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Amazon EC2

Amazon Elastic Compute Cloud (Amazon EC2) provides scalable computing capacity in the Amazon Web Services (AWS) cloud. Using Amazon EC2 eliminates your need to invest in hardware up front, so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage. Amazon EC2 enables you to scale up or down to handle changes in requirements or spikes in popularity, reducing your need to forecast traffic.

Features of Amazon EC2

Amazon EC2 provides the following features:

- Virtual computing environments, known as *instances*
- Preconfigured templates for your instances, known as *Amazon Machine Images (AMIs)*, that package the bits you need for your server (including the operating system and additional software)
- Various configurations of CPU, memory, storage, and networking capacity for your instances, known as *instance types*
- Secure login information for your instances using *key pairs* (AWS stores the public key, and you store the private key in a secure place)
- Storage volumes for temporary data that's deleted when you stop or terminate your instance, known as *instance store volumes*
- Persistent storage volumes for your data using Amazon Elastic Block Store (Amazon EBS), known as *Amazon EBS volumes*
- Multiple physical locations for your resources, such as instances and Amazon EBS volumes, known as *regions* and *Availability Zones*
- A firewall that enables you to specify the protocols, ports, and source IP ranges that can reach your instances using *security groups*
- Static IPv4 addresses for dynamic cloud computing, known as *Elastic IP addresses*
- Metadata, known as *tags*, that you can create and assign to your Amazon EC2 resources
- Virtual networks you can create that are logically isolated from the rest of the AWS cloud, and that you can optionally connect to your own network, known as *virtual private clouds* (VPCs)

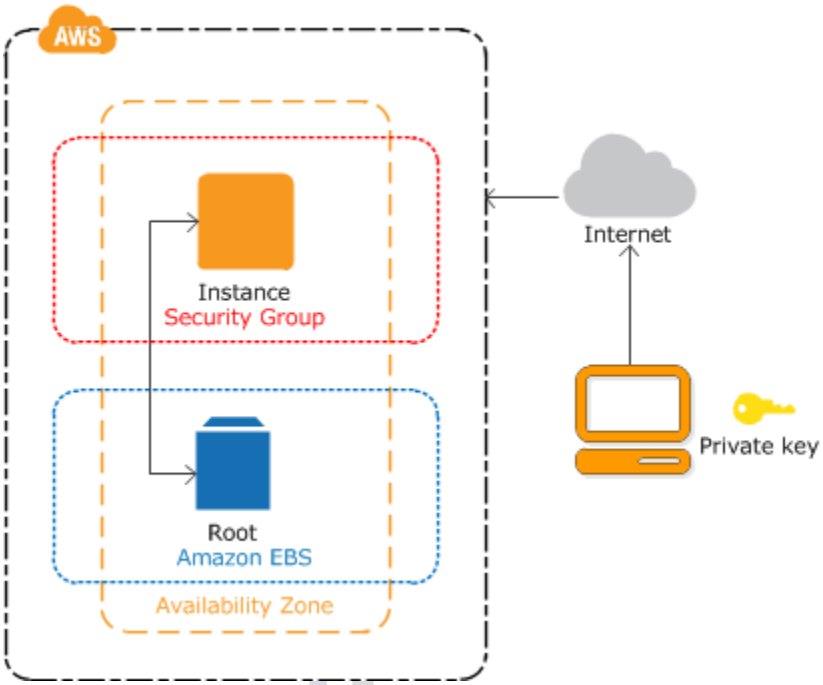
Getting Started with Amazon EC2 Windows Instances

Let's get started with Amazon Elastic Compute Cloud (Amazon EC2) by launching, connecting to, and using a Windows instance. An *instance* is a virtual server in the AWS cloud. With Amazon EC2, you can set up and configure the operating system and applications that run on your instance.

Overview

The instance is an Amazon EBS-backed instance (meaning that the root volume is an EBS volume). You can either specify the Availability Zone in which your instance runs, or let

Amazon EC2 select an Availability Zone for you. When you launch your instance, you secure it by specifying a key pair and security group. When you connect to your instance, you must specify the private key of the key pair that you specified when launching your instance.



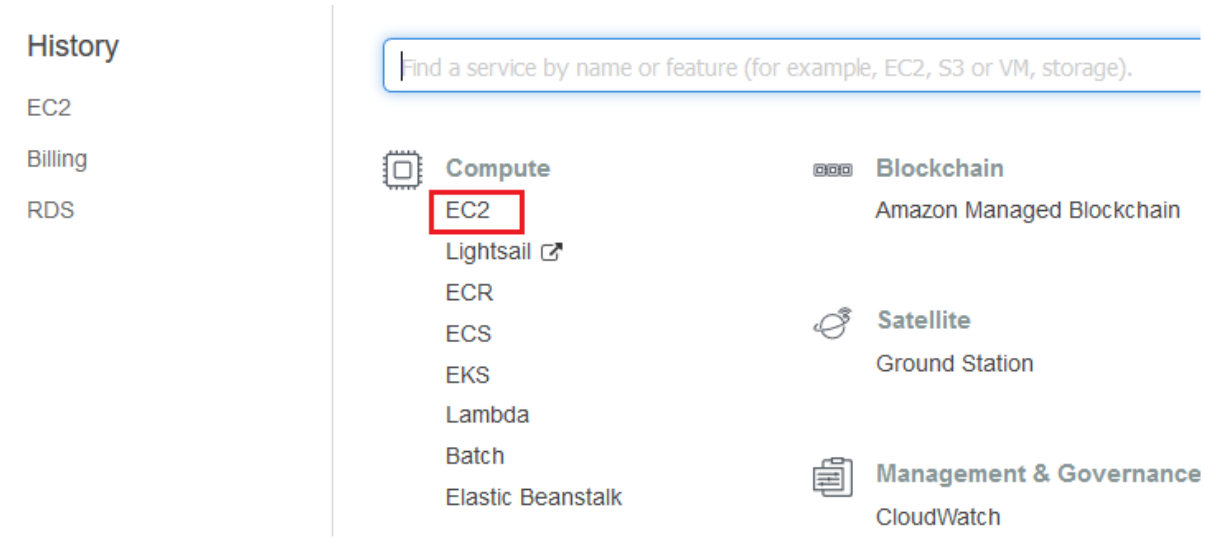
Tasks

To complete this tutorial, perform the following tasks:

