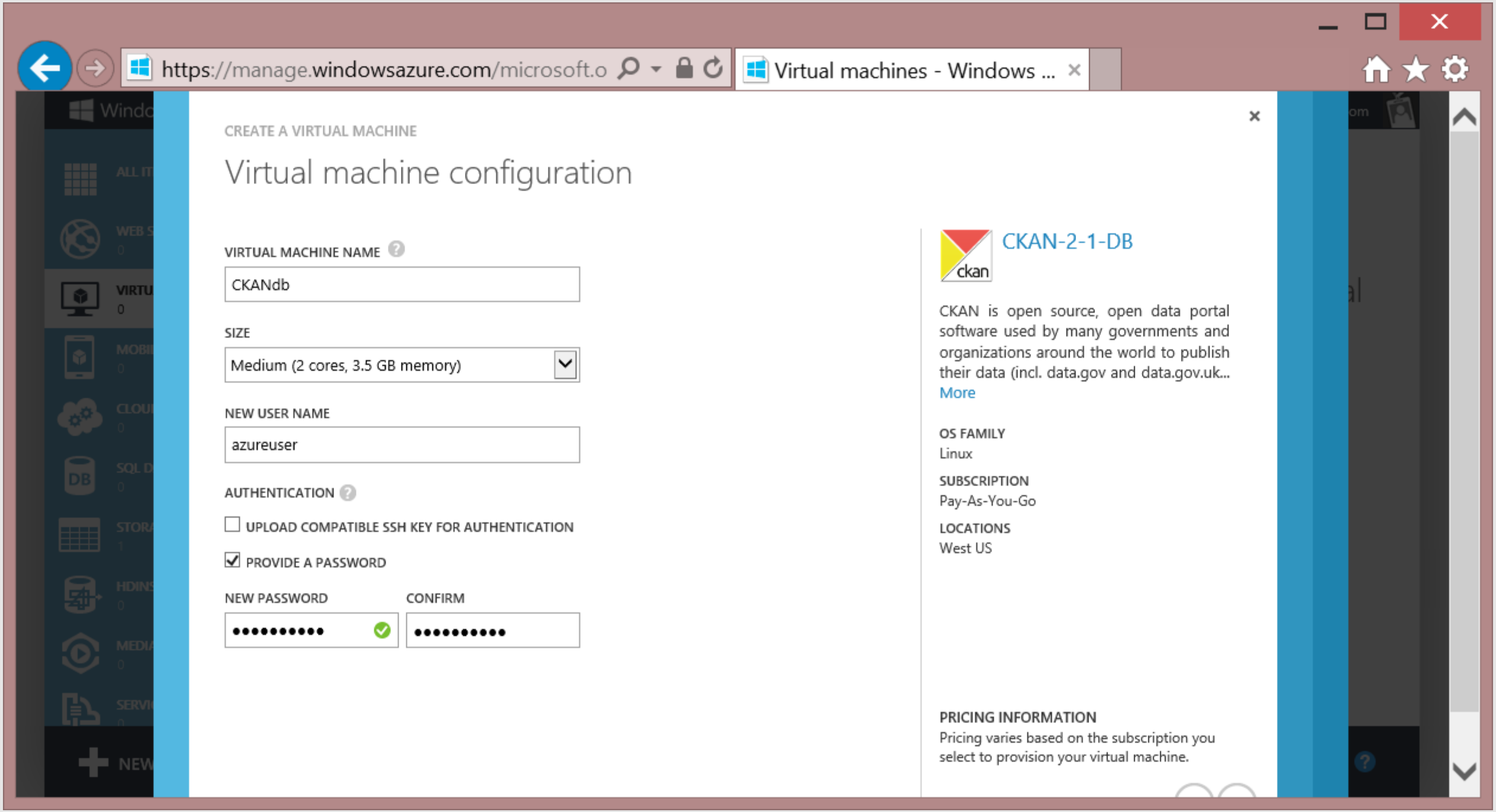
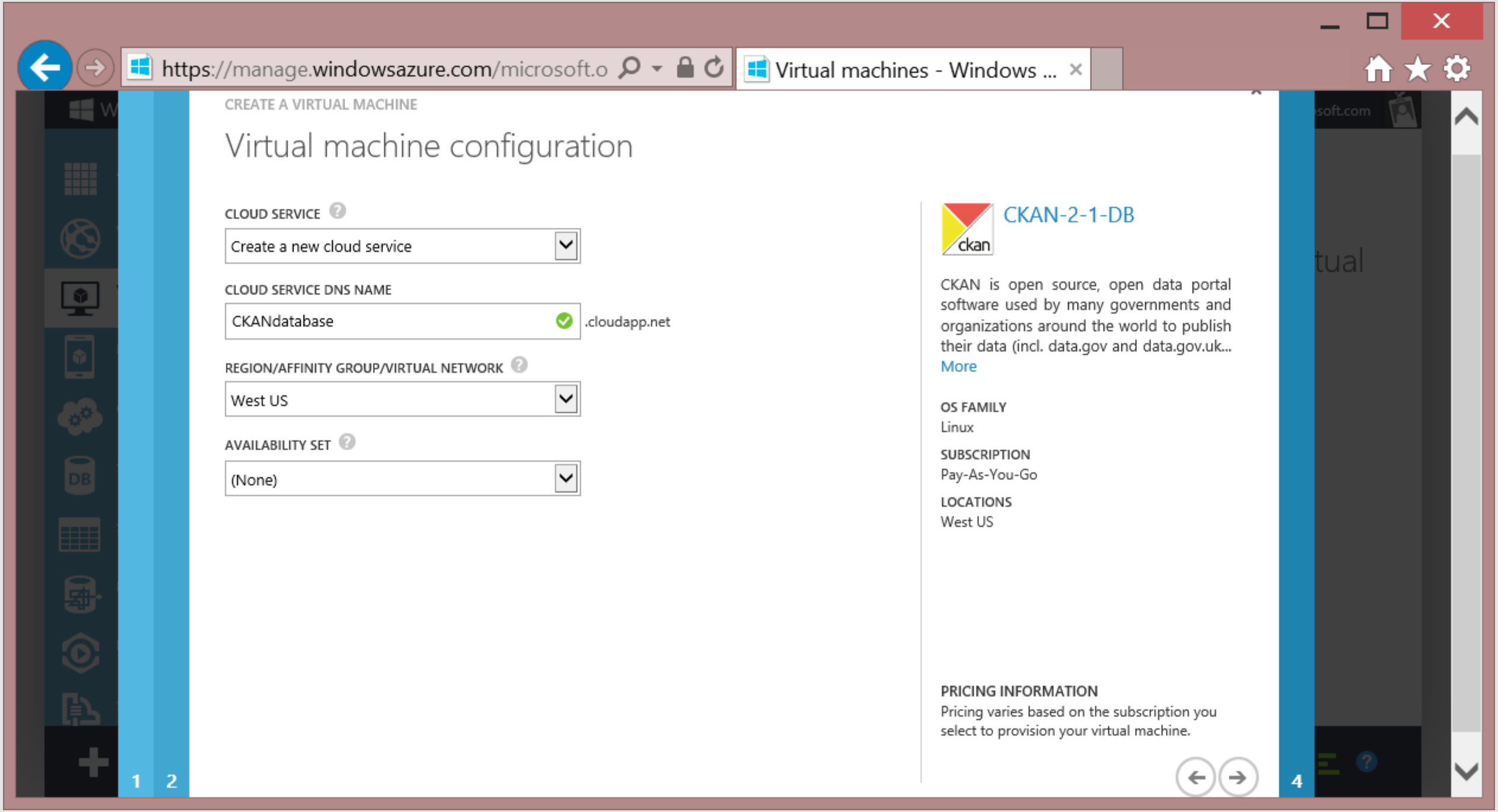
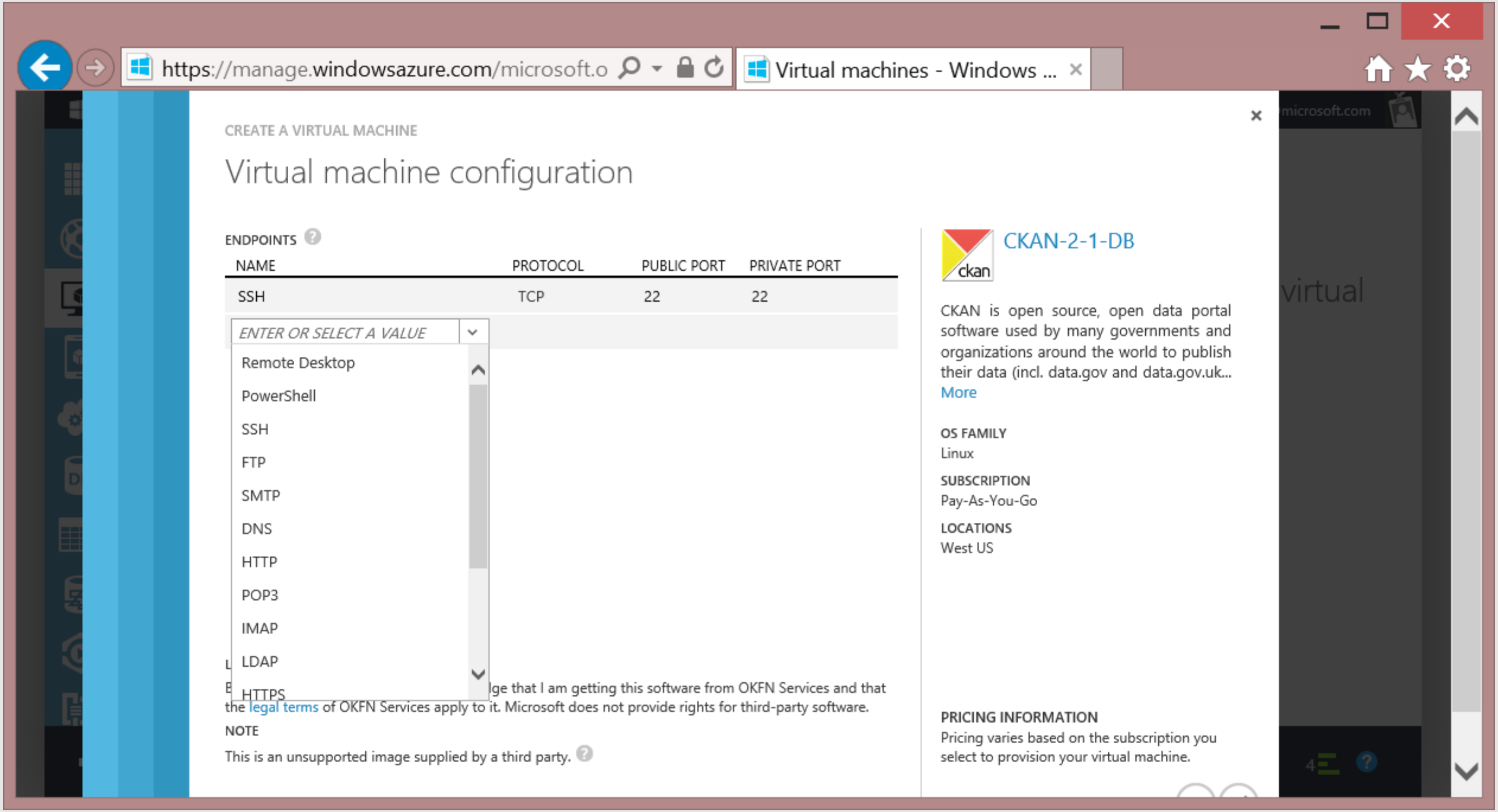
Virtual machines - Windows ...
Windows Azure
CREDIT STATUS
awade@microsoft.com
ALL ITEMS
WEB SITES
0
VIRTUAL MACHINES
0
MOBILE SERVICES
0
CLOUD SERVICES
0
SQL DATABASES
0
STORAGE
1
HDINSIGHT
0
MEDIA SERVICES
0
SERVICE BUS
virtual machines
VIRTUAL MACHINE INSTANCES
IMAGES
DISKS
No virtual machines have been created. To get started, click Create a virtual machine.
CREATE A VIRTUAL MACHINE
NEW
DELETE
4


https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
Windows A
ALL ITEMS
WEB SITES
0
VIRTUAL MA
0
MOBILE SER
0
CLOUD SER
0
SQL DATAB
0
STORAGE
1
HDINSIGHT
0
MEDIA SERV
0
SERVICE BU
0
NEW
CREATE A VIRTUAL MACHINE
Choose an Image
ALL
MICROSOFT
WINDOWS SERVER
SHAREPOINT
SQL SERVER
BIZTALK SERVER
UBUNTU
CENTOS
SUSE
ORACLE
MY IMAGES
MY DISKS
MSDN
SUPPORTED
FEATURED
Windows Server 2012 R2 Datacenter
Windows Server Essentials Experience
Windows Server 2012 R2
Windows Server 2012 Datacenter
Windows Server 2008 R2 SP1
SharePoint Server 2013 Trial
SQL Server 2014 CTP2 Evaluation
Windows Server 2012 R2
SQL Server 2014 CTP2 Evaluation for Data Warehousing
Windows Server 2012
Windows Server 2012 R2 Datacenter
At the heart of the Microsoft Cloud OS vision, Windows Server 2012 R2 brings Microsoft's experience delivering global-scale cloud services into your infrastructure. It offers enterprise-class performance, flexibility for your applications and excellent economics for your datacenter and hybrid cloud environment.
OS FAMILY
Windows
PUBLISHER
Microsoft Windows Server Group
LOCATIONS
East Asia;Southeast Asia;North Europe;West Europe;Japan East;Japan West;East US;West US
PRICING INFORMATION
Pricing varies based on the subscription you select to provision your virtual machine.


