

Video 6.4

Creating and Configuring a Virtual Machine in Microsoft Azure



In this Video, we are going to take a look at...

- Creating a virtual machine in Microsoft Azure
- Verifying the newly created virtual machine

Microsoft Azure



Your subscription file is being generated, and the download will begin shortly.

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1 Sign up for Windows Azure preview features

[Sign up for Windows Azure preview features](#) that you are interested in.

2 Save a local copy of the publishSettings file

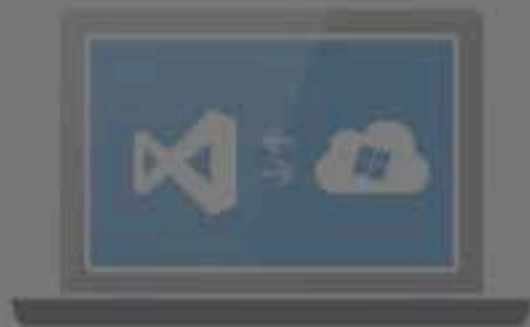
Warning This file contains an encoded management certificate. It serves as your credentials to administer your subscriptions and related services. Store this file in a secure location or delete it after you use it.

3 Import the publishSettings file

Run the following command

```
azure account import
```

Microsoft Azure



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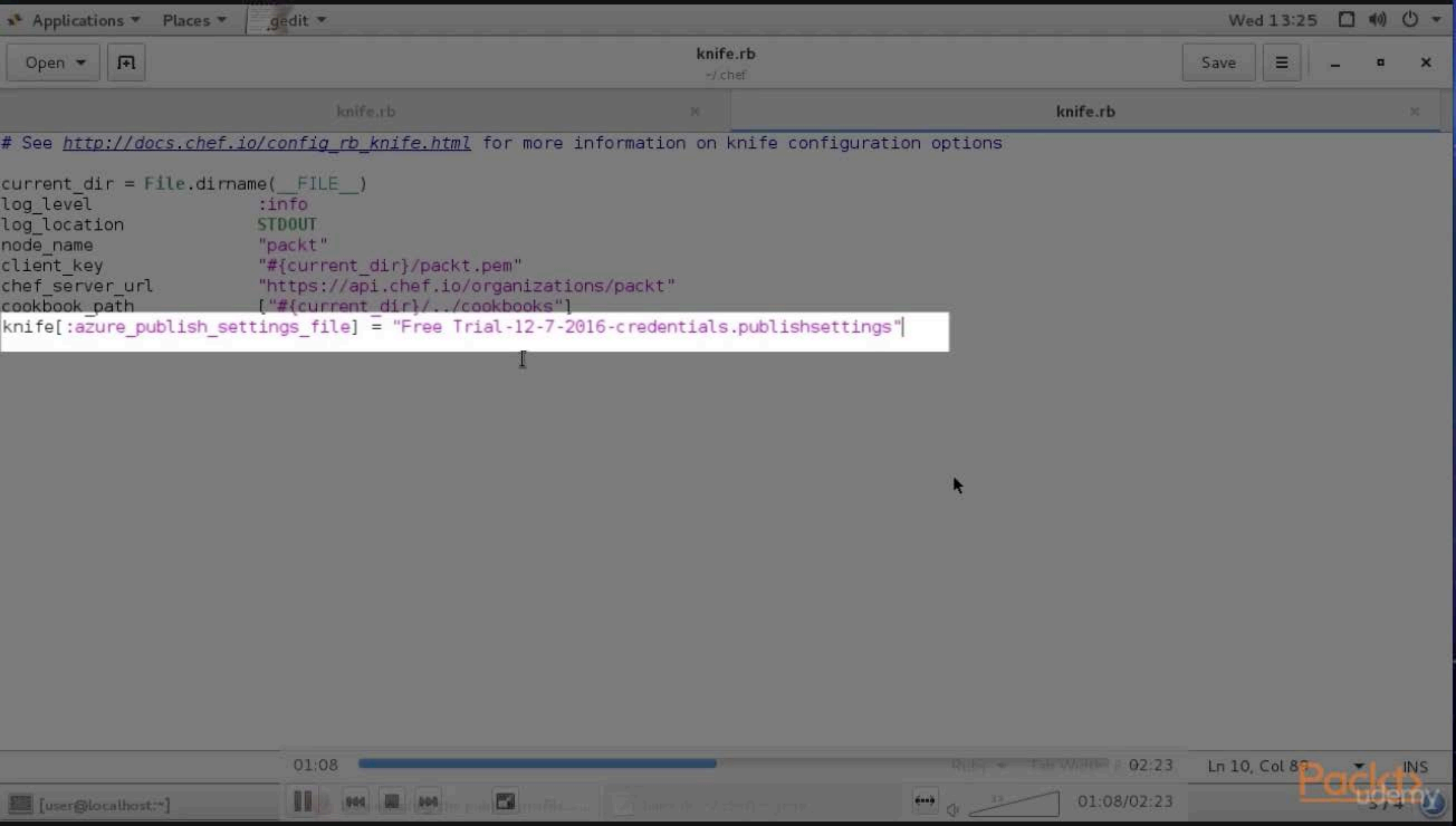
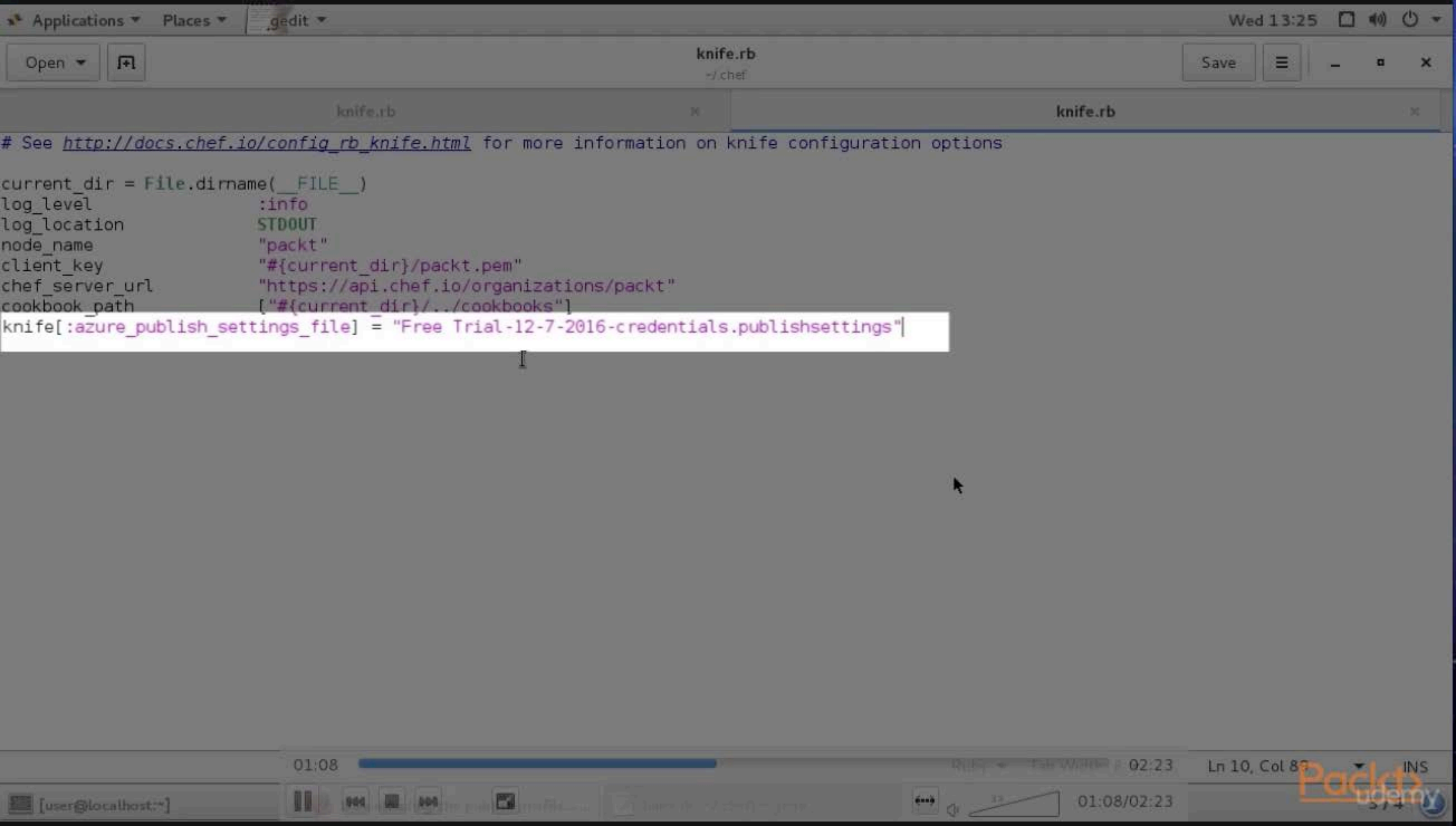
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See http://docs.chef.io/config_rb_knife.html for more information on knife configuration options

```
current_dir = File.dirname(__FILE__)
log_level      :info
log_location   STDOUT
node_name      "packt"
client_key      "#{current_dir}/packt.pem"
chef_server_url "https://api.chef.io/organizations/packt"
cookbook_path  ["#{current_dir}/../cookbooks"]
knife[:azure_publish_settings_file] = "Free Trial-12-7-2016-credentials.publishsettings"
```

