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## A Guide to Self-Service Virtual Machine Deployment with AWS Student Development Platform

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**Before proceeding, please make sure you have received an account to log in to our Student Development Platform. You may request for an account by contacting Mr. Steve at [engkwalk@nus.edu.sg](mailto:engkwalk@nus.edu.sg). More details about requesting for an account can be found at the “CONTACT US” session on our website.**

This document describes the process that a user/student might follow to request self-service provisioning of an EC2 instance in the Student Development Platform on AWS Cloud.

Make sure you have the following details to sign in to the AWS Console to submit the request for a EC2 instance in the Student Development Platform.

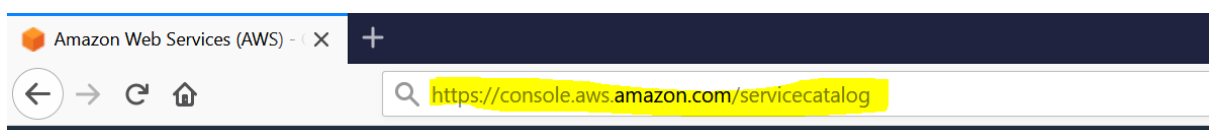
- Account ID
- IAM Username
- Password

**Note that** without these AWS console account credentials, you will not be able to login to AWS. Please contact your program manager to request for AWS console access.

Follow these steps if you already have the above credentials.

- 1) Open your Web browser
- 2) Copy and paste the below link into your browser address bar and enter.

<https://console.aws.amazon.com/servicecatalog>



- 3) Login to AWS console using your account id, username and password. **If you don't have the username and password, please read the highlighted notification at the beginning of this document.**


**Account ID or alias**

**IAM user name**


**Password**

**Sign In**

4) You can see AWS Service Catalogue like below which you can use to submit self-service ec2 instance.

Products list				
Search		Sort by		
Ex. Name		Product name		
Product name	Vendor	Owner	Description	
 EC2-CentOS7-x86_64bit	NUS IT	NUS IT	This product deploy a CetnOS 7 Linux EC2 instance with selected development platform and database.	

5) In the Products section of the console, choose EC2-CentOS7-x86\_64bit product

Search		Sort by		
Ex. Name		Product name		
Product name	Vendor	Owner	Description	
 EC2-CentOS7-x86_64bit	NUS IT	NUS IT	This product deploy a CetnOS 7 Linux EC2 instance with selected development platform and database.	

6) Choose Launch product to start the wizard for configuring your product.

Search

Ex. Name

Sort by

Product name

Product name	Vendor	Owner	Description
<div><div><div></div></div><div>EC2-CentOS7-x86_64bit</div></div>	NUS IT	NUS IT	This product deploy a CetnOS 7 Linux EC2 instance with selected development platform and database.
<div><div>View product details</div><div>Launch product</div></div>			

7) Specify a provisioned product name and then select the version that describes the provisioned product that you want to create. Please always select the latest version, in this case v1.3 and Choose Next.

Products list - Product details - Launch product

### Launch - EC2-CentOS7-x86\_64bit

**Product version**  
Parameters  
Tags  
Notifications  
Review

#### Product Version

Specify a provisioned product name and then select the version that describes the provisioned product that you want to create.

Provisioned product

A provisioned product is a collection of related resources that you provision and update as a single unit.

Name\*

Product Version

Version\*

By name <input type="text"/>			
Versions	Provided by	Created time	Description
<input checked="" type="radio"/> v1.3	NUS IT	Aug 26th 2019 12:15:36 ...	CentOS 7.6 version v1.3
<input type="radio"/> v1.1	NUS IT	Aug 25th 2019 23:30:11 ...	CentOS 7.6 version v1.1

\*Required

CANCEL NEXT

8) On the Parameters page, type the following and choose Next:

**NusNetId** – Type your NUS student ID. Please note you will this id to SSH to ec2 instance.

**VMRequesterEmailId** - Type your NUSNET ID. You will receive deployment notification to this email which will give you EC2 instance IP address.

**DeploymentPlatform** - Choose the tools you want to deploy on the EC2 instance at the time of deployment.

**InstanceType** – Choose the instance size you want to deploy.

**Password** – Type password. Please remember this password. You must use your NUSNET ID and this password to SSH to EC2 instance.

**ConfirmPassword** - Re-enter your password.

**Database** - Choose database.

**Click Next**

**Launch - EC2-CentOS7-x86\_64bit**

Product version

**Parameters**

TagOptions

Notifications

Review

Parameters

Specify values or use the default values for the parameters.