https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
CREATE A VIRTUAL MACHINE
Choose an Image
ALL
MICROSOFT
WINDOWS SERVER
SHAREPOINT
SQL SERVER
BIZTALK SERVER
UBUNTU
CENTOS
SUSE
ORACLE
MY IMAGES
MY DISKS
MSDN
SUPPORTED
FEATURED
CKAN-2-1-DB
CKAN-2-1-Web
CKAN-2-1-DB
CKAN is open source, open data portal software used by many governments and organizations around the world to publish their data (incl. data.gov and data.gov.uk... More
OS FAMILY Linux
SUBSCRIPTION Pay-As-You-Go
LOCATIONS West US
PRICING INFORMATION
Pricing varies based on the subscription you select to provision your virtual machine.
NEW


https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
CREATE A VIRTUAL MACHINE
Virtual machine configuration
VIRTUAL MACHINE NAME
CKANdb
SIZE
Medium (2 cores, 3.5 GB memory)
NEW USER NAME
azureuser
AUTHENTICATION
UPLOAD COMPATIBLE SSH KEY FOR AUTHENTICATION
PROVIDE A PASSWORD
NEW PASSWORD
CONFIRM
CKAN-2-1-DB
CKAN is open source, open data portal software used by many governments and organizations around the world to publish their data (incl. data.gov and data.gov.uk...
More
OS FAMILY
Linux
SUBSCRIPTION
Pay-As-You-Go
LOCATIONS
West US
PRICING INFORMATION
Pricing varies based on the subscription you select to provision your virtual machine.


https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
CREATE A VIRTUAL MACHINE
Virtual machine configuration
CLOUD SERVICE
Create a new cloud service
CLOUD SERVICE DNS NAME
CKANdatabase
.cloudapp.net
REGION/AFFINITY GROUP/VIRTUAL NETWORK
West US
AVAILABILITY SET
(None)
CKAN-2-1-DB
CKAN is open source, open data portal software used by many governments and organizations around the world to publish their data (incl. data.gov and data.gov.uk...
More
OS FAMILY
Linux
SUBSCRIPTION
Pay-As-You-Go
LOCATIONS
West US
PRICING INFORMATION
Pricing varies based on the subscription you select to provision your virtual machine.
1
2
4


https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
CREATE A VIRTUAL MACHINE
Virtual machine configuration
ENDPOINTS
NAME
PROTOCOL
PUBLIC PORT
PRIVATE PORT
SSH
TCP
22
22
ENTER OR SELECT A VALUE
Remote Desktop
PowerShell
SSH
FTP
SMTP
DNS
HTTP
POP3
IMAP
LDAP
HTTPS
ge that I am getting this software from OKFN Services and that
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CKAN-2-1-DB
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More
OS FAMILY
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Pay-As-You-Go
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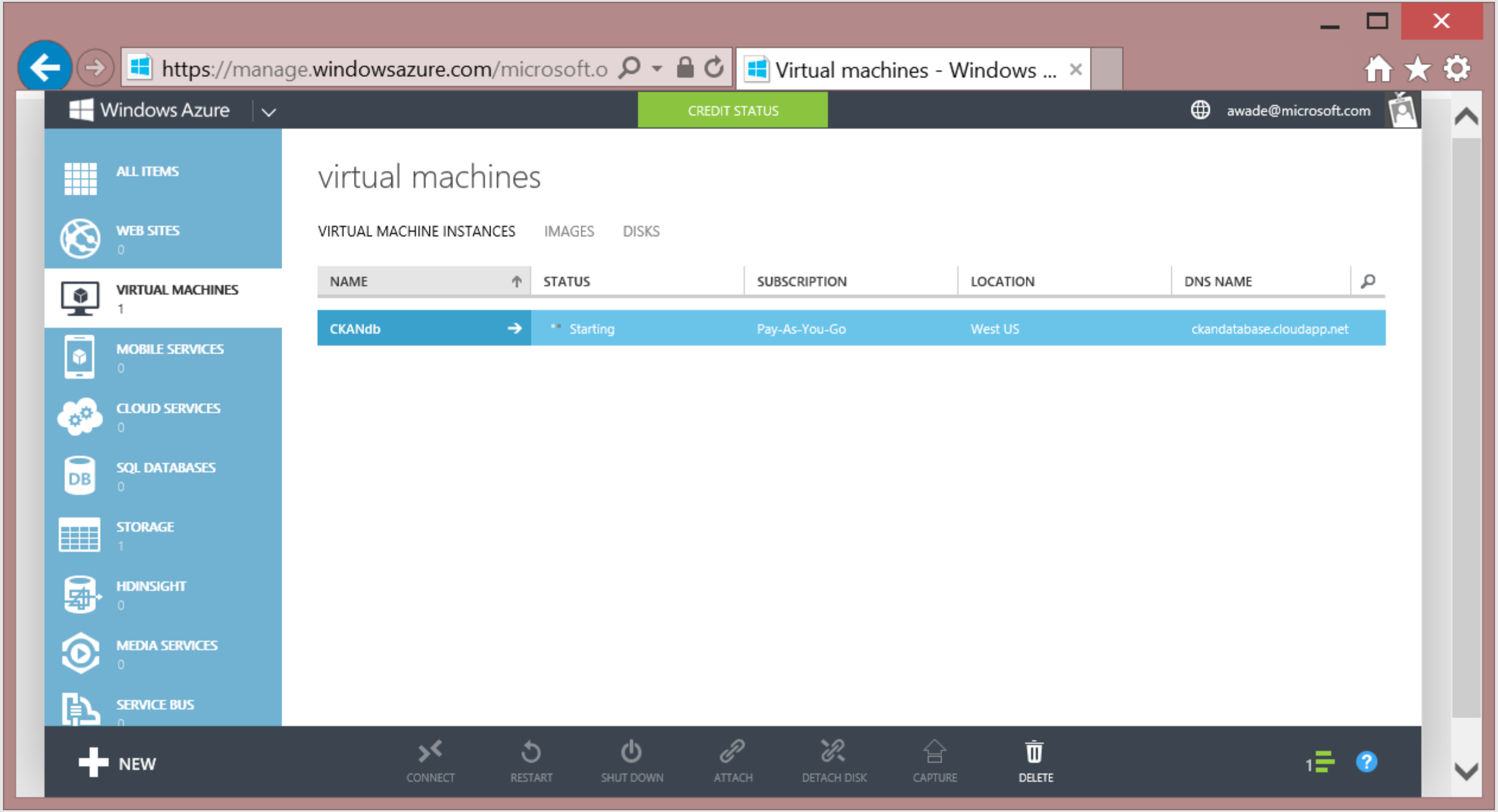
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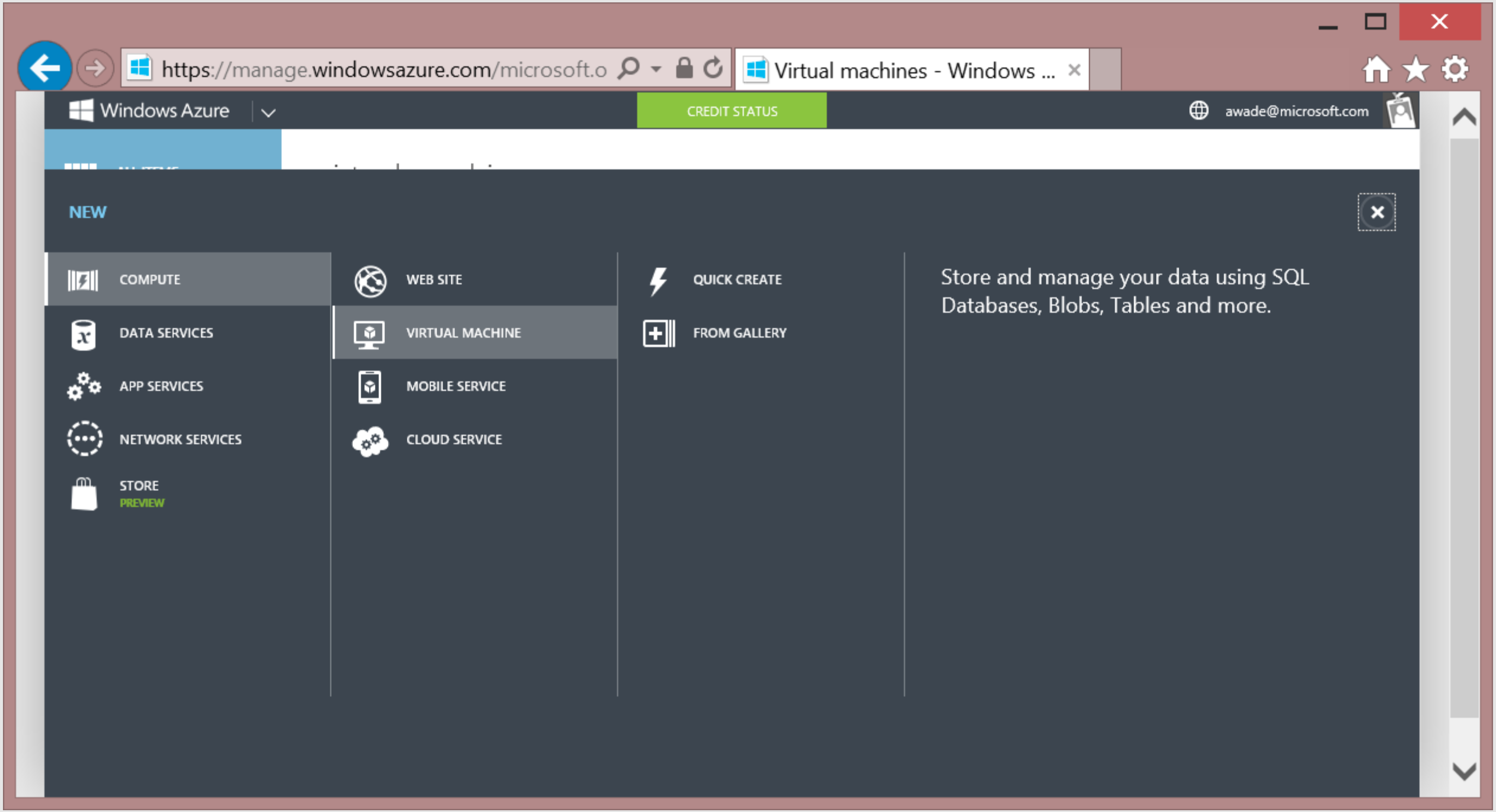
Virtual machines - Windows ...
Windows Azure
CREDIT STATUS
awade@microsoft.com
ALL ITEMS
WEB SITES
0
VIRTUAL MACHINES
1
MOBILE SERVICES
0
CLOUD SERVICES
0
SQL DATABASES
0
STORAGE
1
HDINSIGHT
0
MEDIA SERVICES
0
SERVICE BUS
virtual machines
VIRTUAL MACHINE INSTANCES
IMAGES
DISKS
NAME
STATUS
SUBSCRIPTION
LOCATION
DNS NAME
CKANdb
Starting
Pay-As-You-Go
West US
ckandatabase.cloudapp.net
NEW
CONNECT
RESTART
SHUT DOWN
ATTACH
DETACH DISK
CAPTURE
DELETE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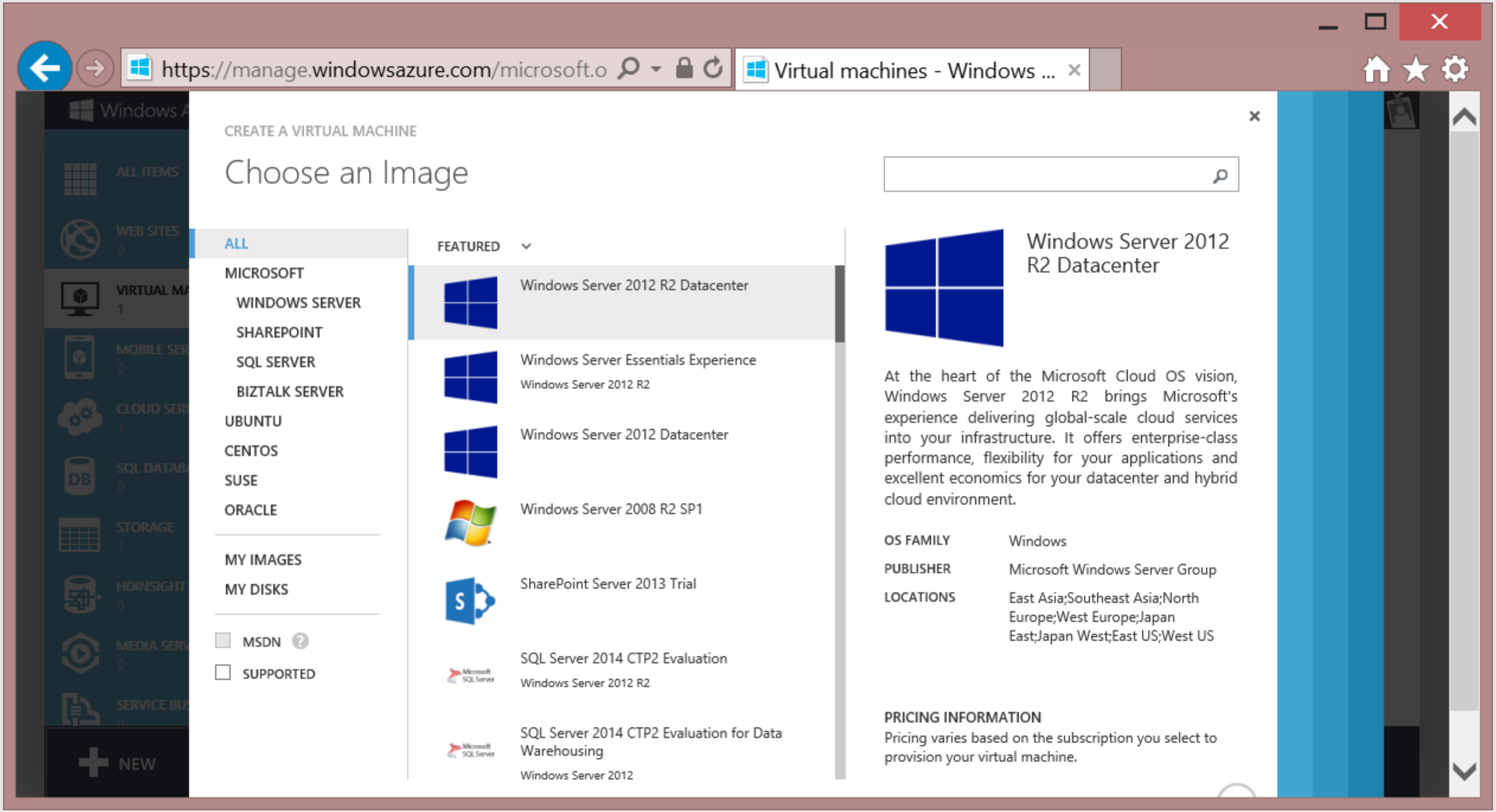
Virtual machines - Windows ...
Windows Azure
CREDIT STATUS
awade@microsoft.com
NEW
COMPUTE
DATA SERVICES
APP SERVICES
NETWORK SERVICES
STORE
PREVIEW
WEB SITE
VIRTUAL MACHINE
MOBILE SERVICE
CLOUD SERVICE
QUICK CREATE
FROM GALLERY
Store and manage your data using SQL Databases, Blobs, Tables and more.


