

# Create a new VM with CUDA and MS Visual Redistributable support

## Create a new VM with CUDA drivers

The screenshot shows the AWS Management Console with the EC2 service selected. The main area displays various options for launching a virtual machine, with the first option, "Launch a virtual machine With EC2 2-3 minutes", highlighted by a red box. Below it, other options include "Connect an IoT device", "Start migrating to AWS", "Start a development project", and "Deploy a serverless microservice". To the right, there are sections for "Explore AWS" featuring Amazon SageMaker Autopilot, Amazon S3 Glacier, RDS Read Replicas, and Move to Managed File Storage. A sidebar on the left lists recently visited services like EC2, Billing, and IAM.

**Step 1: Choose an Amazon Machine Image (AMI)**

The user has selected the "Amazon RDS" AMI from the list. The "Select" button is highlighted with a red box. Other options shown include SUSE Linux Enterprise Server 15 Service Pack 2 (HVM), Ubuntu Server 20.04 LTS (HVM), Microsoft Windows Server 2019 Base, Microsoft Windows Server 2019 Base with Containers, Microsoft Windows Server 2019 with SQL Server 2017 Standard, and Microsoft Windows Server 2019 with SQL Server 2019 Standard.

**Step 2: Choose an Instance Type**

Compute optimized	c4.xlarge	4	7.5	EBS only	Yes	High	Yes
Compute optimized	c4.2xlarge	8	15	EBS only	Yes	High	Yes
Compute optimized	c4.4xlarge	16	30	EBS only	Yes	High	Yes
Compute optimized	c4.8xlarge	36	60	EBS only	Yes	10 Gigabit	Yes
GPU instances	g3s.xlarge	4	30.5	EBS only	Yes	Up to 10 Gigabit	Yes
GPU instances	g3.4xlarge	16	122	EBS only	Yes	Up to 10 Gigabit	Yes
GPU instances	g3.8xlarge	32	244	EBS only	Yes	10 Gigabit	Yes
GPU instances	g3.16xlarge	64	488	EBS only	Yes	25 Gigabit	Yes
1 GPU instances	g4dn.xlarge	4	16	1 x 125 (SSD)	Yes	Up to 25 Gigabit	Yes
GPU instances	g4dn.2xlarge	8	32	1 x 225 (SSD)	Yes	Up to 25 Gigabit	Yes
GPU instances	g4dn.4xlarge	16	64	1 x 225 (SSD)	Yes	Up to 25 Gigabit	Yes
GPU instances	g4dn.8xlarge	32	128	1 x 900 (SSD)	Yes	50 Gigabit	Yes
GPU instances	g4dn.12xlarge	48	192	1 x 900 (SSD)	Yes	50 Gigabit	Yes
GPU instances	g4dn.16xlarge	64	256	1 x 900 (SSD)	Yes	50 Gigabit	Yes
GPU instances	g4dn.metal	96	384	2 x 900 (SSD)	Yes	100 Gigabit	Yes
GPU instances	p2.xlarge	4	61	EBS only	Yes	High	Yes
GPU instances	p2.8xlarge	32	488	EBS only	Yes	10 Gigabit	Yes
GPU instances	p2.16xlarge	64	732	EBS only	Yes	25 Gigabit	Yes

**Review and Launch**

**Step 7: Review Instance Launch**

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**AMI Details**

**Instance Type**

**Security Groups**

**Tags**

**Launch**

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**AMI Details**

**Instance Type**

**Security Groups**

**Tags**

**Select an existing key pair or create a new key pair**

- Choose an existing key pair
- Select a key pair
- I acknowledge that I have access to the selected private key file (nicolas.pem), and that without this file, I won't be able to log into my instance.
- Launch Instances

Your instances are now launching  
The following instance launches have been initiated: i-06136f27940f6b6b3  
View launch log

Get notified of estimated charges  
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances  
Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.  
Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. **Find out** how to connect to your instances.

