

Westcon AWS

Virtual Machine Starter Kit

Deployment Guide



Windows Virtual Machine Bundle – CloudFormation Deployment Guide

This guide is for the deployment of the **Windows Virtual Machine Bundle** using CloudFormation.

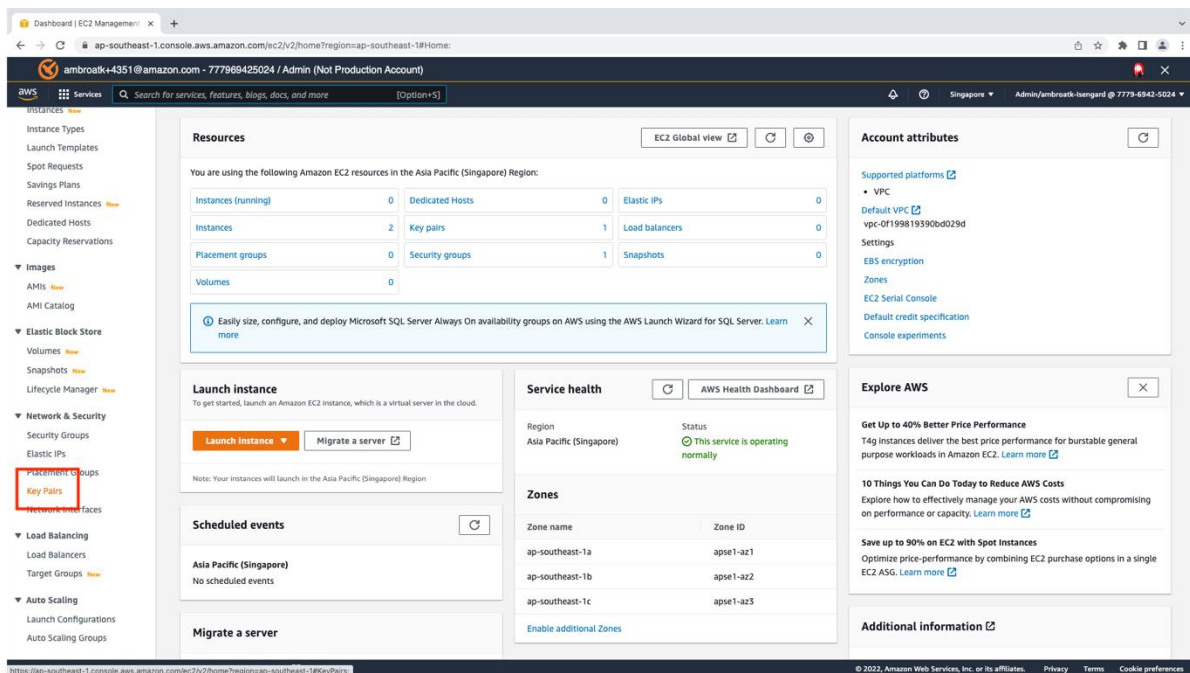
Pre-requisites

1. An existing EC2 Key Pair
2. A VPC – please identify the VPC ID from the AWS Console
3. A subnet within the VPC – please identify the Subnet ID in which you will deploy the VM

An existing EC2 Key pair is needed. If you already have an existing EC2 Key Pair, skip the “Creating EC2 Key Pair” portion and proceed to the “Deploying Template Using CloudFormation” portion.