https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
Windows A
ALL ITEMS
WEB SITES
VIRTUAL MA
MOBILE SER
CLOUD SER
SQL DATAB
STORAGE
HDINSIGHT
MEDIA SERV
SERVICE BU
NEW
CREATE A VIRTUAL MACHINE
Choose an Image
ALL
MICROSOFT
WINDOWS SERVER
SHAREPOINT
SQL SERVER
BIZTALK SERVER
UBUNTU
CENTOS
SUSE
ORACLE
MY IMAGES
MY DISKS
MSDN
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Windows Server Essentials Experience
Windows Server 2012 R2
Windows Server 2012 Datacenter
Windows Server 2008 R2 SP1
SharePoint Server 2013 Trial
SQL Server 2014 CTP2 Evaluation
Windows Server 2012 R2
SQL Server 2014 CTP2 Evaluation for Data Warehousing
Windows Server 2012
Windows Server 2012 R2 Datacenter
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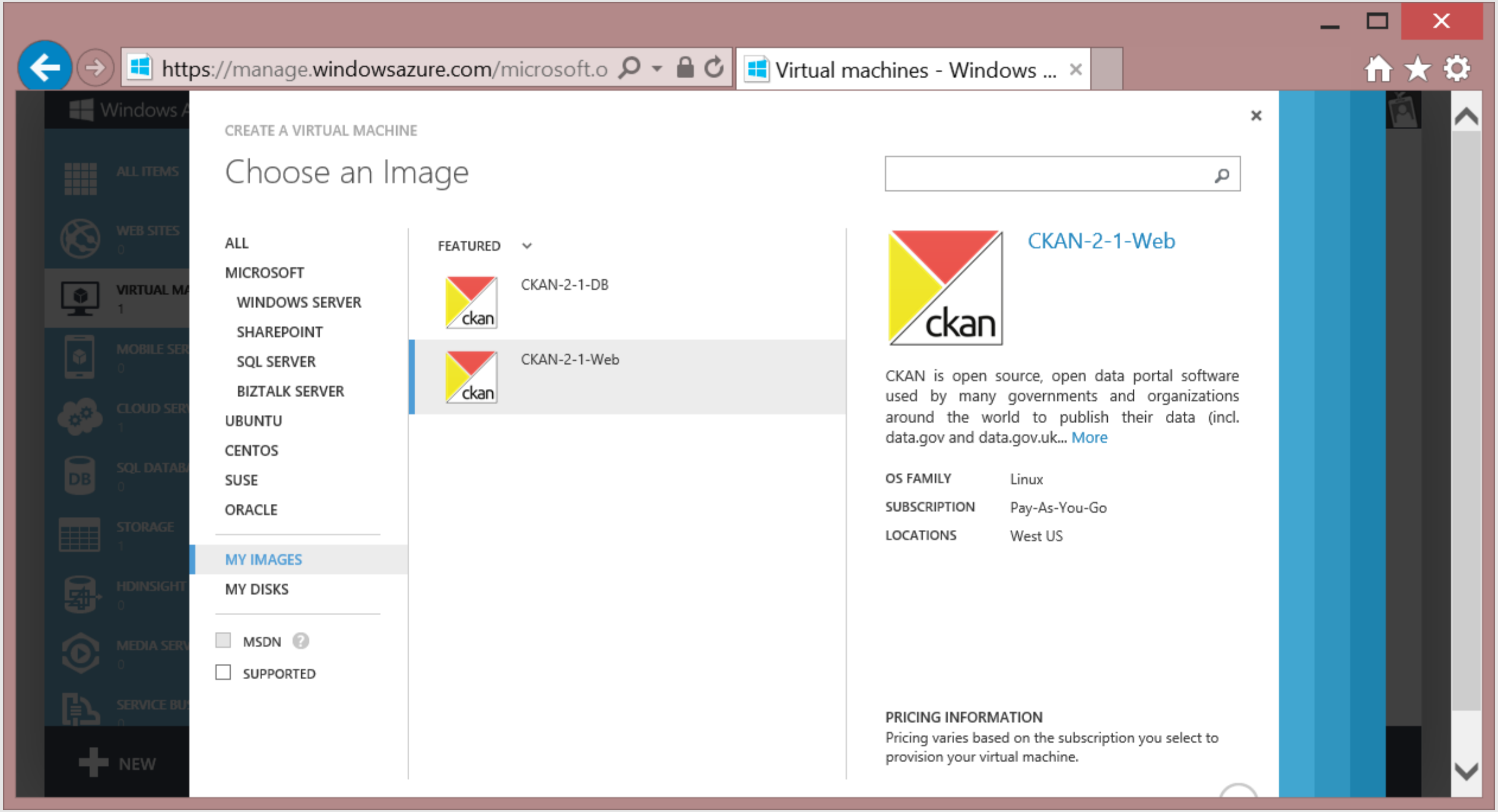
https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
CREATE A VIRTUAL MACHINE
Choose an Image
ALL
MICROSOFT
WINDOWS SERVER
SHAREPOINT
SQL SERVER
BIZTALK SERVER
UBUNTU
CENTOS
SUSE
ORACLE
MY IMAGES
MY DISKS
MSDN
SUPPORTED
FEATURED
CKAN-2-1-DB
CKAN-2-1-Web
CKAN-2-1-Web
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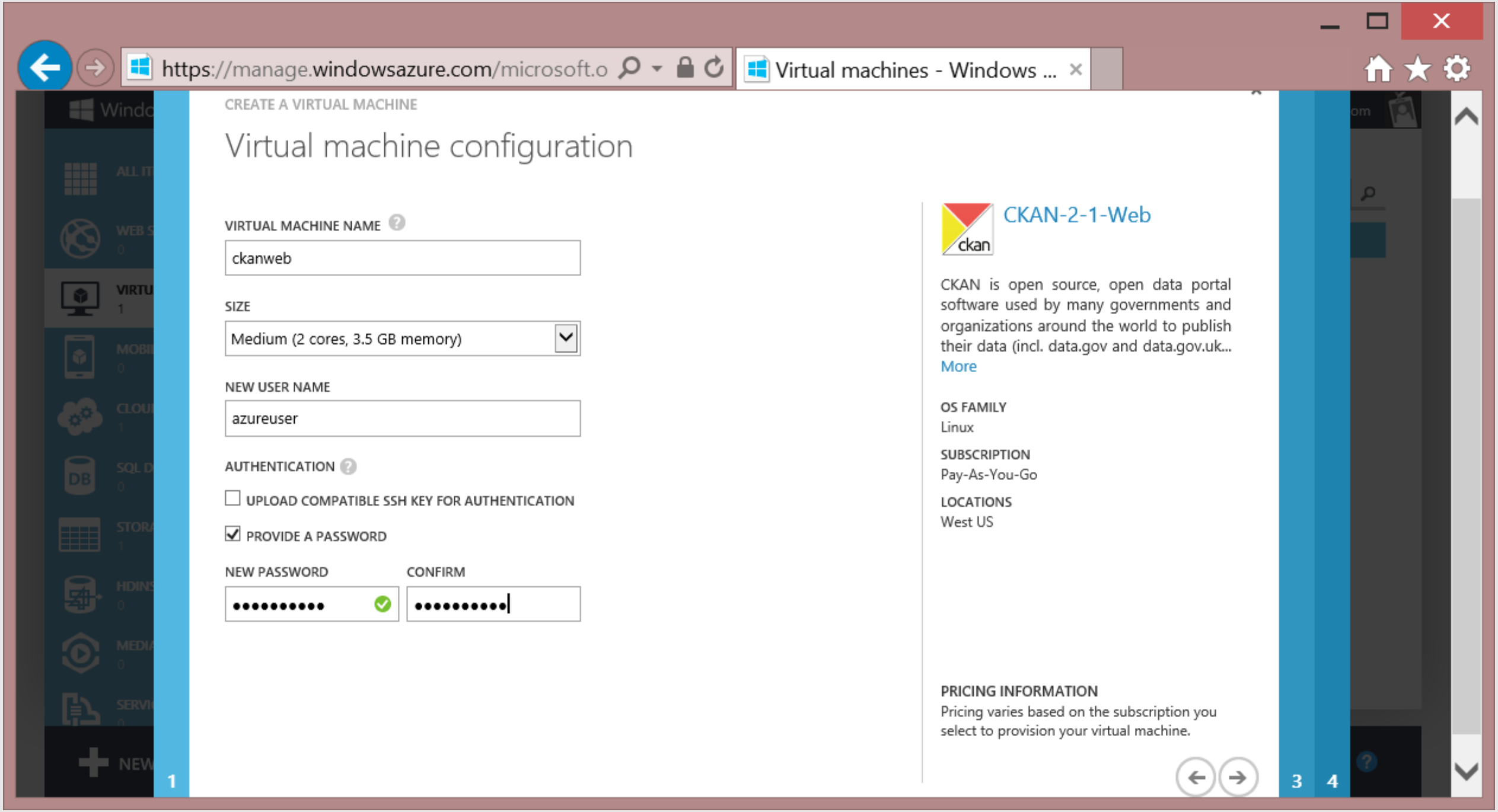
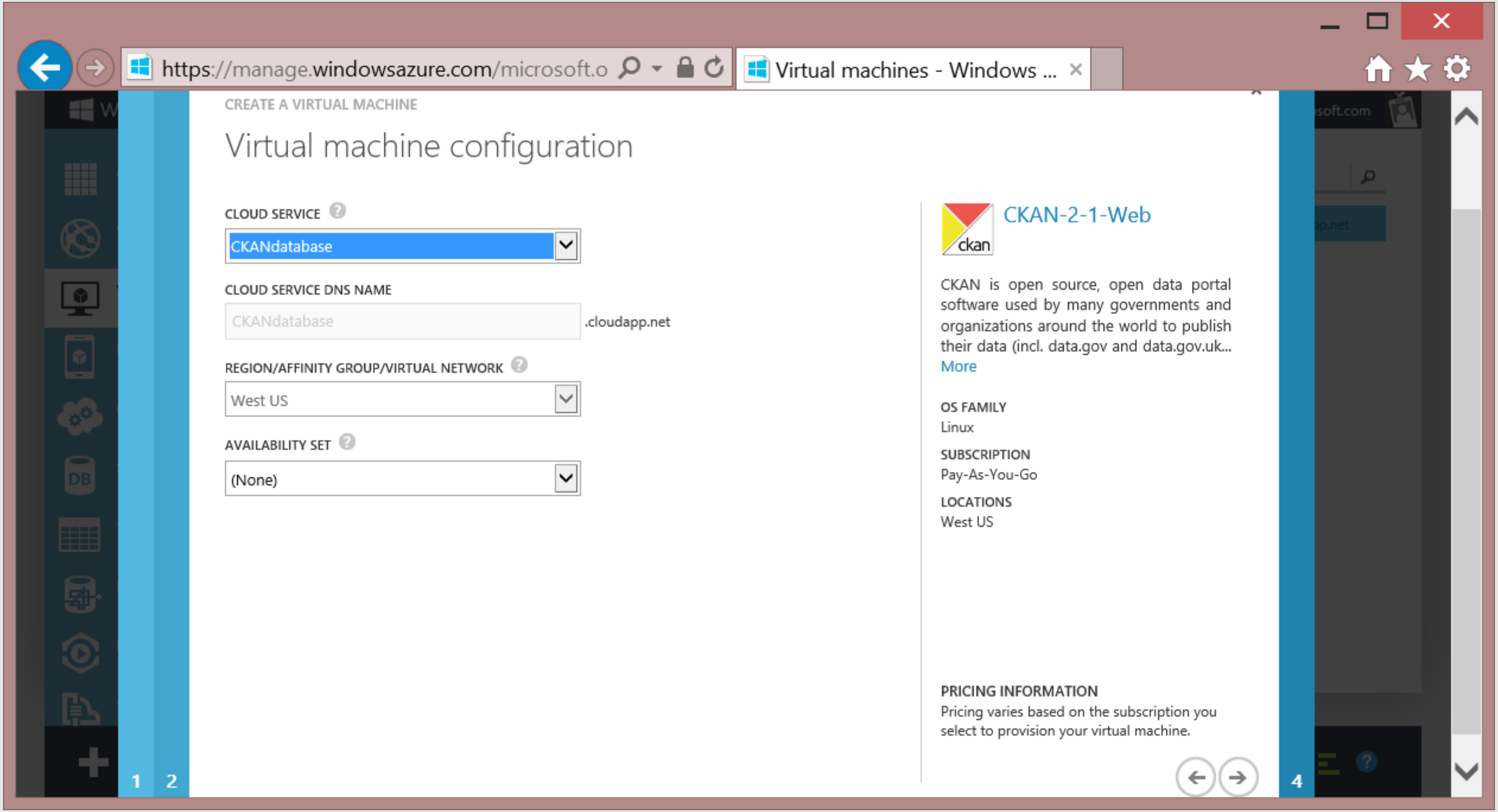
OS FAMILY Linux
SUBSCRIPTION Pay-As-You-Go
LOCATIONS West US
PRICING INFORMATION
Pricing varies based on the subscription you select to provision your virtual machine.
NEW