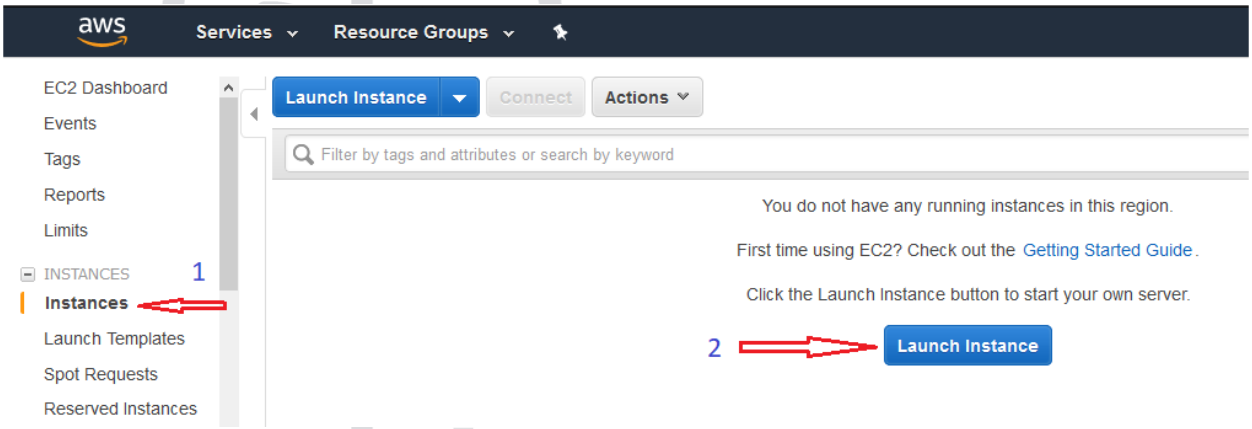
1. Launch an Instance
2. Connect to Your Instance
3. Clean Up Your Instance

To launch an instance

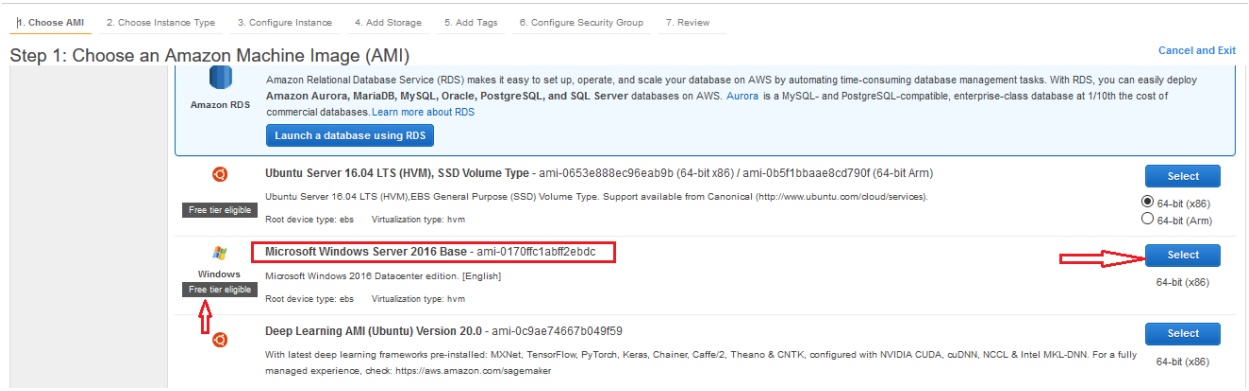
1. Open the Amazon EC2 console at https://console.aws.amazon.com/ec2/.



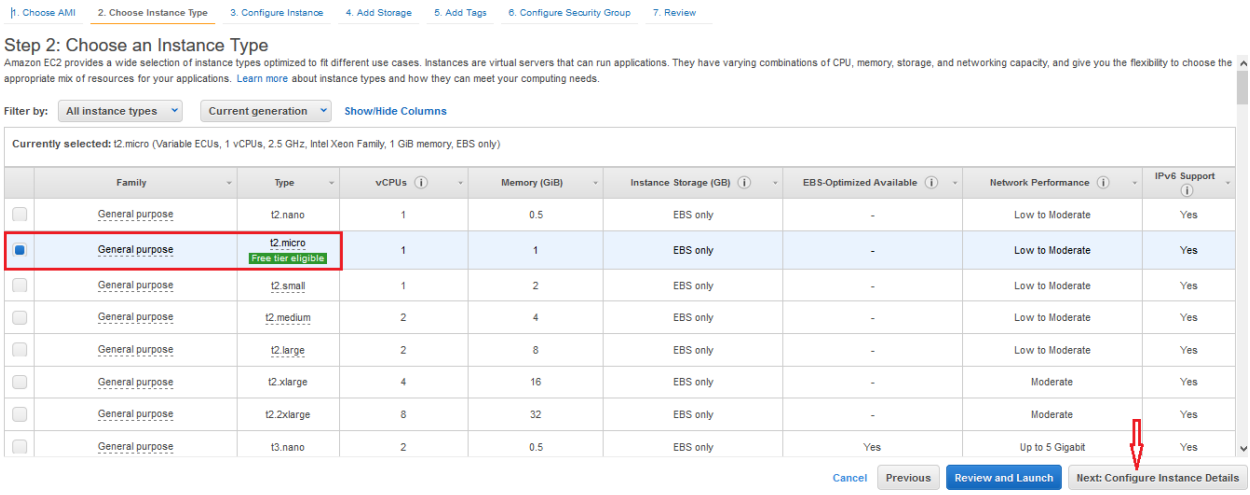
2. From the console dashboard, choose **Launch Instance**.



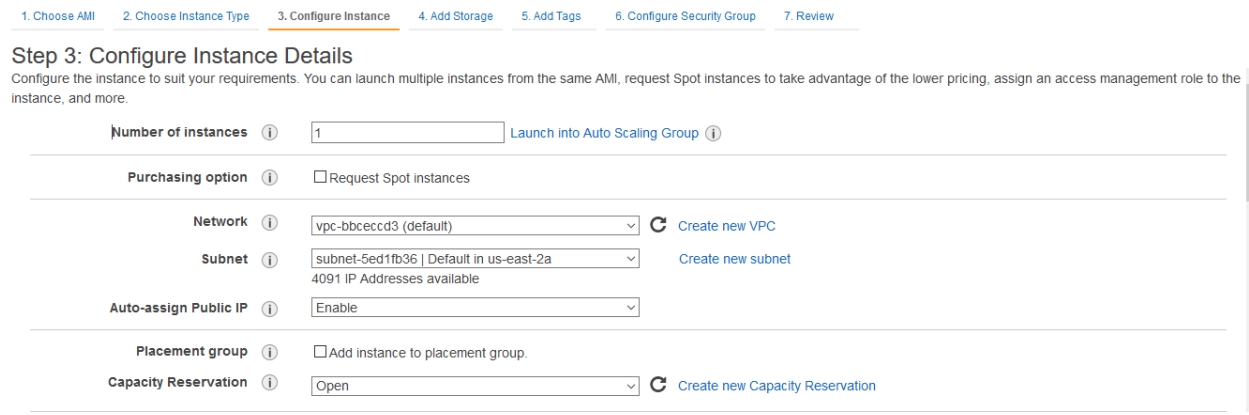
3. The **Choose an Amazon Machine Image (AMI)** page displays a list of basic configurations, called *Amazon Machine Images (AMIs)*, that serve as templates for your instance. Select the AMI for Windows Server 2016 Base or later. Notice that these AMIs are marked "Free tier eligible."