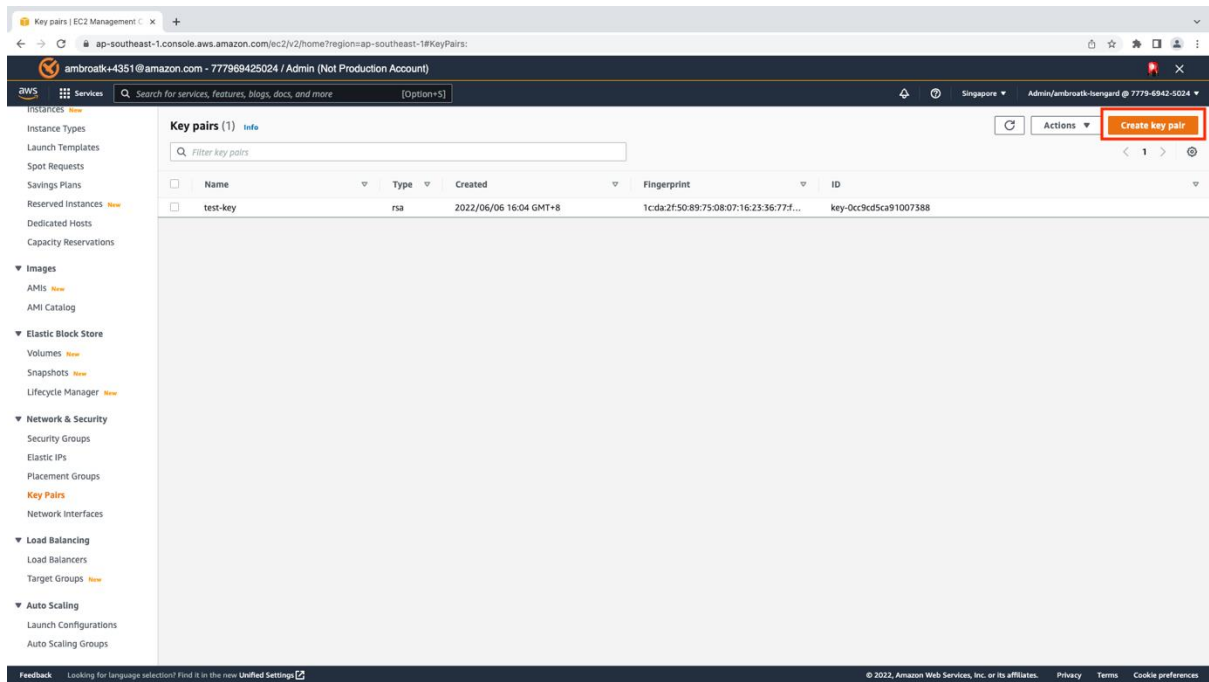
Creating an EC2 Key Pair

1. On the AWS console, navigate to the EC2 service.
2. Under Network and Security, click on “Key Pairs”.

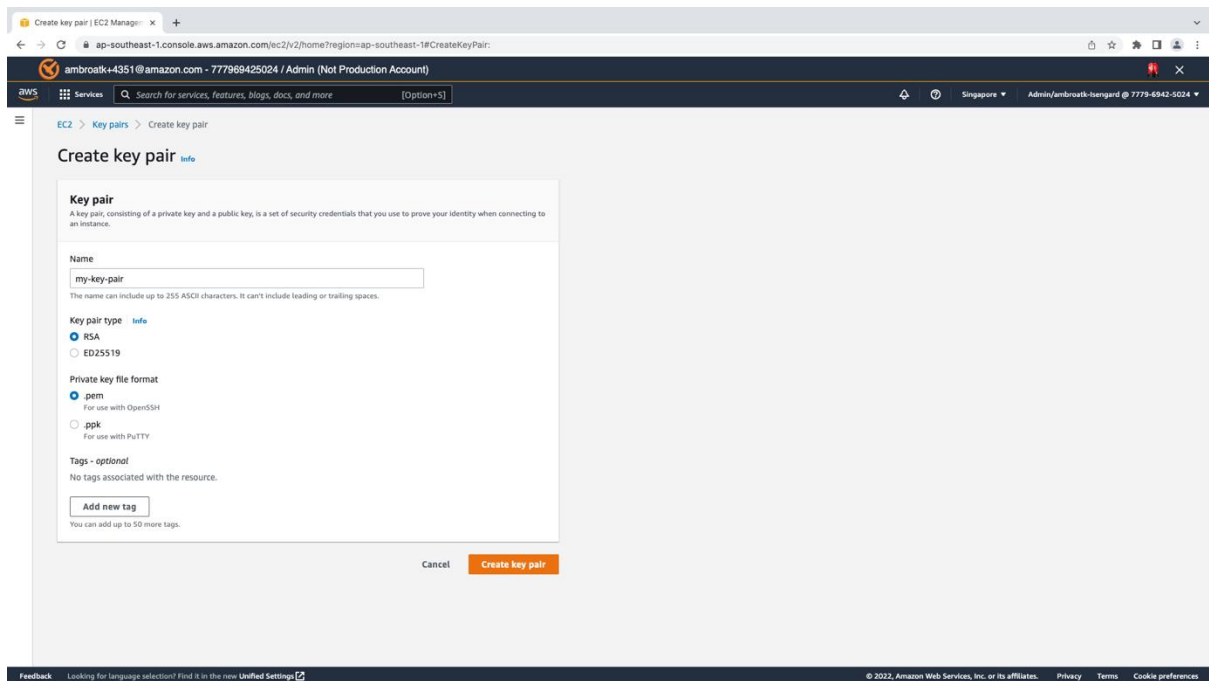


The screenshot shows the AWS Management Console for the EC2 service in the Asia Pacific (Singapore) region. The left-hand navigation pane is visible, with 'Key Pairs' highlighted under the 'Network & Security' section. The main content