https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
CREATE A VIRTUAL MACHINE
Virtual machine configuration
VIRTUAL MACHINE NAME
ckanweb
SIZE
Medium (2 cores, 3.5 GB memory)
NEW USER NAME
azureuser
AUTHENTICATION
UPLOAD COMPATIBLE SSH KEY FOR AUTHENTICATION
PROVIDE A PASSWORD
NEW PASSWORD
CONFIRM
CKAN-2-1-Web
CKAN is open source, open data portal software used by many governments and organizations around the world to publish their data (incl. data.gov and data.gov.uk...
More
OS FAMILY
Linux
SUBSCRIPTION
Pay-As-You-Go
LOCATIONS
West US
PRICING INFORMATION
Pricing varies based on the subscription you select to provision your virtual machine.
1
3
4


https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
CREATE A VIRTUAL MACHINE
Virtual machine configuration
CLOUD SERVICE
CKANdatabase
CLOUD SERVICE DNS NAME
CKANdatabase
.cloudapp.net
REGION/AFFINITY GROUP/VIRTUAL NETWORK
West US
AVAILABILITY SET
(None)
CKAN-2-1-Web
CKAN is open source, open data portal software used by many governments and organizations around the world to publish their data (incl. data.gov and data.gov.uk...
More
OS FAMILY
Linux
SUBSCRIPTION
Pay-As-You-Go
LOCATIONS
West US
PRICING INFORMATION
Pricing varies based on the subscription you select to provision your virtual machine.
1
2
4

https://manage.windowsazure.com/microsoft.o

Virtual machines - Windows ...

CREATE A VIRTUAL MACHINE

Virtual machine configuration

ENDPOINTS

NAME	PROTOCOL	PUBLIC PORT	PRIVATE PORT
SSH	TCP	22	22
ENTER OR SELECT A VALUE			

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1 2 3

CKAN-2-1-Web

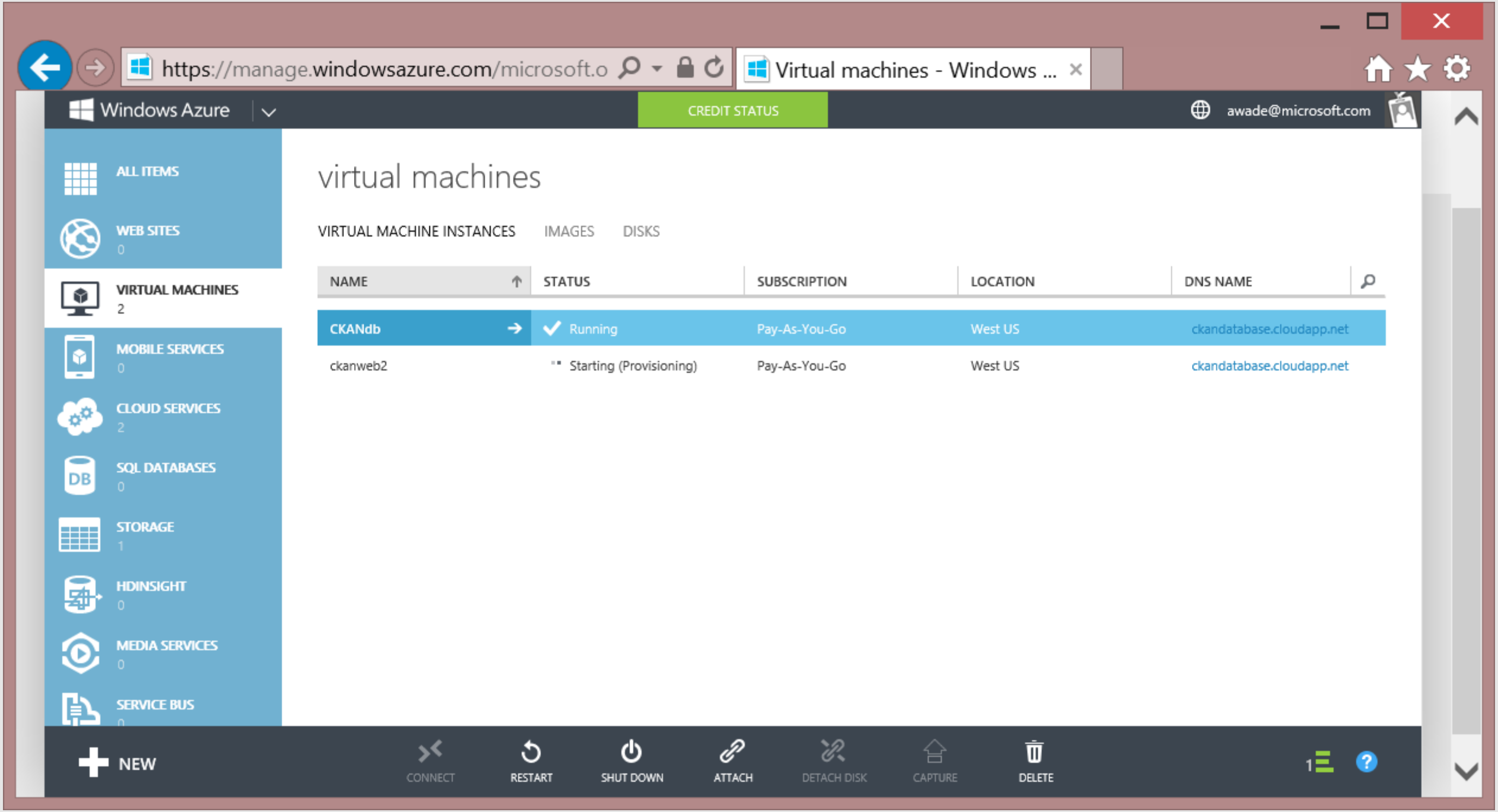
CKAN is open source, open data portal software used by many governments and organizations around the world to publish their data (incl. data.gov and data.gov.uk... More