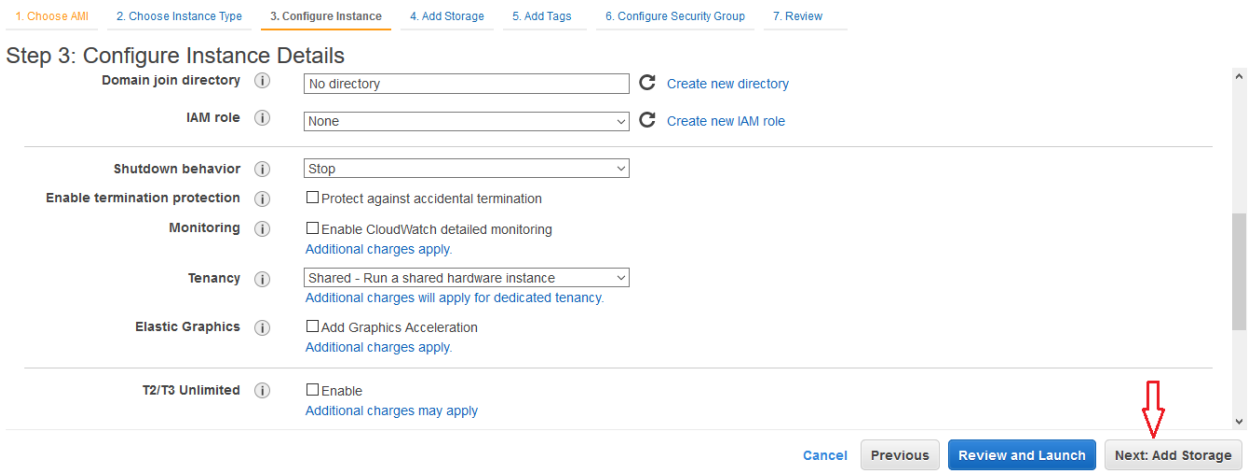


4. On the **Choose an Instance Type** page, you can select the hardware configuration of your instance. Select the `t2.micro` type, which is selected by default. Notice that this instance type is eligible for the free tier.