Here are some helpful resources to get you started

- How to connect to your Windows instance
  - Amazon EC2 User Guide
  - Amazon EC2 Microsoft Windows Guide
  - Amazon EC2 Discussion Forum

While your instances are launching you can also

- Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)
- Create and attach additional EBS volumes (Additional charges may apply)
- Manage security groups

[View Instances](#)

Feedback English (US) ▾  
Highlight All Match Case Match Diacritics Whole Words 1 of 7 matches

now the VM is ready.

## Connect a VM

find your VM from,

New EC2 Experience Tell us what you think

EC2 Dashboard Events Tags Limits Instances Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances Dedicated Hosts Capacity Reservations Images AMIs Elastic Block Store Volumes Snapshots Lifecycle Manager Network & Security Security Groups New Elastic IPs New Placement Groups New Key Pairs New Network Interfaces

Instances (3) Info Filter instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm Status	Availability zone	Public IPv4 DNS	Public IPv4 IP	Elastic IP
-	i-06136f27940f6b6b3	Running	g4dn.xlarge	Initializing	No alarms +	us-east-2c	ec2-52-14-14-242.us... 52.14.14.242	-	-
Tuesday	i-0d9890517fb43a1b2	Stopped	g4dn.4xlarge	-	No alarms +	us-east-2c	-	-	-
Friday	i-0ef21df179a6a716	Stopped	g4dn.xlarge	-	No alarms +	us-east-2c	-	-	-

Select an instance above

Actions ▾ Launch instances ▾

Feedback English (US) ▾  
Highlight All Match Case Match Diacritics Whole Words 1 of 7 matches

Instance summary for i-06136f27940f6b6b3

Updated less than a minute ago

Instance ID	Public IPv4 address	Private IPv4 addresses
i-06136f27940f6b6b3	52.14.14.242   open address	172.31.4.16
Instance state	Public IPv4 DNS	Private IPv4 DNS
Running	ec2-52-14-14-242.us-east-2.compute.amazonaws.com   open address	ip-172-31-44-16.us-east-2.compute.internal
Instance type	Elastic IP addresses	VPC ID
g4dn.xlarge	-	vpc-babc0fd2
IAM Role	Subnet ID	
-	subnet-2f446962	

AWS Compute Optimizer  
Opt-in to AWS Compute Optimizer for recommendations. [Learn more](#)

Details Security Networking Storage Monitoring Tags

Instance details Info

Platform: Windows AMI ID: ami-0ca69a9d06da3835d Monitoring: disabled

Platform details: Windows AMI name: Windows\_Server-2019-English-Full-Base-2020.09.09 Termination protection: Disabled

Launch time: AMI location: Lifecycle

Feedback English (US) ▾

Highlight All Match Case Match Diacritics Whole Words 1 of 7 matches

first we get the password

Connect to instance Info

Connect to your instance i-06136f27940f6b6b3 using any of these options

Session Manager RDP client 1

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

Download remote desktop file

When prompted, connect to your instance using the following details:

Public DNS: ec2-52-14-14-242.us-east-2.compute.amazonaws.com User name: Administrator

Password: Get password 2

If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.

Cancel

Get Windows password Info

Retrieve and decrypt the initial Windows administrator password for this instance.

To decrypt the password, you will need your key pair for this instance.

Key pair associated with this instance nicolas 1

Browse to your key pair:

Browse 1

Or copy and paste the contents of the key pair below:

Decrypt Password 4

File Upload

This PC > Downloads

New folder

Organize

Name Date modified Type Size

Yesterday (3)

Earlier this week (1) 2

nicolas.pem 2020-10-13 9:42 AM PEM File 2 KB

Last month (6)