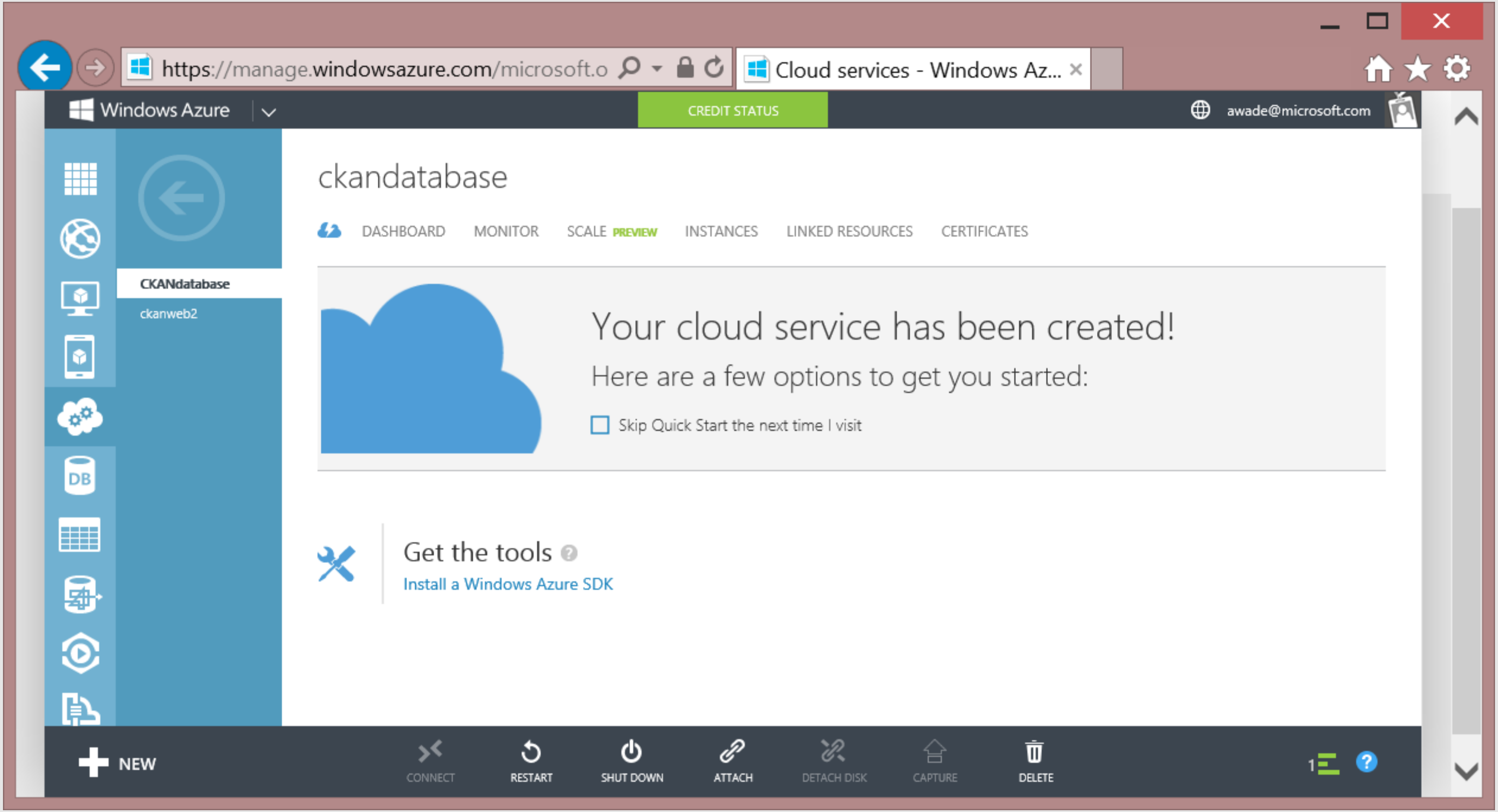
OS FAMILY
Linux

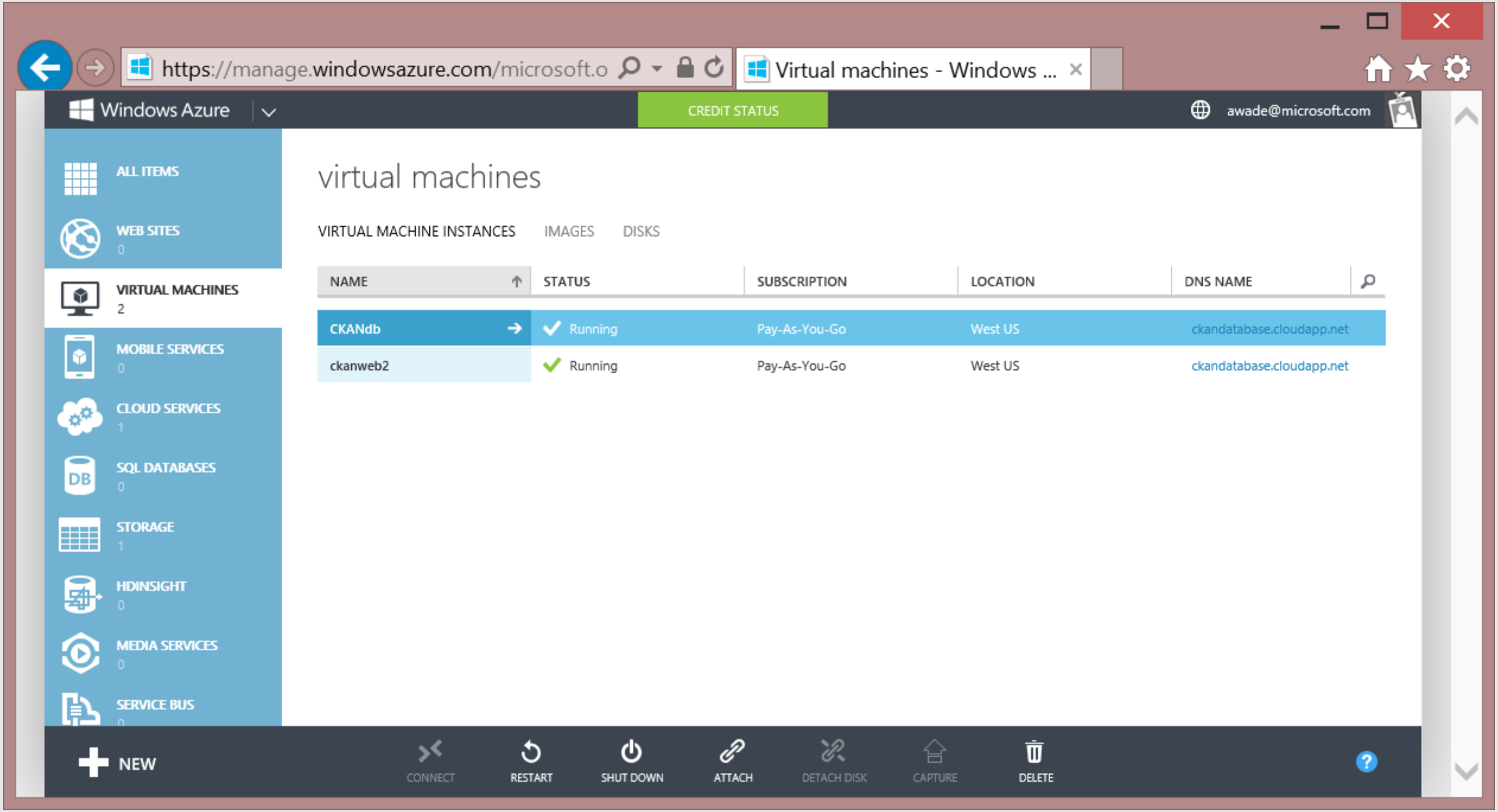
SUBSCRIPTION
Pay-As-You-Go

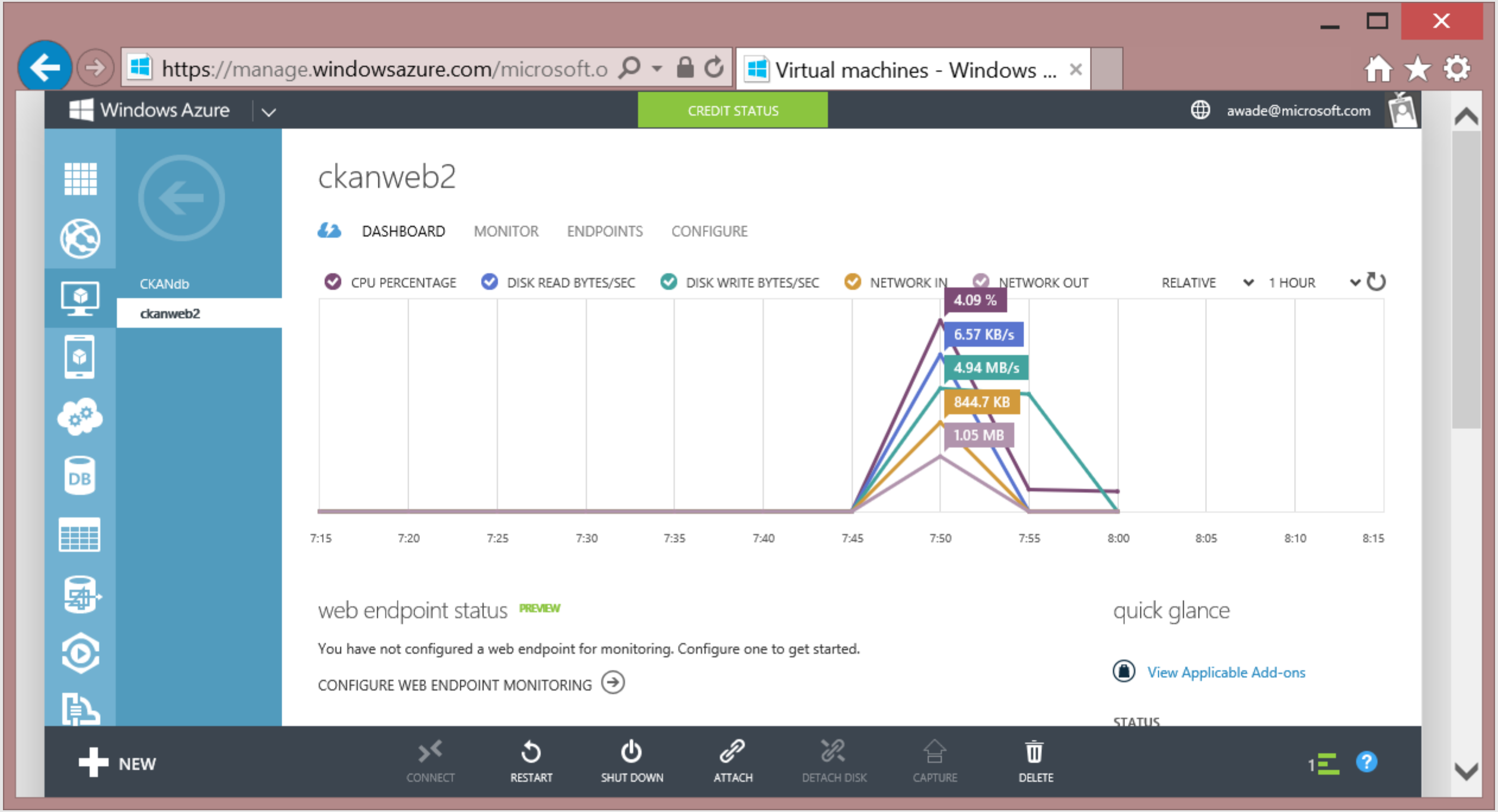
LOCATIONS
West US

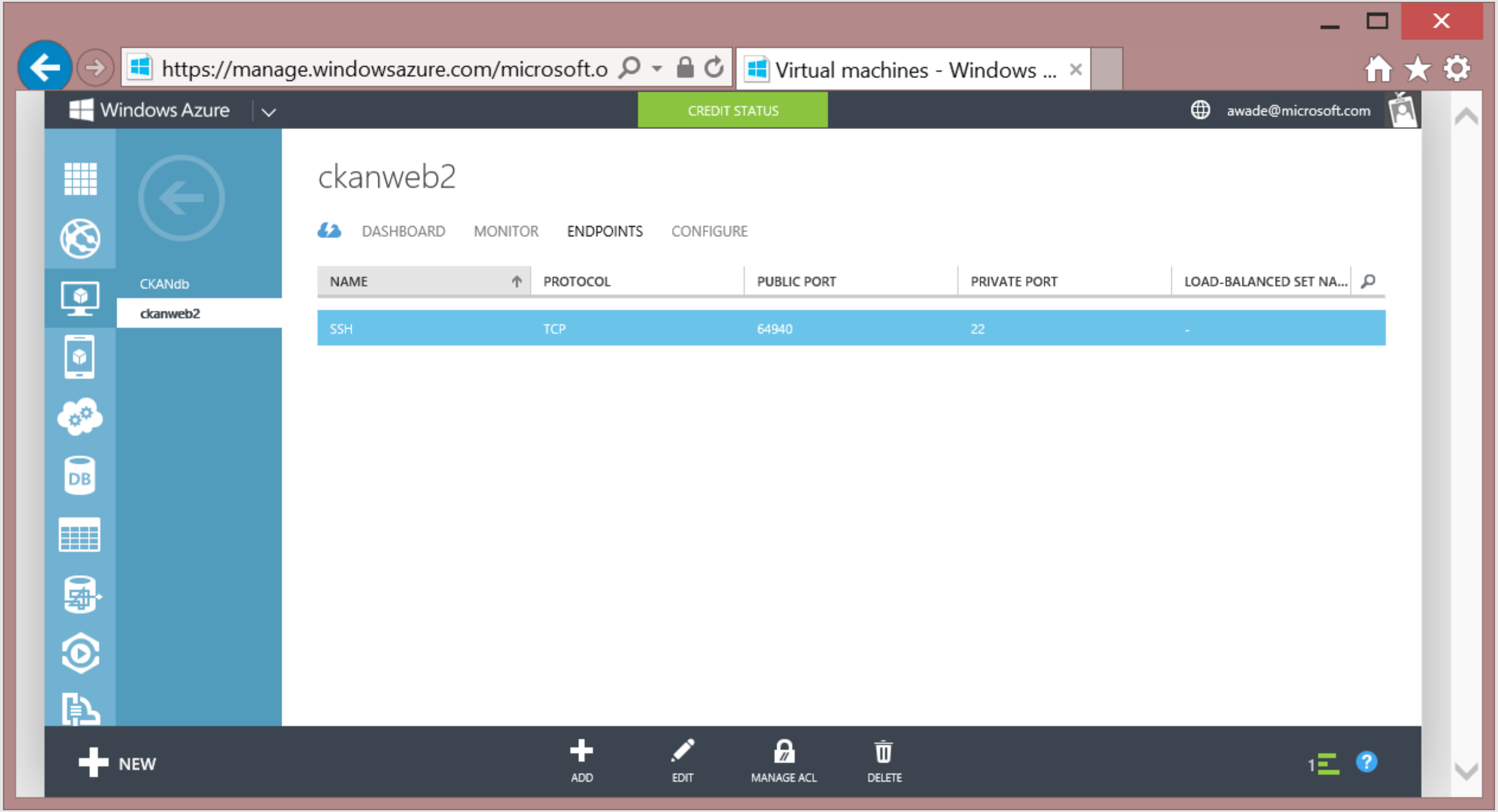
PRICING INFORMATION
Pricing varies based on the subscription you select to provision your virtual machine.