area displays resource counts for various EC2 services, including Instances, Key Pairs, and Security Groups. A 'Launch Instance' button is visible, and the 'Service health' section indicates that the EC2 service is operating normally.

3. Click on “Create key pair” to continue.

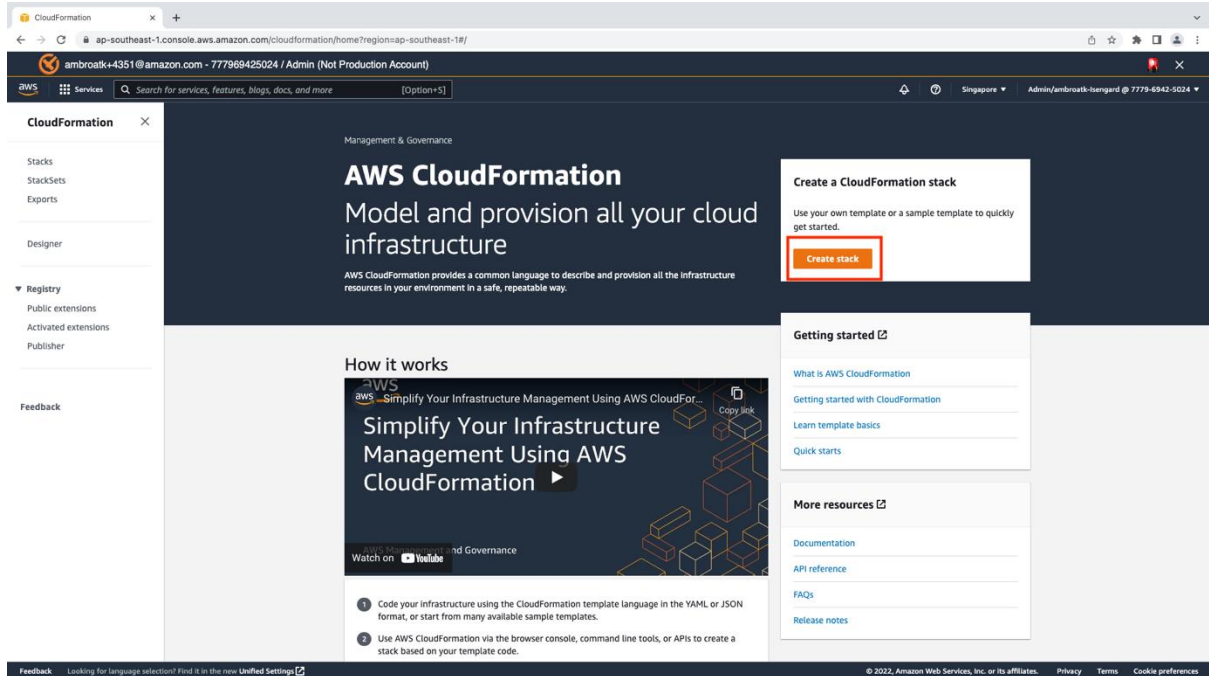


4. Enter a name for the Key Pair. Ensure that the “RSA” type and “.pem” format is selected.
5. Click on “Create key pair”.