Downloads

Earlier this year (1)

nicolas.pem 2020-10-13 9:42 AM PEM File 2 KB

File game: nicolas.pem Open Cancel

3

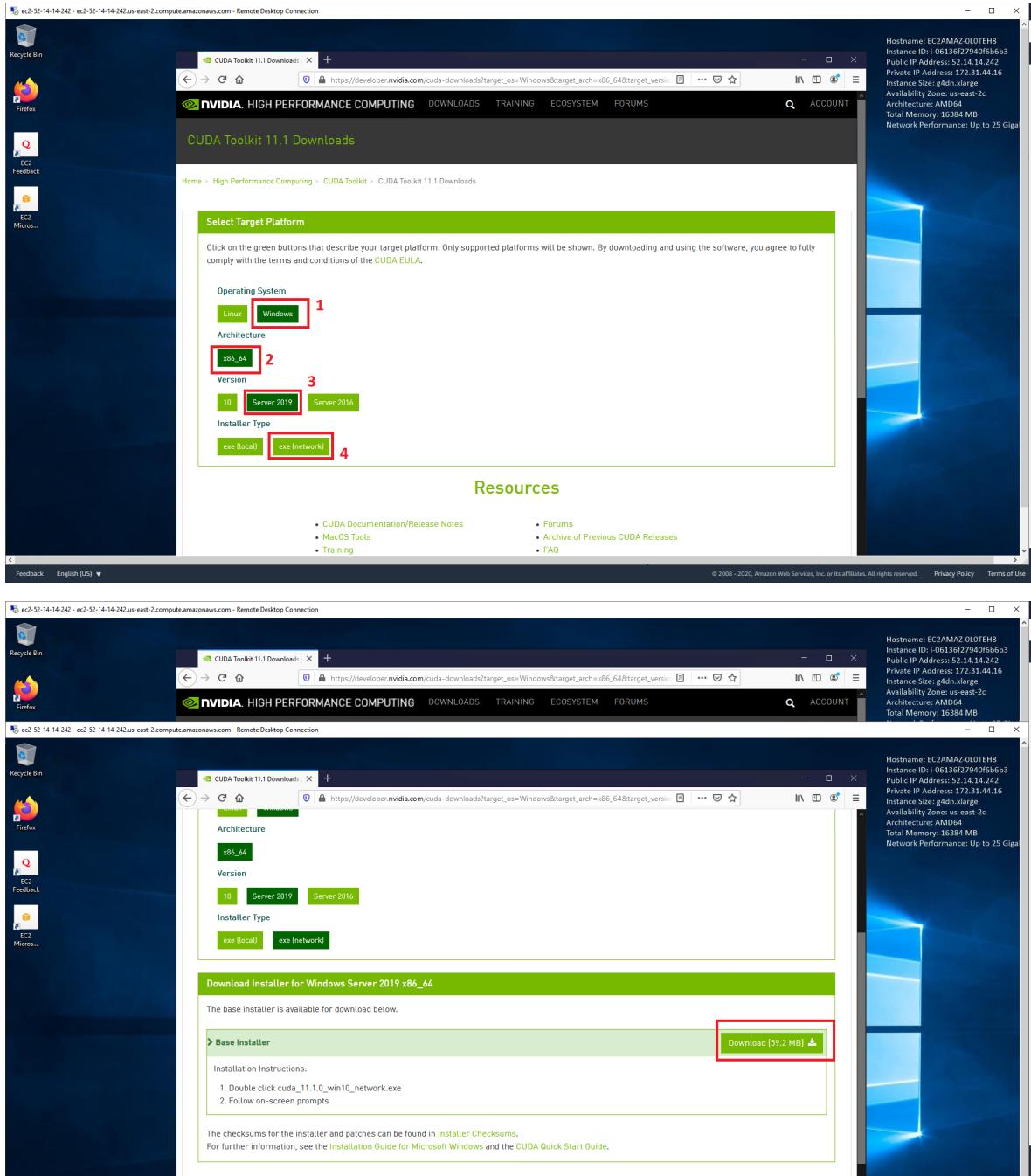
The screenshot shows the AWS EC2 Connect to instance page. It displays connection details for an instance with Public DNS: ec2-52-14-14-242.us-east-2.compute.amazonaws.com and User name: Administrator. A password field contains the value: Odn4lyG7qE69vm\*?lW6c2B'98dJWZbE. A red box highlights this password field. Below the password field is a note: "If you've joined your instance to a directory, you can use your directory credentials to connect to your instance." At the bottom right of the dialog box is a "Cancel" button.