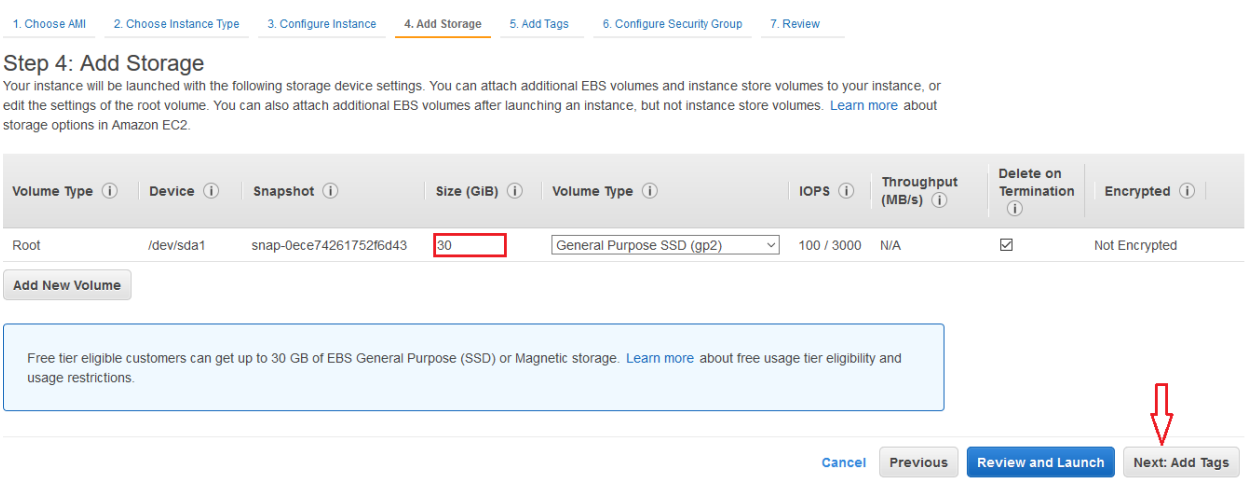


5. In configure Instance Details

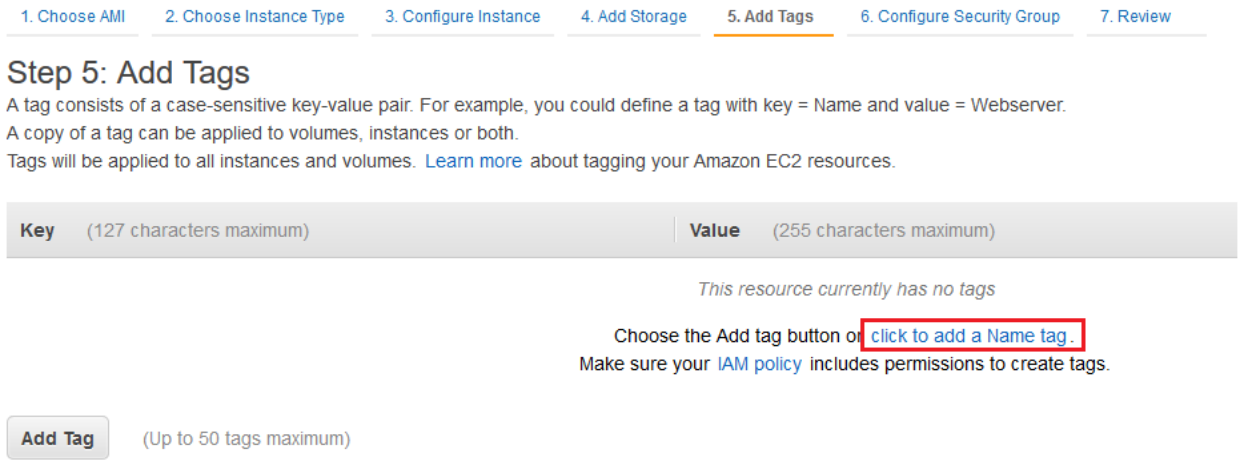


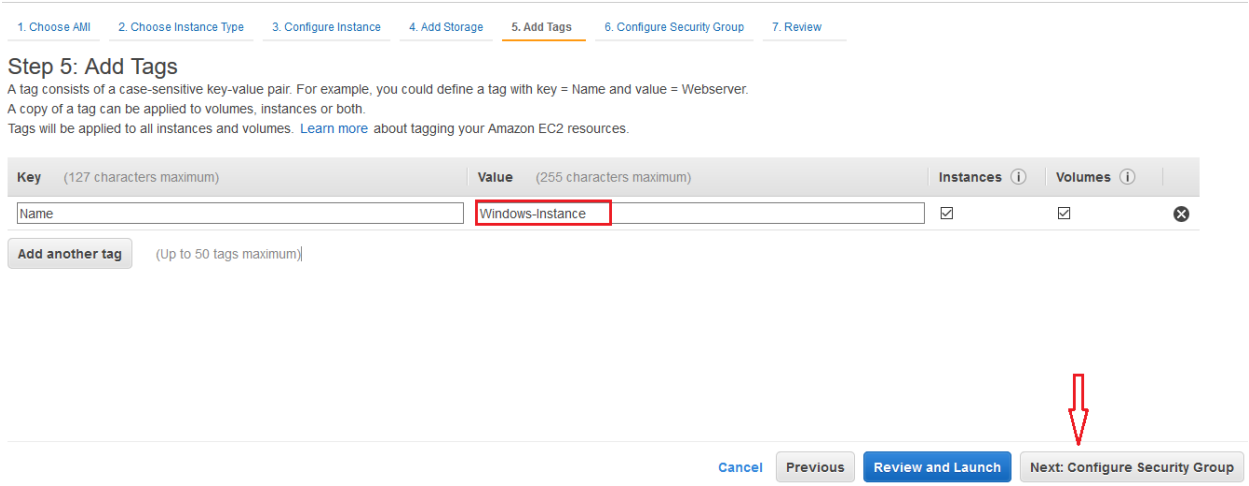


6. In Add Storage

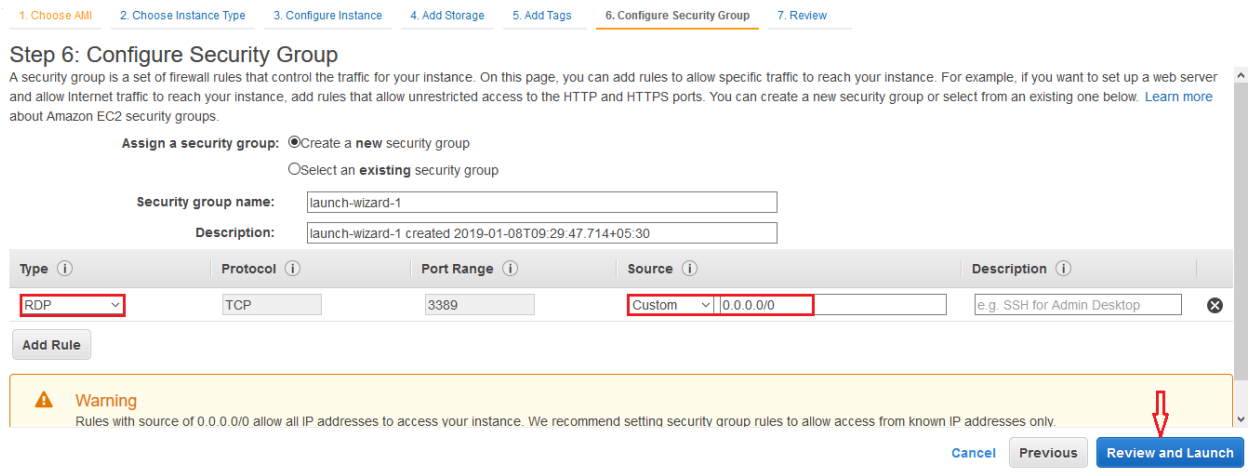


7. In Add Tags, Specify the name for Instance

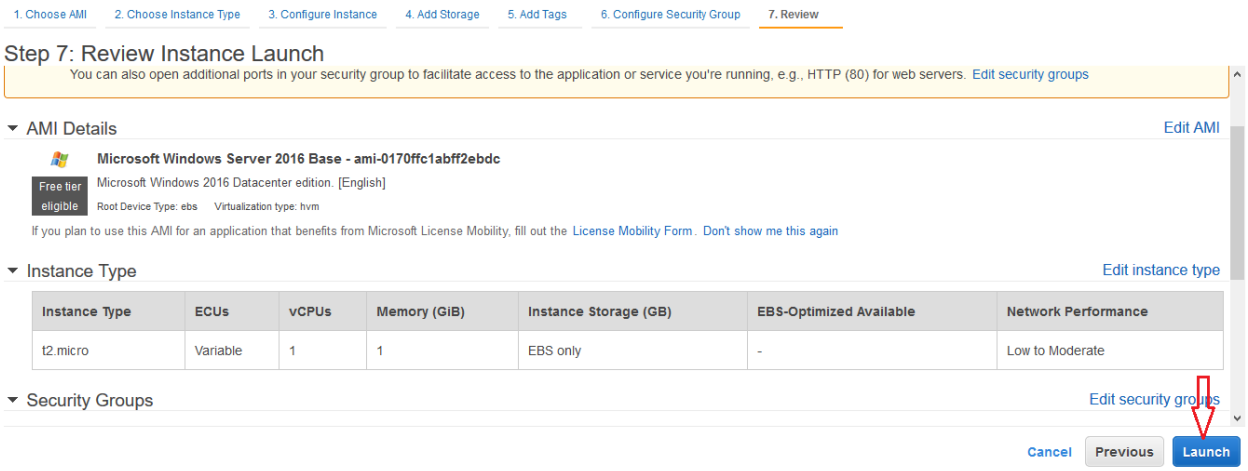




8. Under **Security Groups**, you'll see that the wizard created and selected a security group for you. You can use this security group, or alternatively you can select the security group that you created when getting set up using the following steps:
    1. On the **Configure Security Group** page, ensure that **Select an existing security group/Create a new security group**.
    2. For windows Instance Give Type as RDP
    3. Select **Review and Launch**.



9. Choose **Review and Launch** to let the wizard complete the other configuration settings for you.
10. On the **Review Instance Launch** page, choose **Launch**.



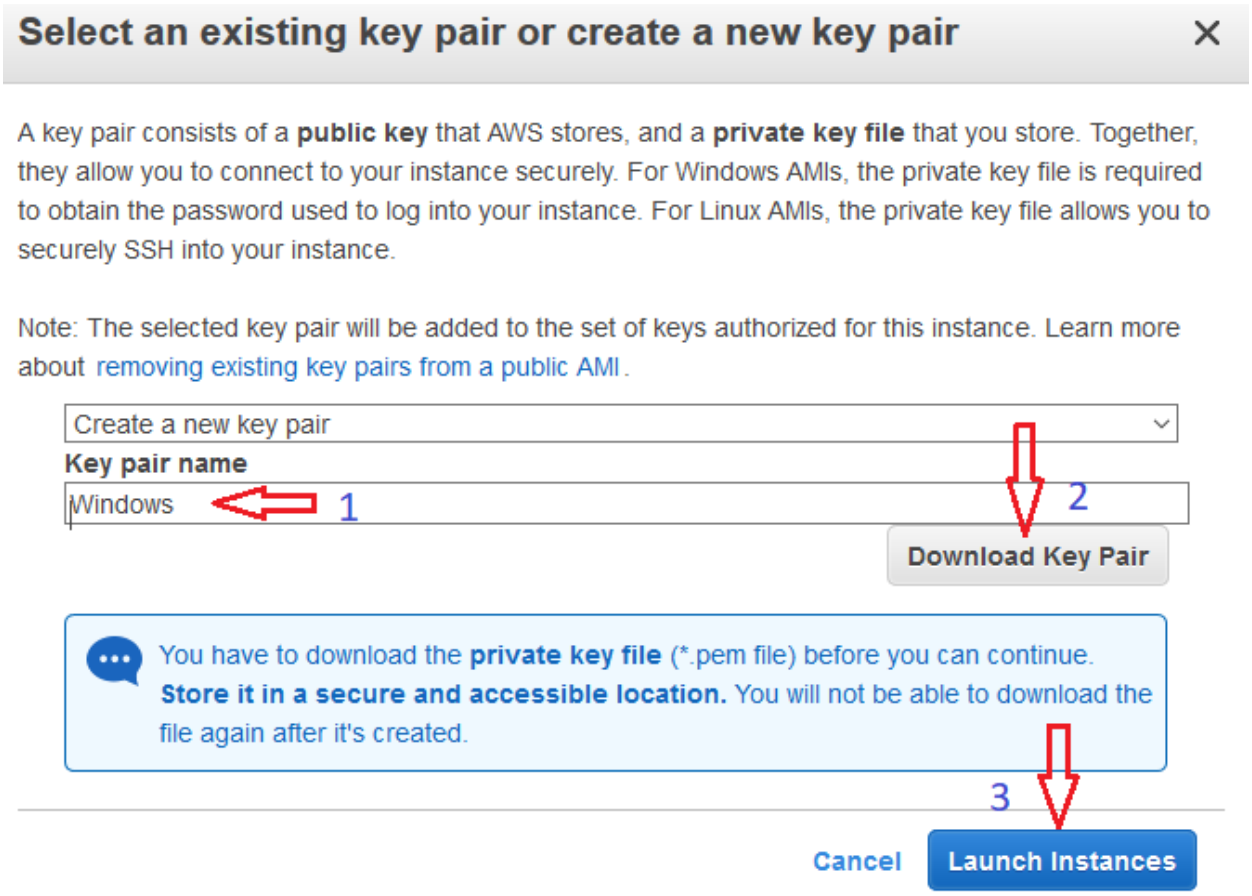
11. When prompted for a key pair, select **Choose an existing key pair**, then select the key pair that you created when getting set up.