I



Parameters for VM in Microsoft Azure

Parameter	Value	description
--azure-dns-name	videotestingoutlook	DNS name
--azure-vm-name	tomcatserver1	Virtual machine name
--azure-vm-size	Small	Virtual machine size
-N	DevOpsVMonAzure2	Name of the Chef node
--azure-storage-account	classicstorage9883	Azure storage account
--bootstrap-protocol	cloud-api	Bootstrap protocol

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Parameters for VM in Microsoft Azure

<code>--azure-source-image</code>	5112500ae3b842c8b9c604889f8753c3__OpenLogic-CentOS-67-20160310	Name of the Azure source image
<code>--azure-service-location</code>	Central US	Azure location to host virtual machine
<code>--ssh-user</code>	dtechno	SSH user
<code>--ssh-password</code>	<YOUR PASSWORD>	SSH password
<code>-r</code>	role[v-tomcat]	Chef role
<code>--ssh-port</code>	22	SSH port

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user@localhost:~/Desktop/chef/chef-repo

File Edit View Search Terminal Help

```
[user@localhost chef-repo]$ knife azure server create --azure-dns-name 'videotestingoutlook' --azure-vm-name 'dtserver02' --azure-vm-size 'Small' -N 'DevOpsVMonAzure3' --azure-source-image '5112500ae3b842c8b9c604889f8753c3__OpenLogic-CentOS-72-20161026' --azure-service-location 'Central US' --ssh-user 'user' --ssh-password 'cloud@123' -r 'role[v-tomcat]' --bootstrap-protocol ssh
```


user@localhost:~/Desktop/chef/chef-repo

File Edit View Search Terminal Help

```
52.173.73.34 Thank you for installing Chef!
52.173.73.34 Starting the first Chef Client run...
52.173.73.34 Starting Chef Client, version 12.17.44
52.173.73.34 Creating a new client identity for DevOpsVMonAzure using the validator key.
52.173.73.34 resolving cookbooks for run list: ["tomcat"]
52.173.73.34 Synchronizing Cookbooks:
52.173.73.34   - tomcat (2.3.4)
52.173.73.34   - compat_resource (12.16.2)
52.173.73.34 Installing Cookbook Gems:
52.173.73.34 Compiling Cookbooks...
52.173.73.34 [2016-12-13T10:08:43+00:00] WARN: The default tomcat recipe does nothing. See the readme for information on using
the tomcat resources
52.173.73.34 Converging 0 resources
52.173.73.34
52.173.73.34 Running handlers:
52.173.73.34 Running handlers complete
52.173.73.34 Chef Client finished, 0/0 resources updated in 08 seconds
```

DNS Name: packt-tomcatserver.cloudapp.net

VM Name: tomcatserver1

Size: Small

Azure Source Image: 5112500ae3b842c8b9c604889f8753c3__OpenLogic-CentOS-72-20161026

Azure Service Location: Central US

Public Ip Address: 52.173.73.34

Private Ip Address: 100.117.170.35

SSH Port: 22

Environment: _default

Runlist: ["role[v-tomcat]"]

[user@localhost chef-repo]\$

> Nodes

- Delete
- Manage Tags
- Reset Key
- Edit Run List
- Edit Attributes

Showing All Nodes

Node Name	Platform	FQDN	IP Address	Uptime	Last Check-In	Environment	Actions
tomcatserver	centos	localhost	192.168.6.246	3 hours	8 days ago	_default	
DevOpsVMonAWS	amazon	ip-172-31-29-225.us-...	172.31.29.225	a minute	4 days ago	_default	

Please select a node

> Nodes

Delete

Manage Tags

Reset Key

Edit Run List

Edit Attributes

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Node Name	Platform	FQDN	IP Address	Uptime	Last Check-In	Environment	Actions
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tomcatserver	centos	localhost	192.168.6.246	3 hours	8 days ago	_default	
DevOpsVMonAWS	amazon	ip-172-31-29-225.us-...	172.31.29.225	a minute	4 days ago	_default	

Node: DevOpsVMonAzure

Details Attributes Permissions

Last Check In: **A Minute Ago**

2016-12-13 10:08:38 UTC

Uptime: **3 Minutes**

Since 2016-12-13 10:08:39 UTC

Environment: **_default**

Platforms: centos

FQDN: tomcatserver1.packt-tomcatserver.g8.internal.cloudapp.net

IP Address: 100.117.170.35

Showing chef-client runs for 12/12/2016 - 12/13/2016 ▾

Runs Summary

No Data Available.