now with the password we will connect using the rdp software,

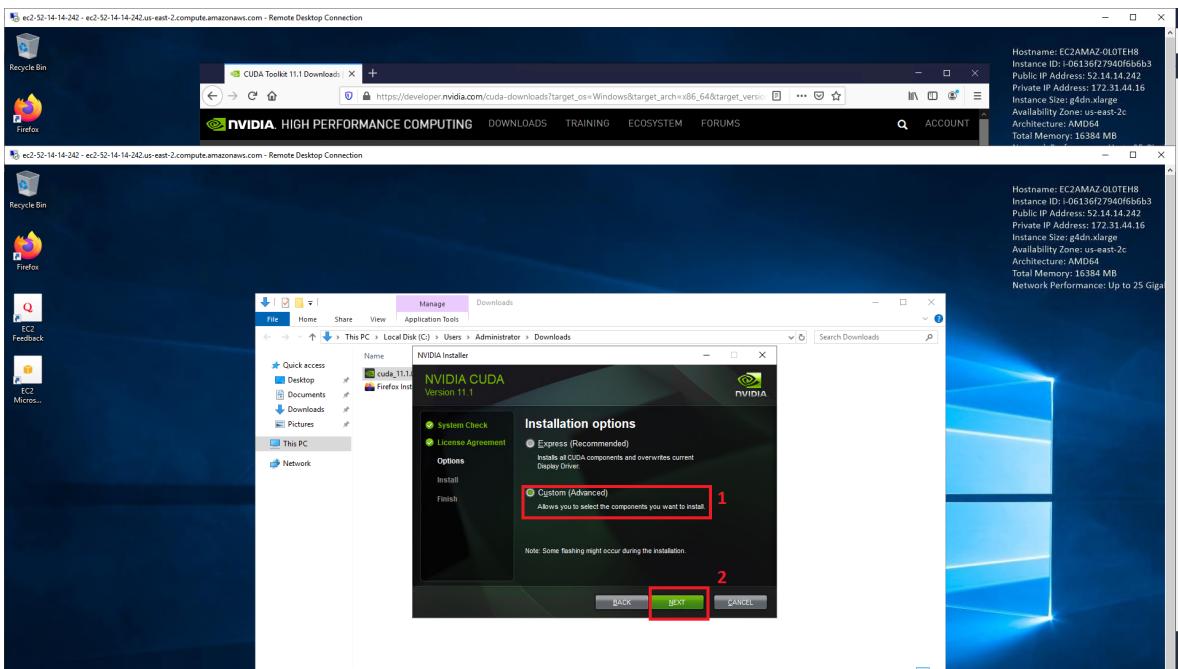
This screenshot is identical to the one above, showing the AWS EC2 Connect to instance page with the same connection details and highlighted password field. It also includes the note about directory credentials and a "Cancel" button at the bottom right.

The screenshot shows a Windows File Explorer window titled "Downloads". The toolbar includes "File", "Home", "Share", "View", "Clipboard", "Organize", "New", "Open", "Select", and "Search Downloads". The main area lists files under "Today (2)". One file is selected: "ec2-52-14-14-242.us-east-2.compute.am...". A red box highlights this selected file. The status bar at the bottom shows "224 items 1 item selected 105 bytes".