    Alternatively, you can create a new key pair. Select **Create a new key pair**, enter a name for the key pair, and then choose **Download Key Pair**. This is the only chance for you to save the private key file, so be sure to download it. Save the private key file in a safe place. You'll need to provide the name of your key pair when you launch an instance and the corresponding private key each time you connect to the instance.

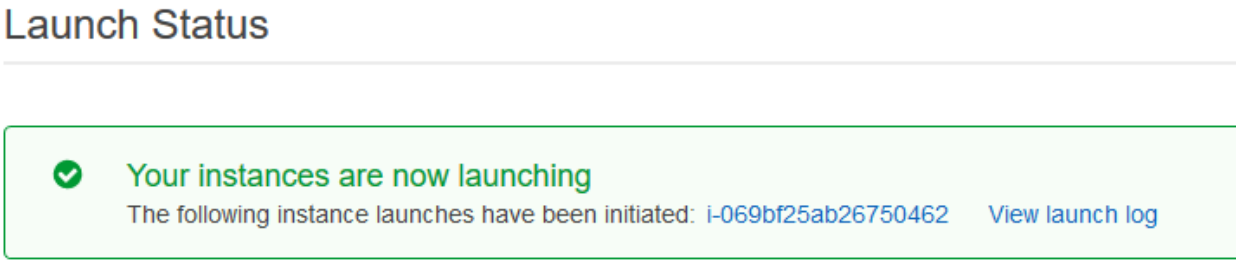
    Warning

    Don't select the **Proceed without a key pair** option. If you launch your instance without a key pair, then you can't connect to it.

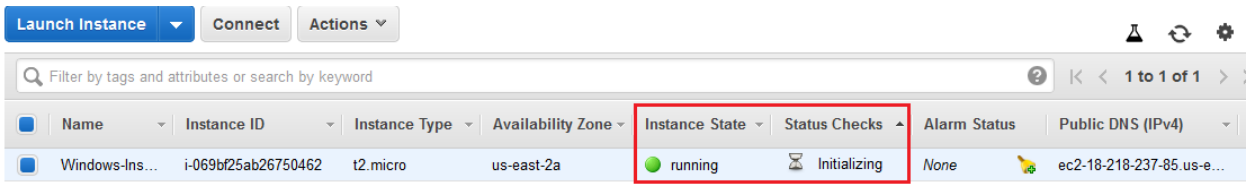
    When you are ready, select the acknowledgement check box, and then choose **Launch Instances**.



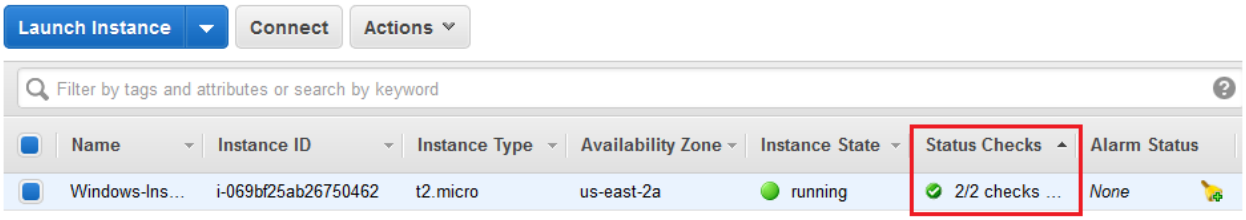
12. A confirmation page lets you know that your instance is launching. Choose **View Instances** to close the confirmation page and return to the console.



13. On the **Instances** screen, you can view the status of the launch. It takes a short time for an instance to launch. When you launch an instance, its initial state is `pending`. After the instance starts, its state changes to `running` and it receives a public DNS name. (If the **Public DNS (IPv4)** column is hidden, choose **Show/Hide Columns** (the gear-shaped icon) in the top right corner of the page and then select **Public DNS (IPv4)**.)



14. It can take a few minutes for the instance to be ready so that you can connect to it. Check that your instance has passed its status checks; you can view this information in the **Status Checks** column