Deploying Template Using CloudFormation

1. On the AWS console, navigate to the CloudFormation service. Click “Create stack”.



2. Select “Upload a template file”
3. Click on “Choose File”, then select the “EC2-windows.yaml” file. Click “Next”.



Create stack

Prerequisite - Prepare template

Prepare template

Every stack is based on a template. A template is a JSON or YAML file that contains configuration information about the AWS resources you want to include in the stack.

 Template is ready Use a sample template Create template in Designer

Specify template

A template is a JSON or YAML file that describes your stack's resources and properties.

Template source

Selecting a template generates an Amazon S3 URL where it will be stored.

 Amazon S3 URL Upload a template file

Upload a template file

EC2-windows.yaml

JSON or YAML formatted file

S3 URL: <https://s3-ap-southeast-2.amazonaws.com/cf-templates-1cdbs45irj0zl-ap-southeast-2/2022298Vi8-EC2-windows.yaml>

- In the next page, enter a name for the stack.
- Select the Virtual Machine size: for SMALL server use t3.medium, for a MEDIUM server use m5.large, for a LARGE server use m5.xlarge.
- Select the Network from which you want the Virtual Machine to be accessible. Use 0.0.0.0/0 for ANYWHERE
- Type a name for your server
- Key in the Subnet ID where you want to deploy this instance
- Key in the VPC ID where you want to deploy this instance

CloudFormation > Stacks > Create stack

Step 1
Specify template

Step 2
Specify stack details

Step 3
Configure stack options

Step 4
Review

Specify stack details

Stack name

Stack name

VM-Windows-Bundle

Parameters

Parameters are defined in your template and allow you to input custom values when you create or update a stack.

InstanceType

WebServer, EC2 instance type (for SMALL server use t3.medium, for a MEDIUM server use m5.large, for a LARGE server use m5.xlarge)

t3.medium

KeyName

Name of an existing EC2 KeyPair to enable SSH access to the instance

Ec2-Windows-Bundle

RDPLocation

The IP address range that can be used to RDP to the Virtual Machine

0.0.0.0/0

ServerName

Please provide a custom name

VM-Bundle-1

SubnetID

The SubnetID where the instances are going to be deployed

subnet-0da4af513a5a6eee4

myVPC

The VPC where the instances are going to be deployed

vpc-0706d17c9698ad6f6

Cancel Previous **Next**

10. Click "Next".

11. In the "Configure Stack Option" click "Next".

12. In the "Review Page" make sure that you allow the template to create custom IAM resources and then click "Submit".

► Quick-create link

Capabilities

The following resource(s) require capabilities: [AWS::CloudFormation::Stack]

This template contains Identity and Access Management (IAM) resources. Check that you want to create each of these resources and that they have the minimum required permissions. In addition, they have custom names. Check that the custom names are unique within your AWS account. [Learn more](#)