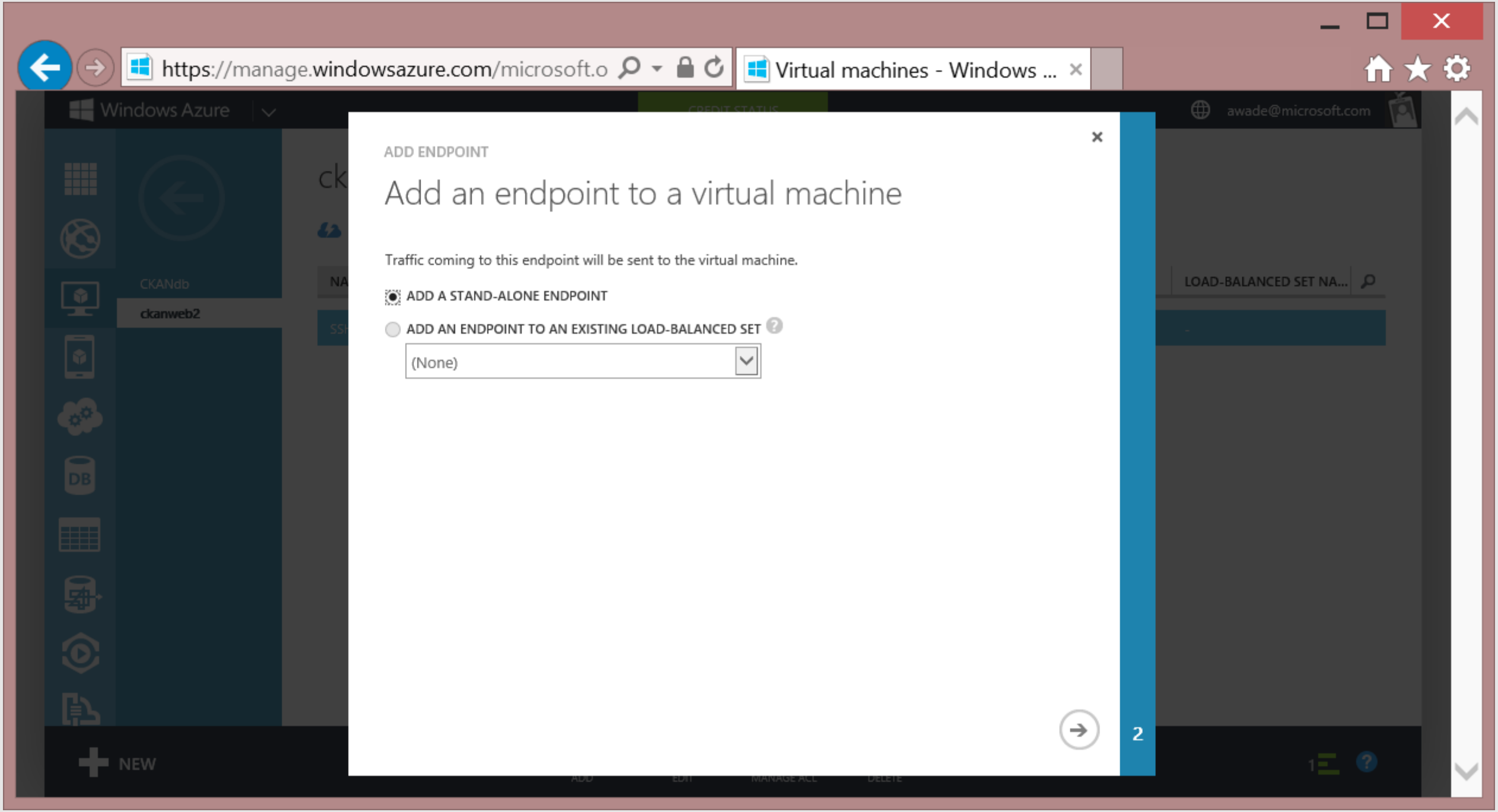

https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
Windows Azure
CREDIT STATUS
awade@microsoft.com
ALL ITEMS
WEB SITES
0
VIRTUAL MACHINES
2
MOBILE SERVICES
0
CLOUD SERVICES
2
SQL DATABASES
0
STORAGE
1
HDINSIGHT
0
MEDIA SERVICES
0
SERVICE BUS
virtual machines
VIRTUAL MACHINE INSTANCES
IMAGES
DISKS
NAME
STATUS
SUBSCRIPTION
LOCATION
DNS NAME
CKANdb
Running
Pay-As-You-Go
West US
ckandatabase.cloudapp.net
ckanweb2
Starting (Provisioning)
Pay-As-You-Go
West US
ckandatabase.cloudapp.net
NEW
CONNECT
RESTART
SHUT DOWN
ATTACH
DETACH DISK
CAPTURE
DELETE

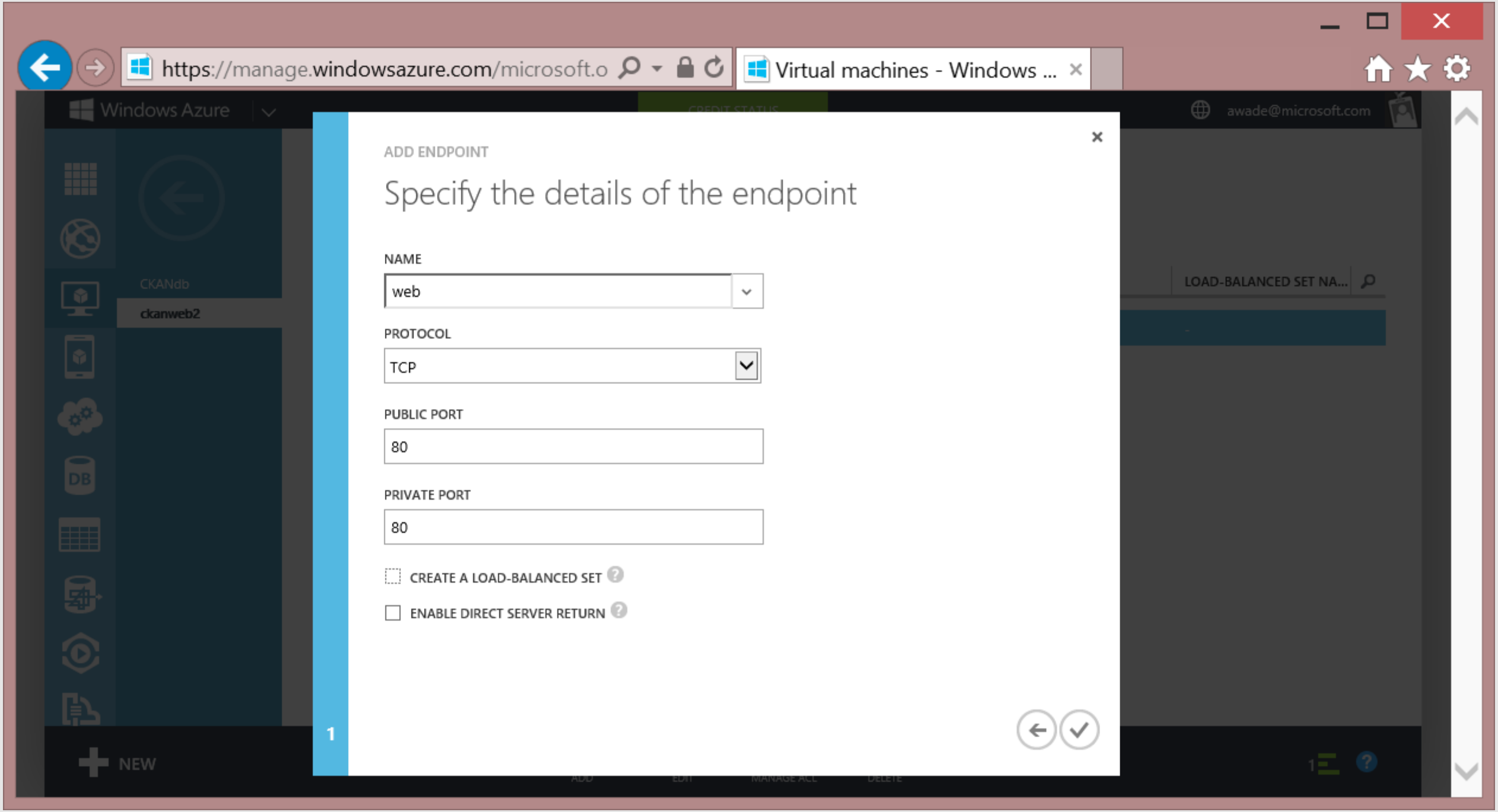

https://manage.windowsazure.com/microsoft.o
Cloud services - Windows Az...
Windows Azure
CREDIT STATUS
awade@microsoft.com
ckandatabase
DASHBOARD
MONITOR
SCALE PREVIEW
INSTANCES
LINKED RESOURCES
CERTIFICATES
CKANdatabase
ckanweb2
Your cloud service has been created!
Here are a few options to get you started:
Skip Quick Start the next time I visit
Get the tools
Install a Windows Azure SDK
NEW
CONNECT
RESTART
SHUT DOWN
ATTACH
DETACH DISK
CAPTURE
DELETE

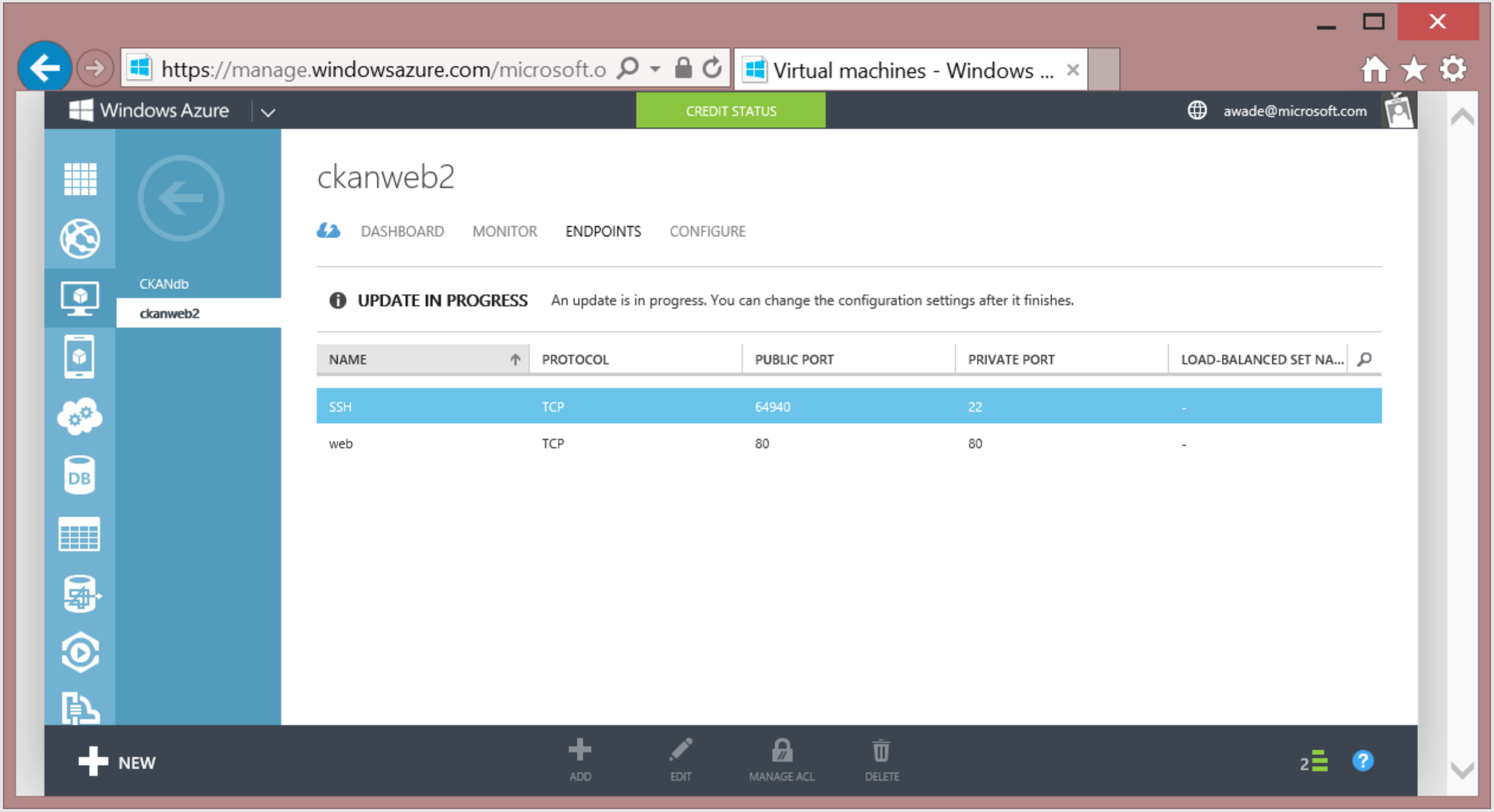

https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
Windows Azure
CREDIT STATUS
awade@microsoft.com
ALL ITEMS
WEB SITES
0
VIRTUAL MACHINES
2
MOBILE SERVICES
0
CLOUD SERVICES
1
SQL DATABASES
0
STORAGE
1
HDINSIGHT
0
MEDIA SERVICES
0
SERVICE BUS
virtual machines
VIRTUAL MACHINE INSTANCES
IMAGES
DISKS
NAME
STATUS
SUBSCRIPTION
LOCATION
DNS NAME
CKANdb
Running
Pay-As-You-Go
West US
ckandatabase.cloudapp.net
ckanweb2
Running
Pay-As-You-Go
West US
ckandatabase.cloudapp.net
NEW
CONNECT
RESTART
SHUT DOWN
ATTACH
DETACH DISK
CAPTURE
DELETE