NusNetId  Please enter your NUSNET ID for example cceex

VMRequesterEmailId  The email address of the VM Requester/Owner to send deployment notifications.

DevelopmentPlatform  Choose a Technology Stack for application development platform

InstanceType  t3.xlarge

Password  Please enter password to login to EC2 via SSH. You have use your NUSNET ID and this password to ssh to vm.

ConfirmPassword  Please confirm password

DataBase  MySQL

CANCEL PREVIOUS NEXT

9) If you want to set any tag to your EC2 instance, then type your tag here. If you are not sure about what the tag is for, just Click Next.

**Launch - EC2-CentOS7-x86\_64bit**

Product version

Parameters

**TagOptions**

Notifications

Review

TagOptions

The following TagOptions are added by the administrator to either Product or Portfolio. Some TagOptions may have multiple values and you are required to select the most applicable value. [Learn more.](#)

Key (127 characters maximum)	Value (255 characters maximum)	
<input type="text" value="New Key"/>	<input type="text" value="New Value"/>	+

CANCEL PREVIOUS NEXT

10) Click Next

**Launch - EC2-CentOS7-x86\_64bit**

Product version

Parameters

TagOptions

**Notifications**

Review

Notifications

☐ Enable provisioned product event notifications to be streamed to an Amazon SNS topic.

CANCEL PREVIOUS NEXT

11) On the Review page, review the information that you typed, and then choose **Launch** to launch the stack. The console displays the stack details page for the stack. The initial status of the product is **Launching**. It takes several minutes for AWS Service Catalogue to launch the product. To see the current status, refresh your browser. After the product is launched, the status is **Available**.

Product version  
Parameters  
TagOptions  
Notifications  
**Review**

## Review

Product version
EDIT

Name: sdptest001  
Product: EC2-CentOS7-x86\_64bit  
Product version: v1.3  
Description: CentOS 7.6 version v1.3  
Provider: NUS IT  
Launch as: Self

Parameters
EDIT

NusNetId: cceml  
VMRequesterEmailId: mohan.lakshmanan@nus.edu.sg  
DevelopmentPlatform: CentOS,Angular,Node.js  
InstanceType: t3.xlarge  
Password: ----  
ConfirmPassword: ----  
DataBase: MySQL

Tags
EDIT


No tags provided

Notifications
EDIT

No SNS topics provided


Resource changes
CREATE PLAN

CANCEL PREVIOUS LAUNCH



Status: Available  
Product: EC2-CentOS7-x86\_64bit  
Version: v1.3  
Provided by: NUS IT

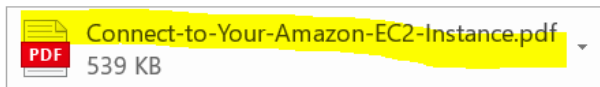
▼ Events (1)



Aug 27th 2019	Status	Type	Event message						
12:20:45 UTC+0800	Succeeded	PROVISION_PRODUCT	Record ID: rec-rdaifqz4eSpau Provisioned product ID: pp-tskjtsm5kqvpe ▼ Outputs: <table> <thead> <tr> <th>Key</th> <th>Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>CloudformationStackARN</td> <td>arn:aws:cloudformation:ap-southeast-1:786429537467:stack/SC-786429537467-pp-tskjtsm5kqvpe/8a68ef60-c881-11e9-9559-0af5ec31f136</td> <td>The ARN of the launched Cloudformation Stack</td> </tr> </tbody> </table>	Key	Value	Description	CloudformationStackARN	arn:aws:cloudformation:ap-southeast-1:786429537467:stack/SC-786429537467-pp-tskjtsm5kqvpe/8a68ef60-c881-11e9-9559-0af5ec31f136	The ARN of the launched Cloudformation Stack
Key	Value	Description							
CloudformationStackARN	arn:aws:cloudformation:ap-southeast-1:786429537467:stack/SC-786429537467-pp-tskjtsm5kqvpe/8a68ef60-c881-11e9-9559-0af5ec31f136	The ARN of the launched Cloudformation Stack							

By this time, you should receive email notification to your NUSNET e-mail with deployment status and EC2 instance IP address.

You can open the attached guide that describes the process/steps to SSH to your EC2 instance.



Your AWS EC2 self-service server deployment request has been successfully completed. Please use your NUSNET ID and password you typed at the deployment to ssh to EC2 instance. Also find the attached guide to login to your EC2 instance via SSH.

CentOS Linux	
Deployment Summary	
Instance ID	
Private IPs	
Account ID or alias	
User Account	