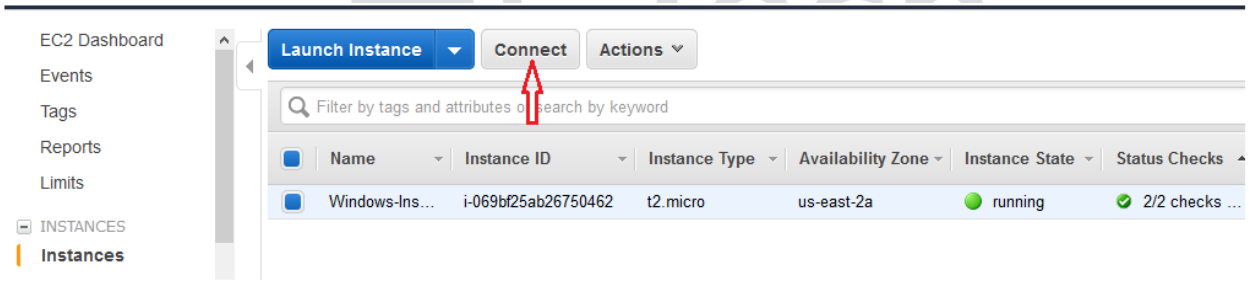


Connect to Your Instance

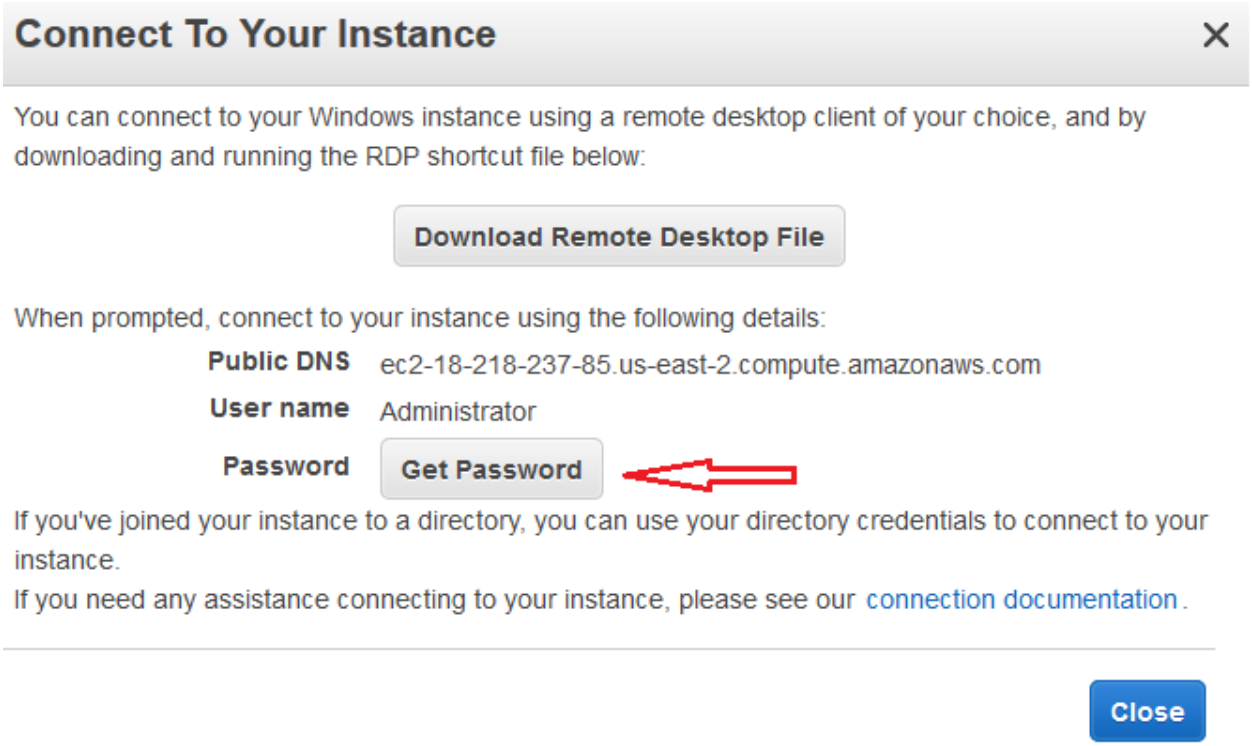
To connect to a Windows instance, you must retrieve the initial administrator password and then specify this password when you connect to your instance using Remote Desktop.

To connect to your Windows instance using an RDP client

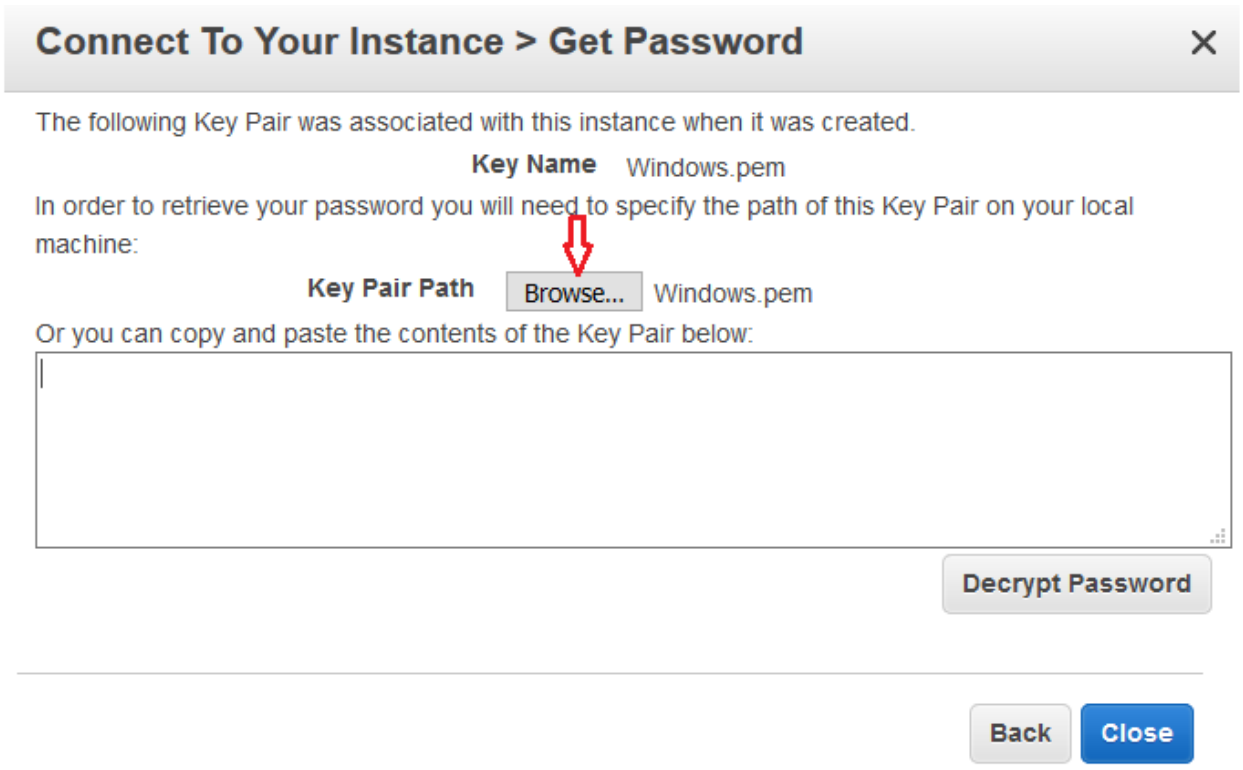
1. In the Amazon EC2 console, select the instance, and then choose **Connect**.