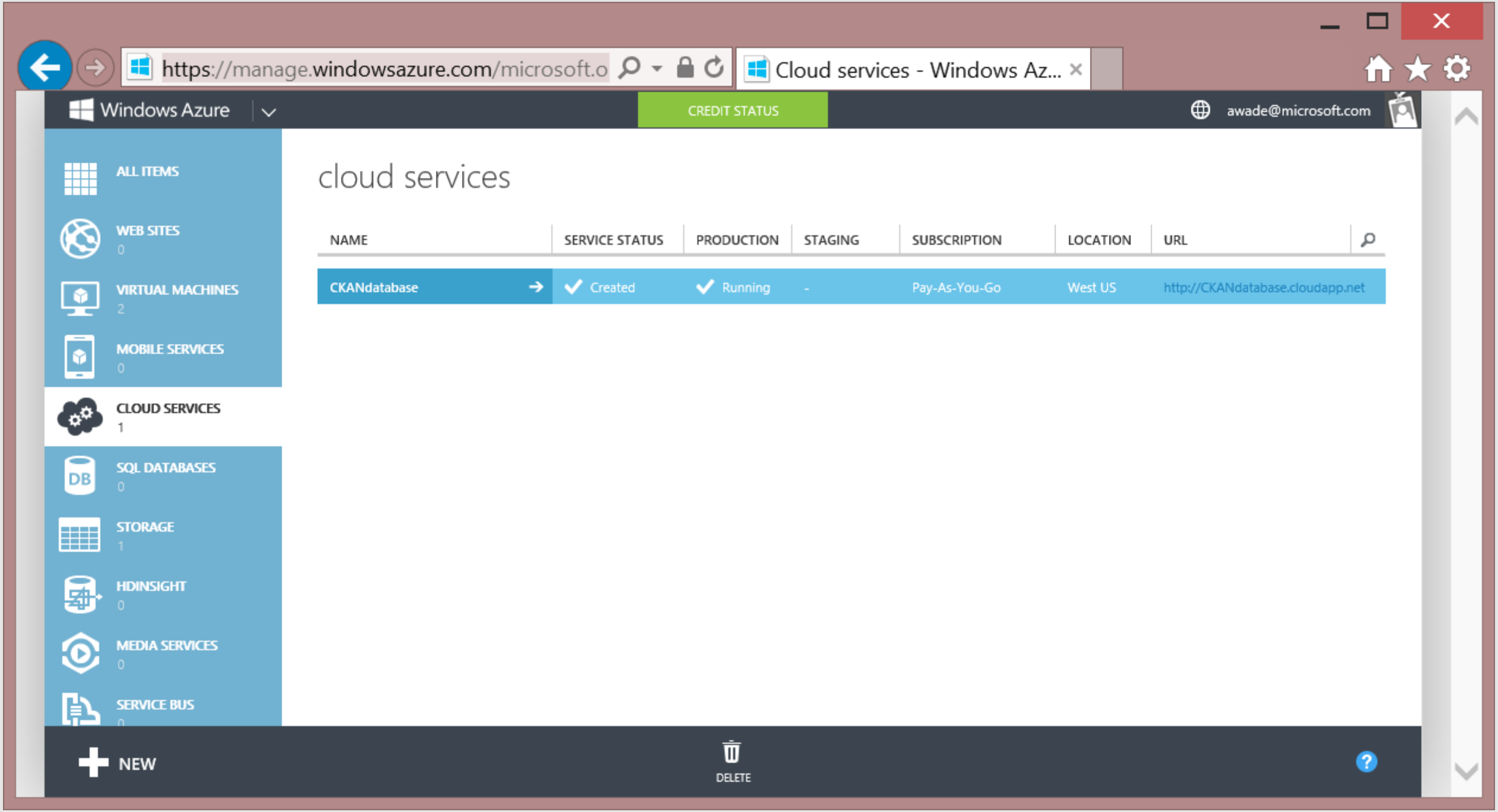

https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
Windows Azure
CREDIT STATUS
awade@microsoft.com
CKANdb
ckanweb2
ckanweb2
DASHBOARD
MONITOR
ENDPOINTS
CONFIGURE
CPU PERCENTAGE
DISK READ BYTES/SEC
DISK WRITE BYTES/SEC
NETWORK IN
NETWORK OUT
RELATIVE
1 HOUR
4.09 %
6.57 KB/s
4.94 MB/s
844.7 KB
1.05 MB
7:15
7:20
7:25
7:30
7:35
7:40
7:45
7:50
7:55
8:00
8:05
8:10
8:15
web endpoint status
PREVIEW
You have not configured a web endpoint for monitoring. Configure one to get started.
CONFIGURE WEB ENDPOINT MONITORING
quick glance
View Applicable Add-ons
STATUS
NEW
CONNECT
RESTART
SHUT DOWN
ATTACH
DETACH DISK
CAPTURE
DELETE


https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
Windows Azure
CREDIT STATUS
awade@microsoft.com
CKANdb
ckanweb2
ckanweb2
DASHBOARD
MONITOR
ENDPOINTS
CONFIGURE
NAME
PROTOCOL
PUBLIC PORT
PRIVATE PORT
LOAD-BALANCED SET NA...
SSH
TCP
64940
22
-
NEW
ADD
EDIT
MANAGE ACL
DELETE


https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
Windows Azure
awade@microsoft.com
ADD ENDPOINT
Add an endpoint to a virtual machine
Traffic coming to this endpoint will be sent to the virtual machine.
ADD A STAND-ALONE ENDPOINT
ADD AN ENDPOINT TO AN EXISTING LOAD-BALANCED SET
(None)
2
CKANdb
ckanweb2
LOAD-BALANCED SET NA...
NEW


https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
Windows Azure
awade@microsoft.com
CKANdb
ckanweb2
LOAD-BALANCED SET NA...
NEW
ADD ENDPOINT
Specify the details of the endpoint
NAME
web
PROTOCOL
TCP
PUBLIC PORT
80
PRIVATE PORT
80
CREATE A LOAD-BALANCED SET
ENABLE DIRECT SERVER RETURN
1