Run Counts

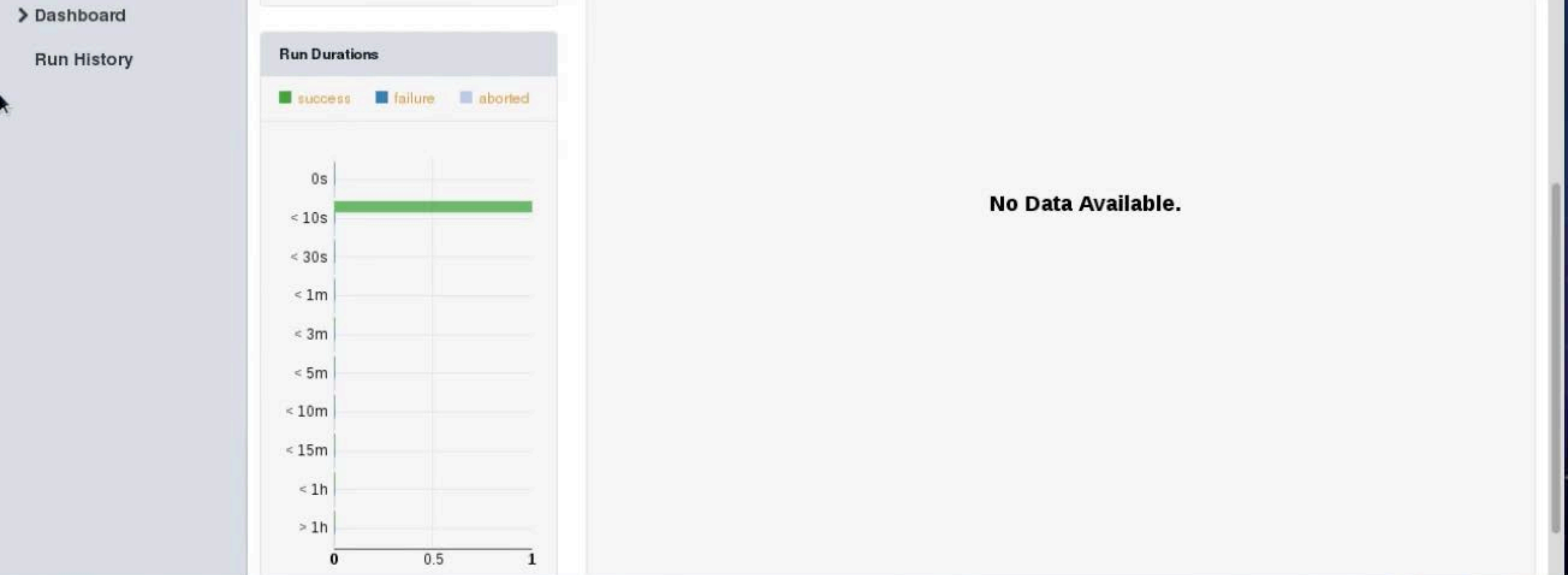
success failure aborted

No Data Available.