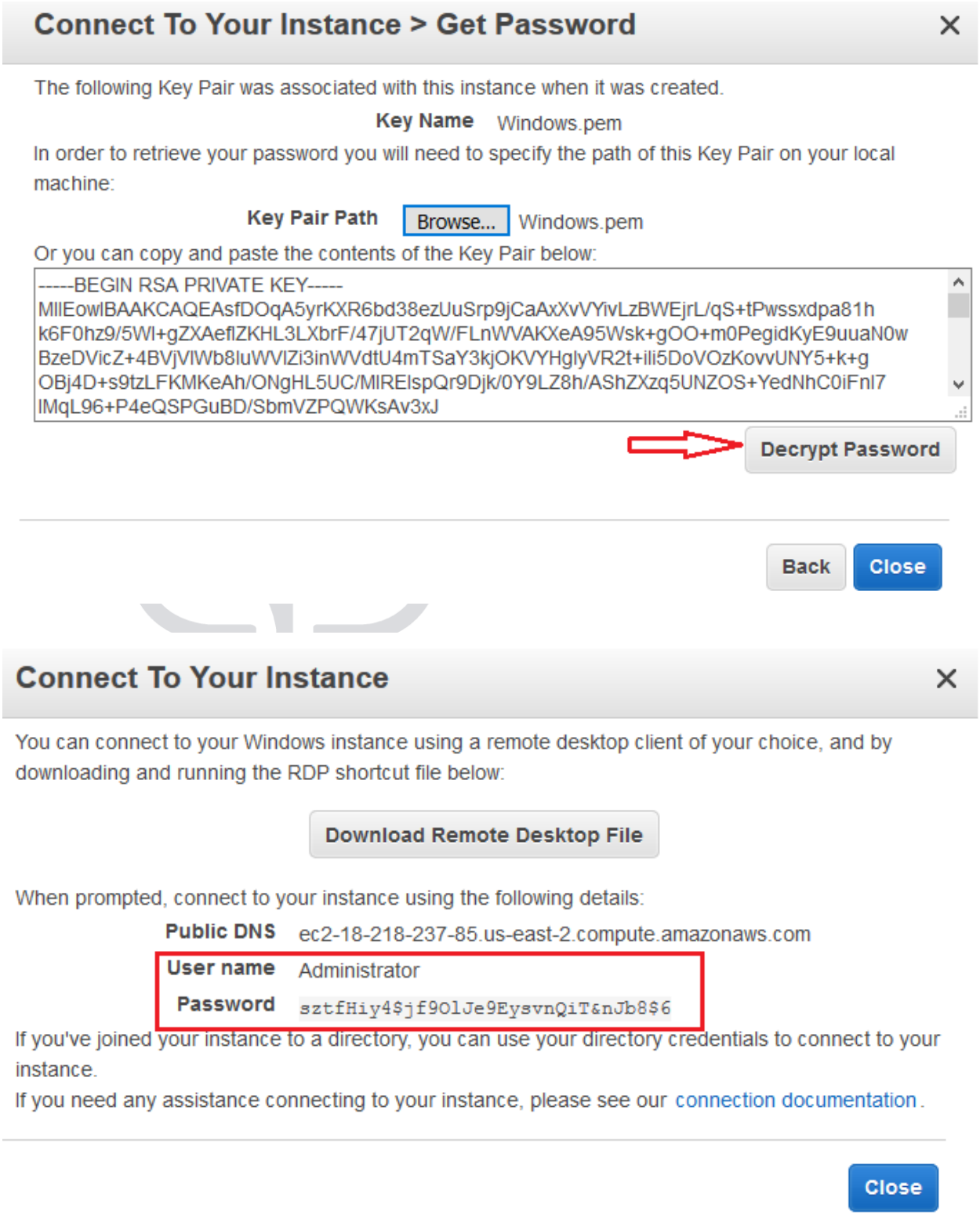
2. In the **Connect To Your Instance** dialog box, choose **Get Password** (it will take a few minutes after the instance is launched before the password is available).



3. Choose **Browse** and navigate to the private key file you created when you launched the instance. Select the file and choose **Open** to copy the entire contents of the file into the **Contents** field.