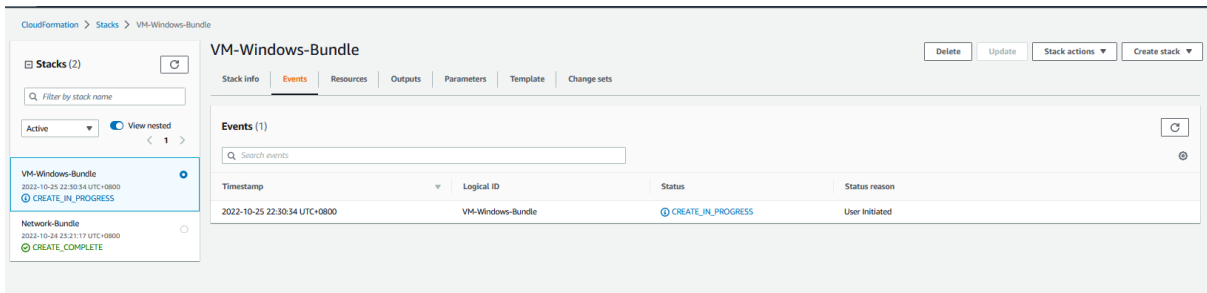
For this template, AWS CloudFormation might require an unrecognized capability: {0}. Check the capabilities of these resources. [Learn more](#)

I acknowledge that AWS CloudFormation might create IAM resources with custom names.

I acknowledge that AWS CloudFormation might require the following capability: CAPABILITY_AUTO_EXPAND

Create change set Cancel Previous **Submit**

13. You will see the template being deployed.



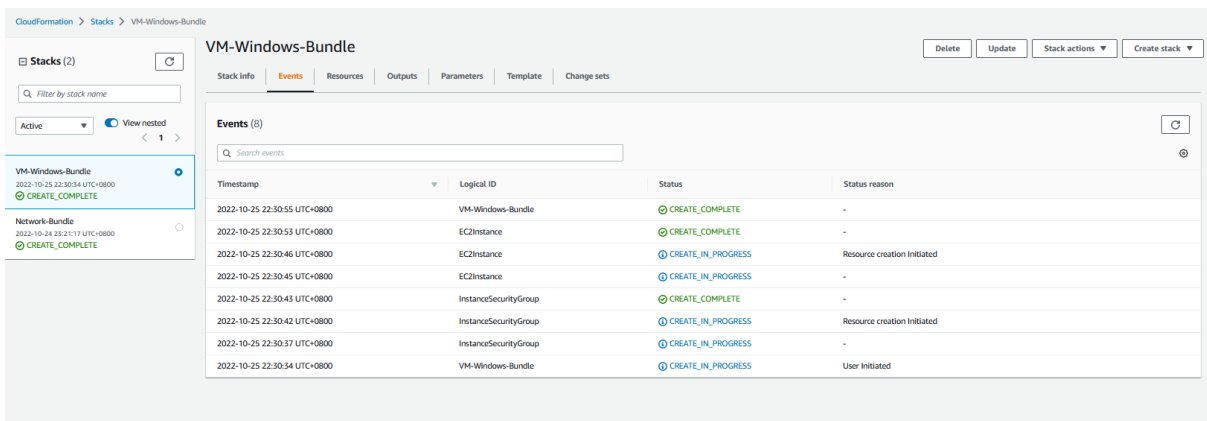
CloudFormation > Stacks > VM-Windows-Bundle

Stack info | **Events** | Resources | Outputs | Parameters | Template | Change sets

Events (1)

Timestamp	Logical ID	Status	Status reason
2022-10-25 22:30:34 UTC+0800	VM-Windows-Bundle	CREATE_IN_PROGRESS	User Initiated

14. Wait for all the resources to be created. Press the refresh button on the top right until the stack creation is complete.