Run Durations

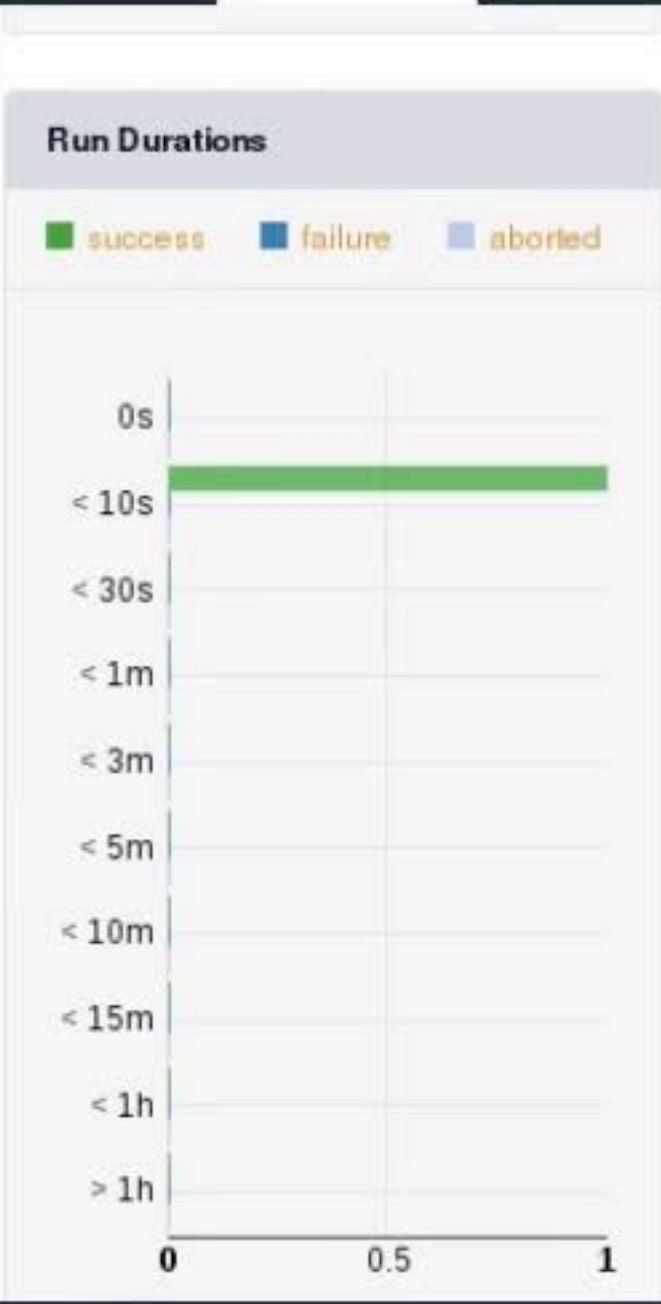
success failure aborted

No Data Available.



Dashboard

Run History



No Data Available.

Subscriptions: Free Trial

Filter by name...

4 items

NAME ▾	TYPE ▾	RESOURCE GROUP ▾	LOCATION ▾	SUBSCRIPTION ▾
 azeb87ff0ffa9atjafemtmej	Storage account (classic)	Default-Storage-CentralUS	Central US	Free Trial ...
 classicstorage11	Storage account	cloud	Central US	Free Trial ...
 packt-tomcatserver	Cloud service (classic)	packt-tomcatserver	Central US	Free Trial ...
 tomcatserver1	Virtual machine (classic)	packt-tomcatserver	Central US	Free Trial ...

Microsoft Azure All resources > Resource

videotestingoutlook (Default Directory)





+ Add Columns Refresh

Subscriptions: Free Trial

Filter by name...

4 items

NAME ▾

	azeb87ff0ffa9atjafemtmej	...
	classicstorage11	...
	packt-tomcatserver	...
	tomcatserver1	...

Resource

Search (Ctrl+ /)

- ☰
- + New
- All resources
- Resource groups
- App Services
- SQL databases
- SQL data warehouses
- NoSQL (DocumentDB)
- Virtual machines
- Load balancers
- Storage accounts
- Virtual networks

Dashboard ▾ + New dashboard Edit dashboard Share Fullscreen Clone Delete

All resources
ALL SUBSCRIPTIONS

tomcatserver1	Virtual machine (classic)
videotestingll	Cloud service (classic)
classicstorage11	Storage account
azeb87ff0ffa9atjafemtm:	Storage account (classic)