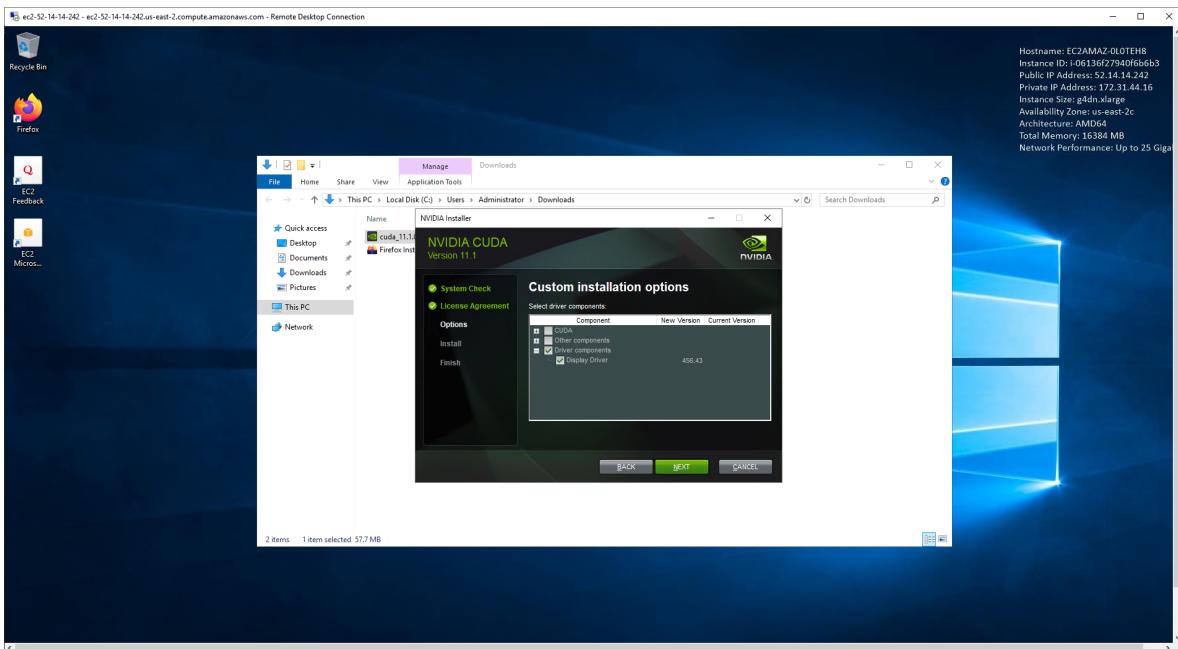
# Install CUDA sdk



when your download is ready, start the installer. Go trough until you got the installation option select custom,



deselect everything excepted the driver component,



process to the installation by clicking next.

## Install Microsoft Visual C++ Redistributable

ec2-52-14-14-242 - ec2-52-14-14-242.us-east-2.compute.amazonaws.com - Remote Desktop Connection

Administrator: Command Prompt

https://support.microsoft.com/en-us/help/2977003/the-latest-supported-visual-c-downloads

Some of the downloads that are mentioned in this article are currently available on MyVisualStudio.com. Make sure to log in by using a Visual Studio Subscription account so that you can access the download links.

If you are asked for credentials, use your existing Visual Studio subscription account or create a free account by selecting "Create a new Microsoft account."

**Summary**

This article lists the download links for the latest versions of Microsoft Visual C++.

You have chosen to open:

**Visual Studio 2019**

Download the following update(s) for Visual C++ 2019. The redistributable files for Visual C++ 2015, 2017 and 2019 share the same redistributable files.

Would you like to save this file?

Save File Cancel

7 and 2019. The redistributable files for Visual Studio 2015, 2017 and 2019 share the same redistributable files.

Note Visual C++ 2015, 2017 and 2019 all share the same redistributable files.

For example, installing the Visual C++ 2019 redistributable will affect programs built with Visual C++ 2015 and 2017 also. However, installing the Visual C++ 2015 redistributable will not replace the newer versions of the files installed by the Visual C++ 2017 and 2019 redistributables.

This is different from all previous Visual C++ versions, as they each had their own distinct runtime files, not shared with other versions.

**Visual Studio 2013 (VC++ 12.0)**

Private IP Address: 172.31.44.16  
Instance Size: g4dn.xlarge  
Availability Zone: us-east-2c  
Architecture: AMD64  
Total Memory: 16384 MB  
Network Performance: Up to 25 Giga

12:29 PM 10/16/2020

ec2-52-14-14-242 - ec2-52-14-14-242.us-east-2.compute.amazonaws.com - Remote Desktop Connection

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**Summary**

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**Microsoft Visual C++ 2015-2019 Redistributable (x64) - 14.27.29112**

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MICROSOFT VISUAL C++ 2019 RUNTIME

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I agree to the license terms and conditions

Install Close

x64: vc\_redist.x64.exe

x86: vc\_redist.x86.exe

ARM64: vc\_redist.arm64.exe

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