https://manage.windowsazure.com/microsoft.o
Virtual machines - Windows ...
Windows Azure
CREDIT STATUS
awade@microsoft.com
CKANdb
ckanweb2
ckanweb2
DASHBOARD
MONITOR
ENDPOINTS
CONFIGURE
UPDATE IN PROGRESS
An update is in progress. You can change the configuration settings after it finishes.
NAME
PROTOCOL
PUBLIC PORT
PRIVATE PORT
LOAD-BALANCED SET NA...
SSH
TCP
64940
22
-
web
TCP
80
80
-
NEW
ADD
EDIT
MANAGE ACL
DELETE
2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Windows Azure
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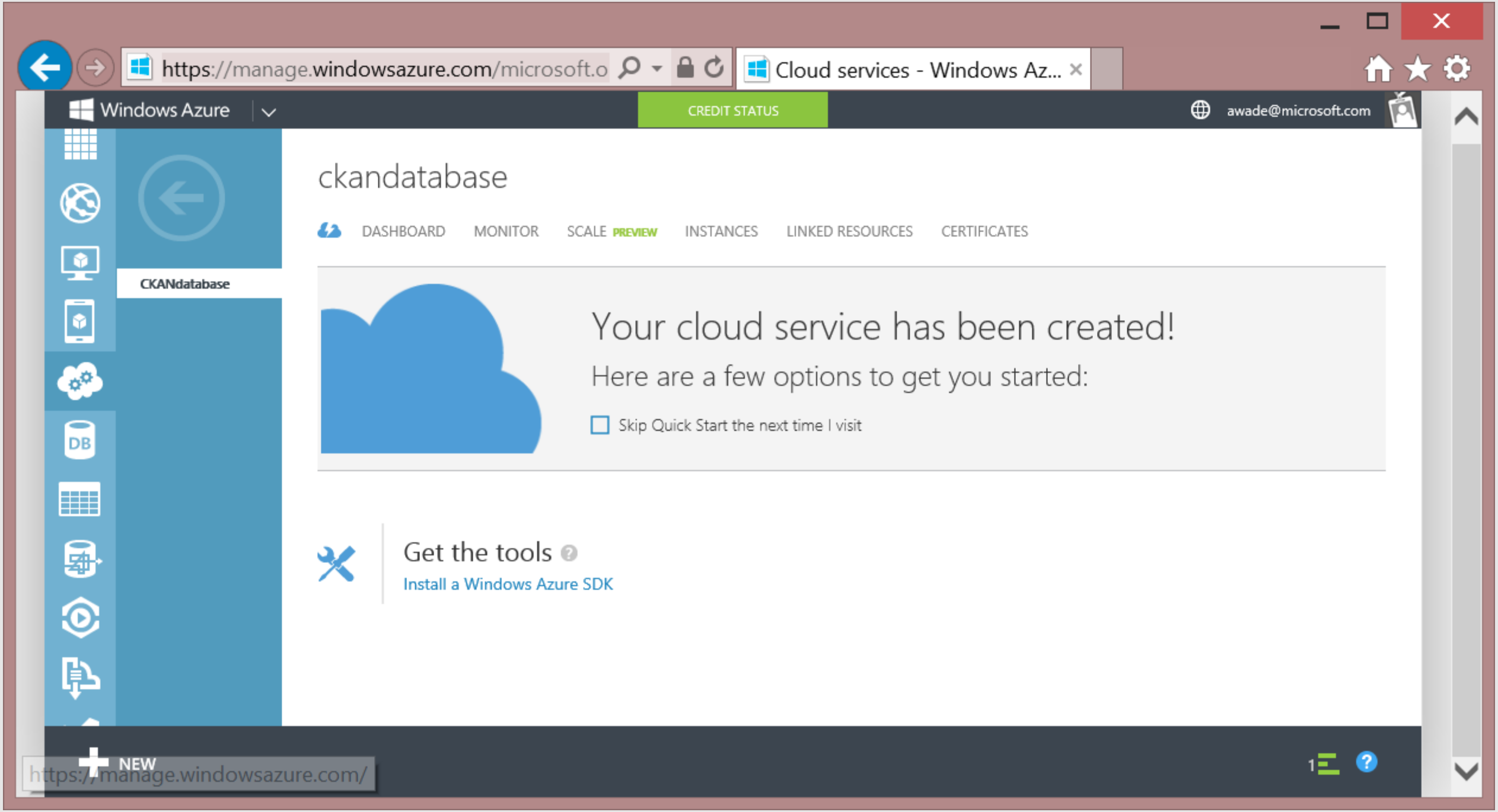
ALL ITEMS
WEB SITES
0
VIRTUAL MACHINES
2
MOBILE SERVICES
0
CLOUD SERVICES
1
SQL DATABASES
0
STORAGE
1
HDINSIGHT
0
MEDIA SERVICES
0
SERVICE BUS
cloud services
NAME
SERVICE STATUS
PRODUCTION
STAGING
SUBSCRIPTION
LOCATION
URL
CKANdatabase
Created
Running
-
Pay-As-You-Go
West US
http://CKANdatabase.cloudapp.net
NEW
DELETE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Cloud services - Windows Az...
Windows Azure
CREDIT STATUS
awade@microsoft.com
ckandatabase
DASHBOARD
MONITOR
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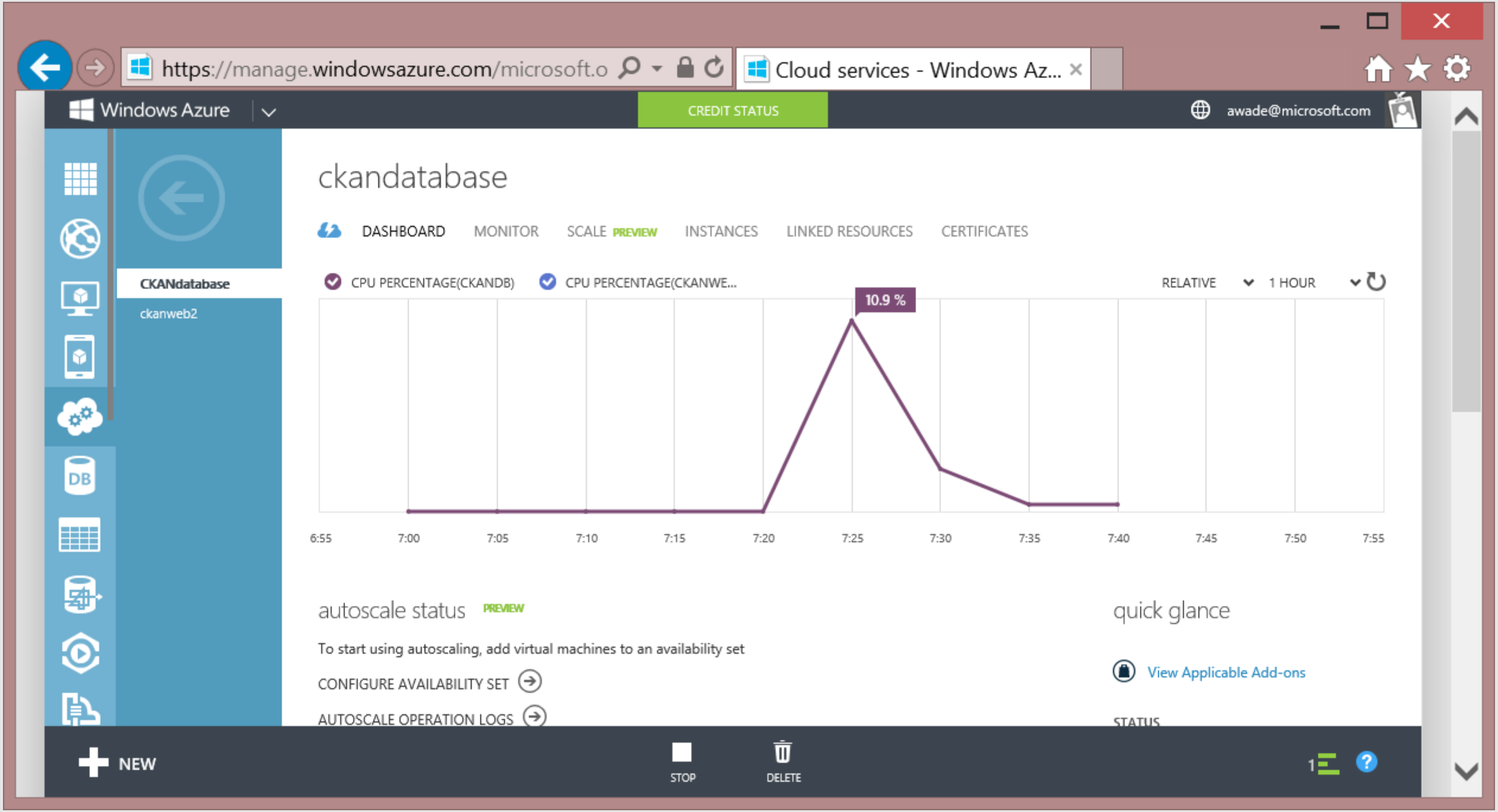
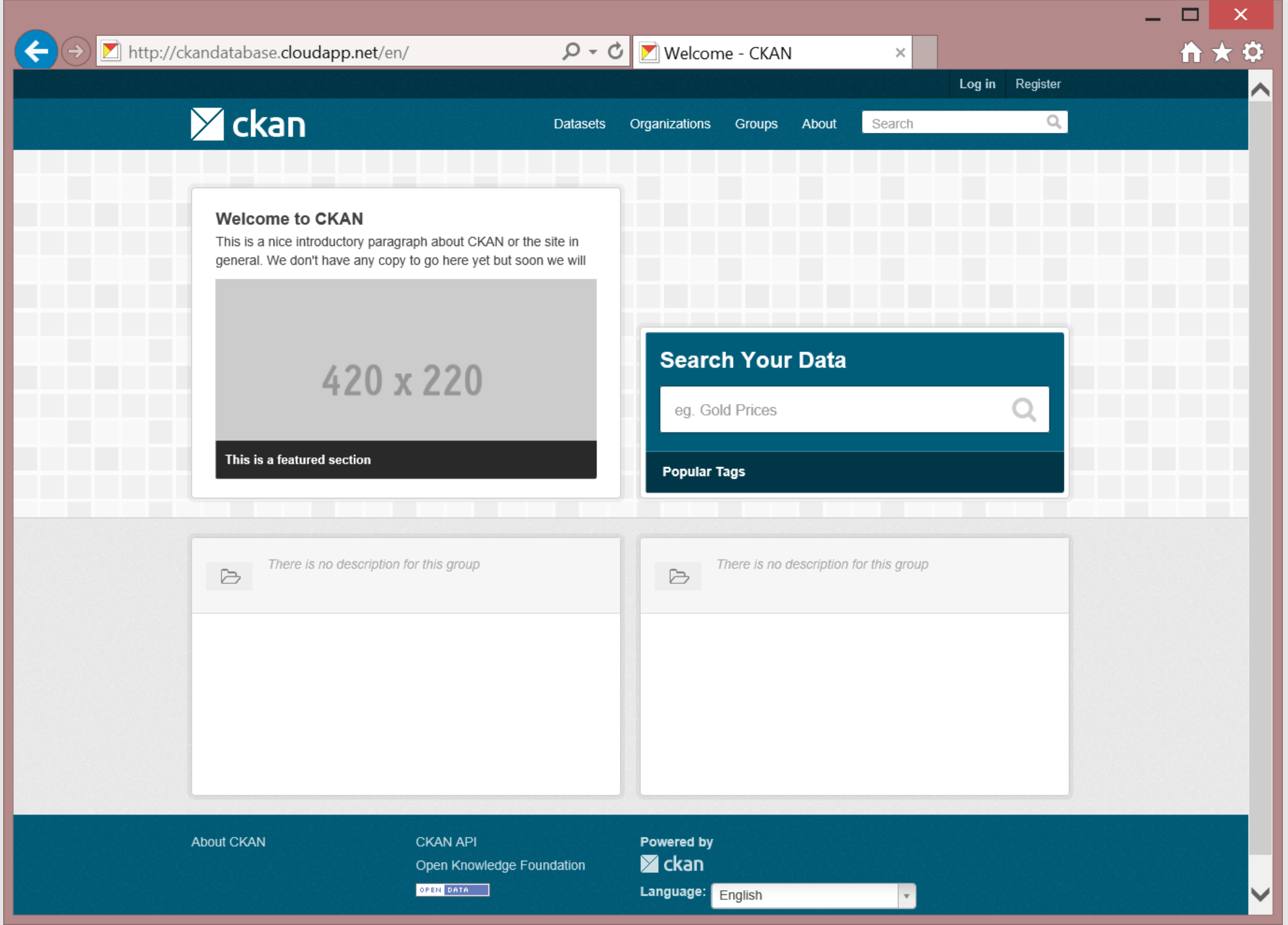
NEW
https://manage.windowsazure.com/


https://manage.windowsazure.com/microsoft.o
Cloud services - Windows Az...
Windows Azure
CREDIT STATUS
awade@microsoft.com
CKANdatabase
ckanweb2
ckandatabase
DASHBOARD
MONITOR
SCALE PREVIEW
INSTANCES
LINKED RESOURCES
CERTIFICATES
CPU PERCENTAGE(CKANDB)
CPU PERCENTAGE(CKANWE...
RELATIVE
1 HOUR
10.9 %
6:55
7:00
7:05
7:10
7:15
7:20
7:25
7:30
7:35
7:40
7:45
7:50
7:55
autoscale status
PREVIEW
To start using autoscaling, add virtual machines to an availability set
CONFIGURE AVAILABILITY SET
AUTOSCALE OPERATION LOGS
quick glance
View Applicable Add-ons
STATUS
NEW
STOP
DELETE

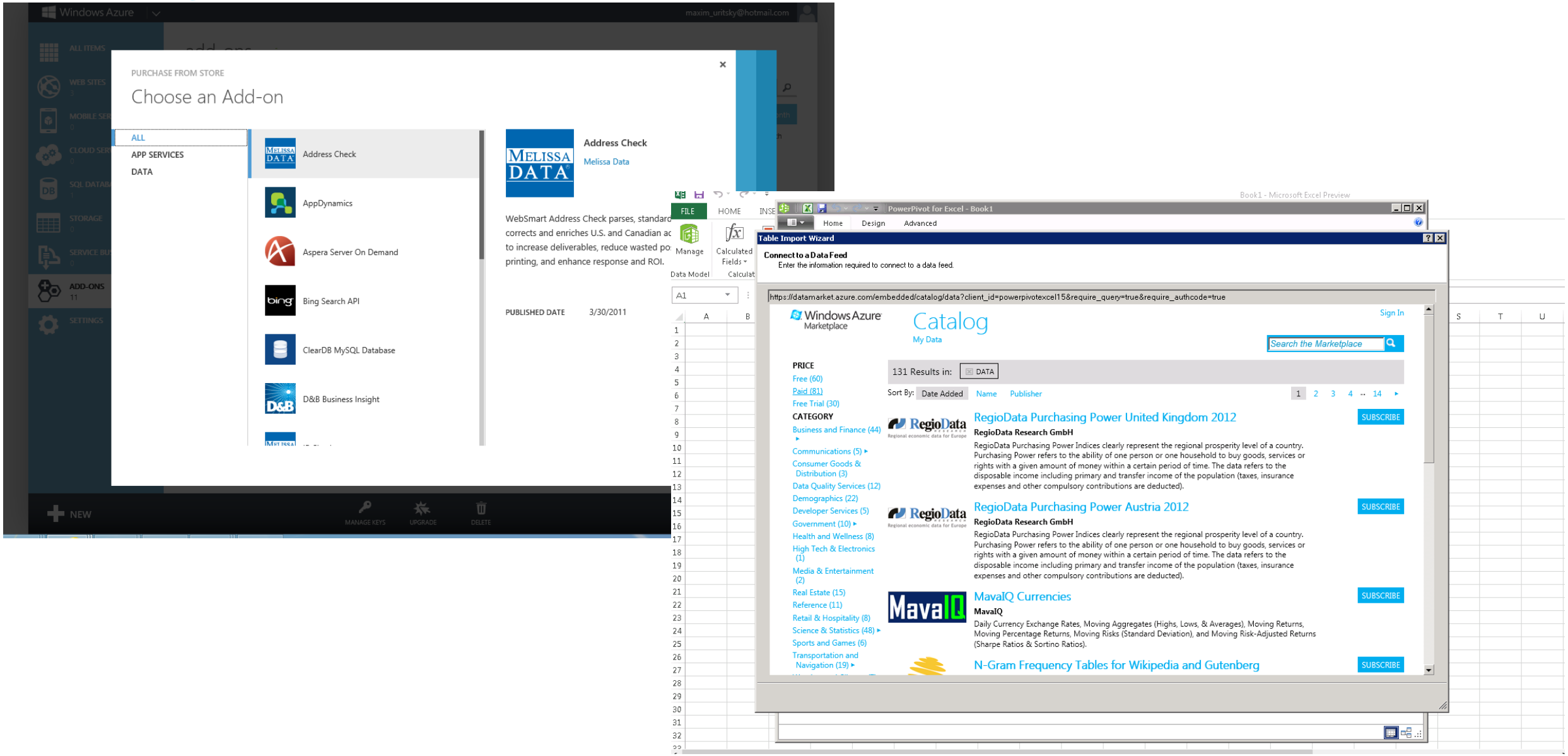

http://ckandatabase.cloudapp.net/en/
Welcome - CKAN
Log in
Register
ckan
Datasets
Organizations
Groups
About
Search
Welcome to CKAN
This is a nice introductory paragraph about CKAN or the site in general. We don't have any copy to go here yet but soon we will
420 x 220
This is a featured section
Search Your Data
eg. Gold Prices
Popular Tags
There is no description for this group
There is no description for this group
About CKAN
CKAN API
Open Knowledge Foundation
OPEN DATA
Powered by
ckan
Language:
English

Discovery

Azure DataMarket

Windows Azure Marketplace

Integration into Azure, Excel, CRM, etc.



Azure DataMarket

demo

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