Get started

Virtual Machines
Provision Windows and Linux virtual machines in minutes

App Service
Create web and mobile apps for any platform and device

SQL Database
Managed relational database-as-a-service

Storage
Durable, highly available and massively scalable storage

Azure Portal

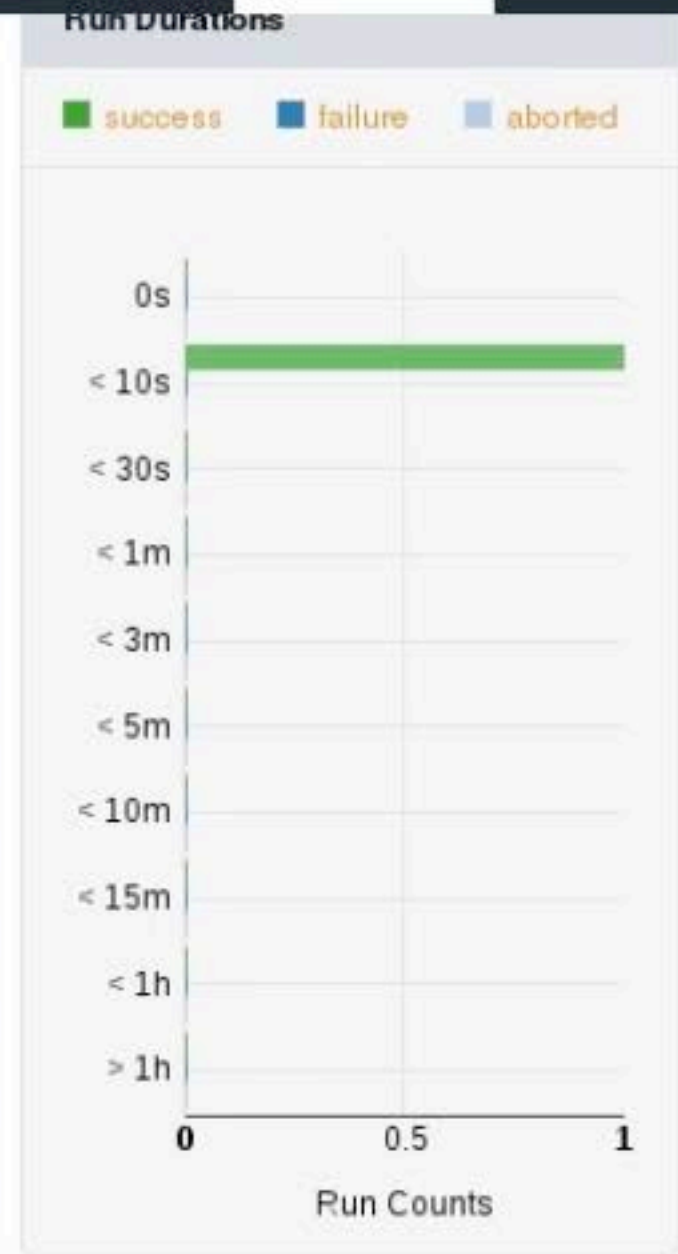
videotestingll
CLOUD SERVICE

Deleted

packt-tomcatserver
CLOUD SERVICE

Deleted

Service health
MY RESOURCES



Microsoft Azure All resources > tomcatserver1

videotestingoutlook (Default Directory)

+ Add 📄 Columns ↻ Refresh

Subscriptions: Free Trial

Filter by name...

4 items

NAME ▾	
🖥️ tomcatserver1	...
⚙️ packt-tomcatserver	...
💾 classicstorage11	...
🇸🇪 azeb87ff0ffa9atjafemtmej	...

🖥️ tomcatserver1

Virtual machine (classic)

🔗 Connect ▶ Start ↺ Restart ■ Stop 📄 Capture ... More

22e54e87-21de-4460-930c-8d1e9b10769f

Search (Ctrl+ /)

SETTINGS

- 📀 Disks
- 🛡️ Network security group
- 📁 IP addresses
- 📡 Endpoints
- 🌐 Load balanced sets
- 📍 Availability set
- 🔧 Extensions
- 🖥️ Size

Monitoring

CPU percentage today

100%

80%

60%

40%

20%

0%

6 PM Dec 13 6 AM 12 PM

CPU PERCENTAGE

0.07%

Edit

tomcatserver1 - Microsoft Azure - Mozilla Firefox

Chef Manage

tomcatserver1 - Micr...

🔍 Search

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Microsoft Azure

All resources > tomcatserver1 - Extensions >

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videotesting@outlook...
VIDEOTESTINGOUTLOOK (DE...

All resources
videotestingoutlook (Default Directory)

+ Add 📄 Columns ↻ Refresh

Subscriptions: Free Trial

Filter by name...

4 items

NAME ▾

🖥️ tomcatserver1 ...

⚙️ packt-tomcatserver ...

💾 classicstorage11 ...

🇸🇪 azeb87ff0ffa9atjafemtmej ...

🖥️ tomcatserver1 - Extensions
Virtual machine (classic)

🔍 Search (Ctrl+ /)

SETTINGS

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🌐 Load balanced sets

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🏭 Extensions 🔧

🖥️ Size

22e54e87-21de-4460-930c-8d1e9b10769f

Monitoring

CPU percentage today

Edit

Next Video

Docker Containers