CloudFormation > Stacks > VM-Windows-Bundle

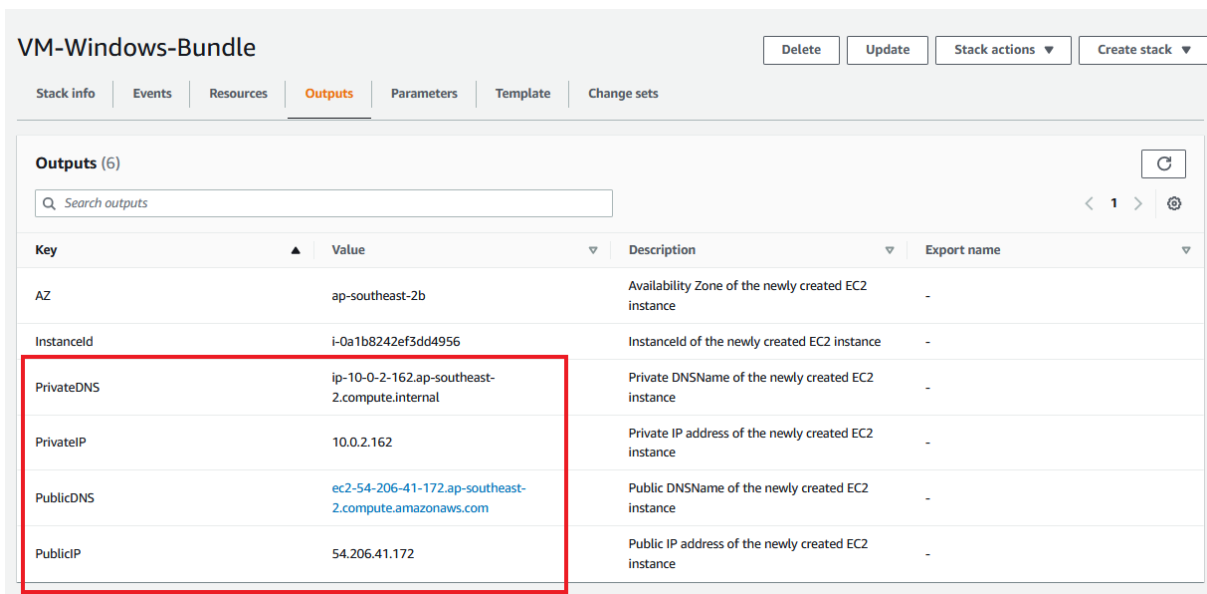
Stack info | **Events** | Resources | Outputs | Parameters | Template | Change sets

Events (8)

Timestamp	Logical ID	Status	Status reason
2022-10-25 22:30:55 UTC+0800	VM-Windows-Bundle	CREATE_COMPLETE	-
2022-10-25 22:30:53 UTC+0800	EC2Instance	CREATE_COMPLETE	-
2022-10-25 22:30:46 UTC+0800	EC2Instance	CREATE_IN_PROGRESS	Resource creation initiated
2022-10-25 22:30:45 UTC+0800	EC2Instance	CREATE_IN_PROGRESS	-
2022-10-25 22:30:43 UTC+0800	InstanceSecurityGroup	CREATE_COMPLETE	-
2022-10-25 22:30:42 UTC+0800	InstanceSecurityGroup	CREATE_IN_PROGRESS	Resource creation initiated
2022-10-25 22:30:37 UTC+0800	InstanceSecurityGroup	CREATE_IN_PROGRESS	-
2022-10-25 22:30:34 UTC+0800	VM-Windows-Bundle	CREATE_IN_PROGRESS	User Initiated

15. The created stack should look like this. All the resources have now been created and deployed.

16. Click on the "Outputs" tab to retrieve information about your server



VM-Windows-Bundle

Stack info | Events | Resources | **Outputs** | Parameters | Template | Change sets

Outputs (6)

Key	Value	Description	Export name
AZ	ap-southeast-2b	Availability Zone of the newly created EC2 instance	-
InstanceId	i-0a1b8242ef3dd4956	InstanceId of the newly created EC2 instance	-
PrivateDNS	ip-10-0-2-162.ap-southeast-2.compute.internal	Private DNSName of the newly created EC2 instance	-
PrivateIP	10.0.2.162	Private IP address of the newly created EC2 instance	-
PublicDNS	ec2-54-206-41-172.ap-southeast-2.compute.amazonaws.com	Public DNSName of the newly created EC2 instance	-
PublicIP	54.206.41.172	Public IP address of the newly created EC2 instance	-

17. Use this public IP to remote to your Virtual Machine if it is in a public subnet, or use the private subnet if you are using a Bastion host/jump server to access the Virtual Machine



Have a question?

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