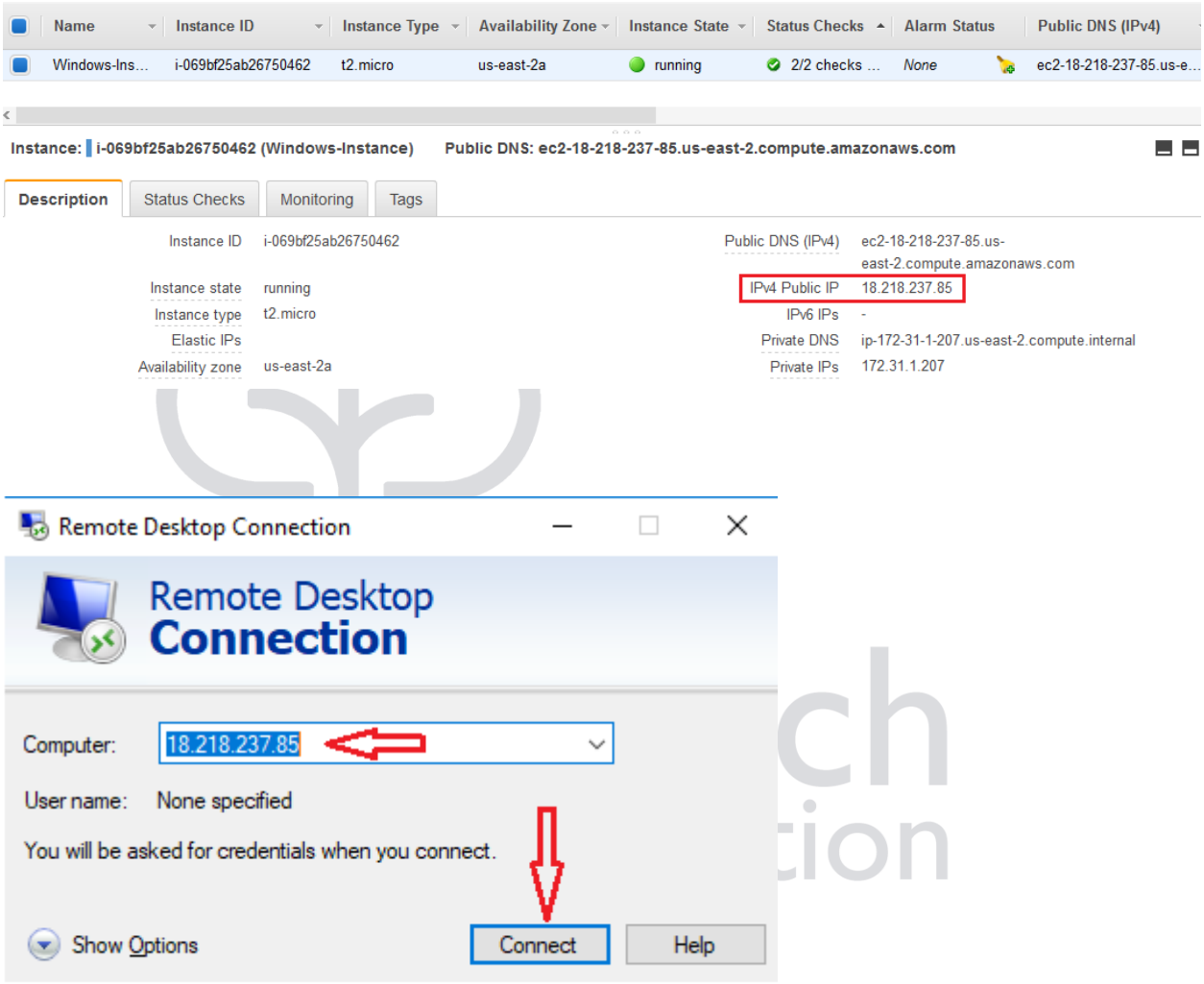


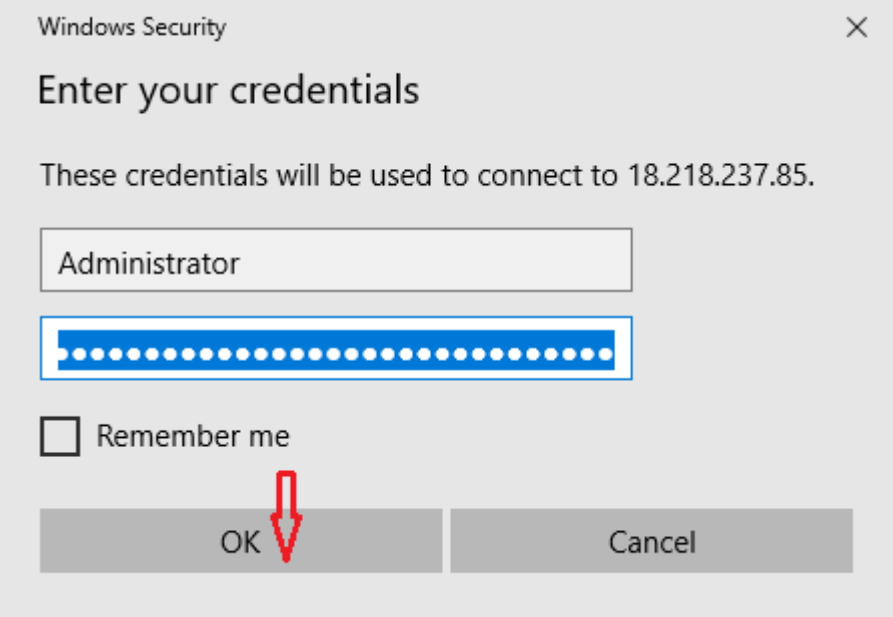
4. Choose **Decrypt Password**. The console displays the default administrator password for the instance in the **Connect To Your Instance** dialog box, replacing the link to **Get Password** shown previously with the actual password.



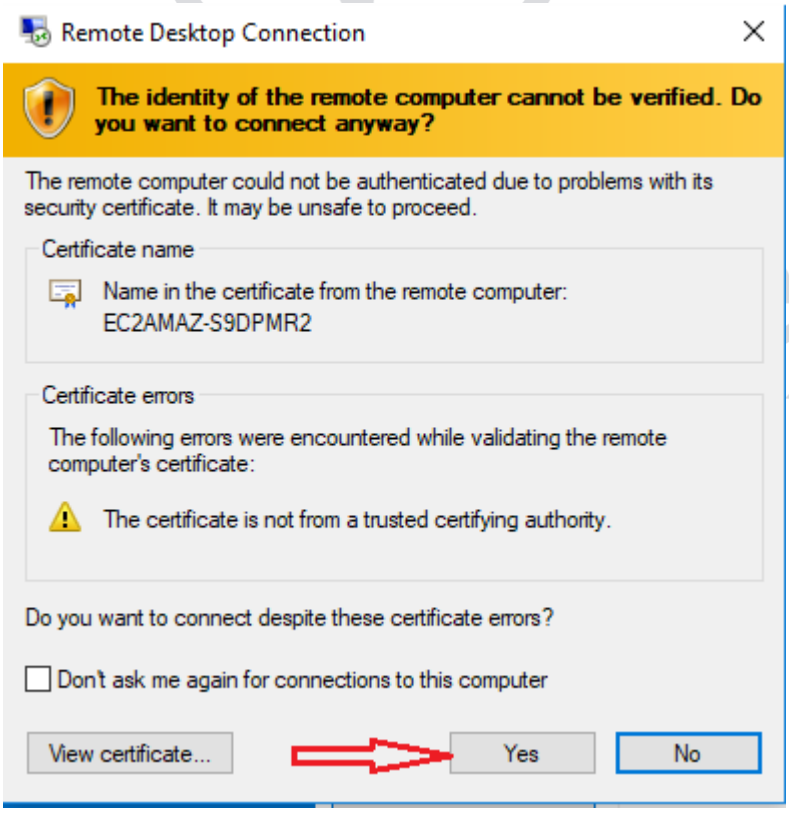
5. Record the default administrator password, or copy it to the clipboard. You need this password to connect to the instance.

6. Choose **Download Remote Desktop File**. Your browser prompts you to either open or save the .rdp file. Either option is fine. When you have finished, you can choose **Close** to dismiss the **Connect To Your Instance** dialog box.
    - If you opened the .rdp file, you'll see the **Remote Desktop Connection** dialog box.
    - If you saved the .rdp file, navigate to your downloads directory, and open the .rdp file to display the dialog box.





7. You may get a warning that the publisher of the remote connection is unknown. You can continue to connect to your instance.



8. When prompted, log in to the instance, using the administrator account for the operating system and the password that you recorded or copied previously. If your **Remote Desktop Connection** already has an administrator account set up, you might have to choose the **Use another account** option and type the user name and password manually.

   Note

   Sometimes copying and pasting content can corrupt data. If you encounter a "Password Failed" error when you log in, try typing in the password manually.

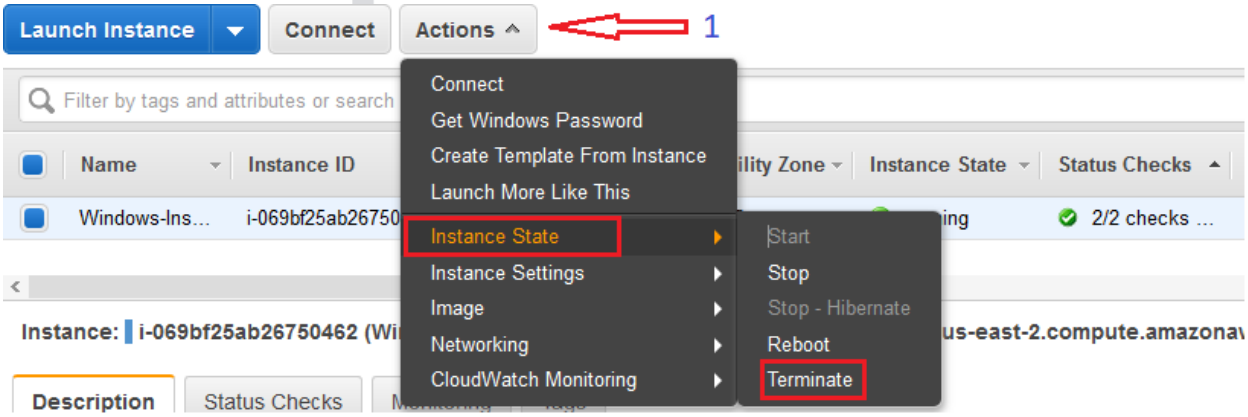
1. If you receive an error while attempting to connect to your instance, see Remote Desktop can't connect to the remote computer.

Clean Up Your Instance

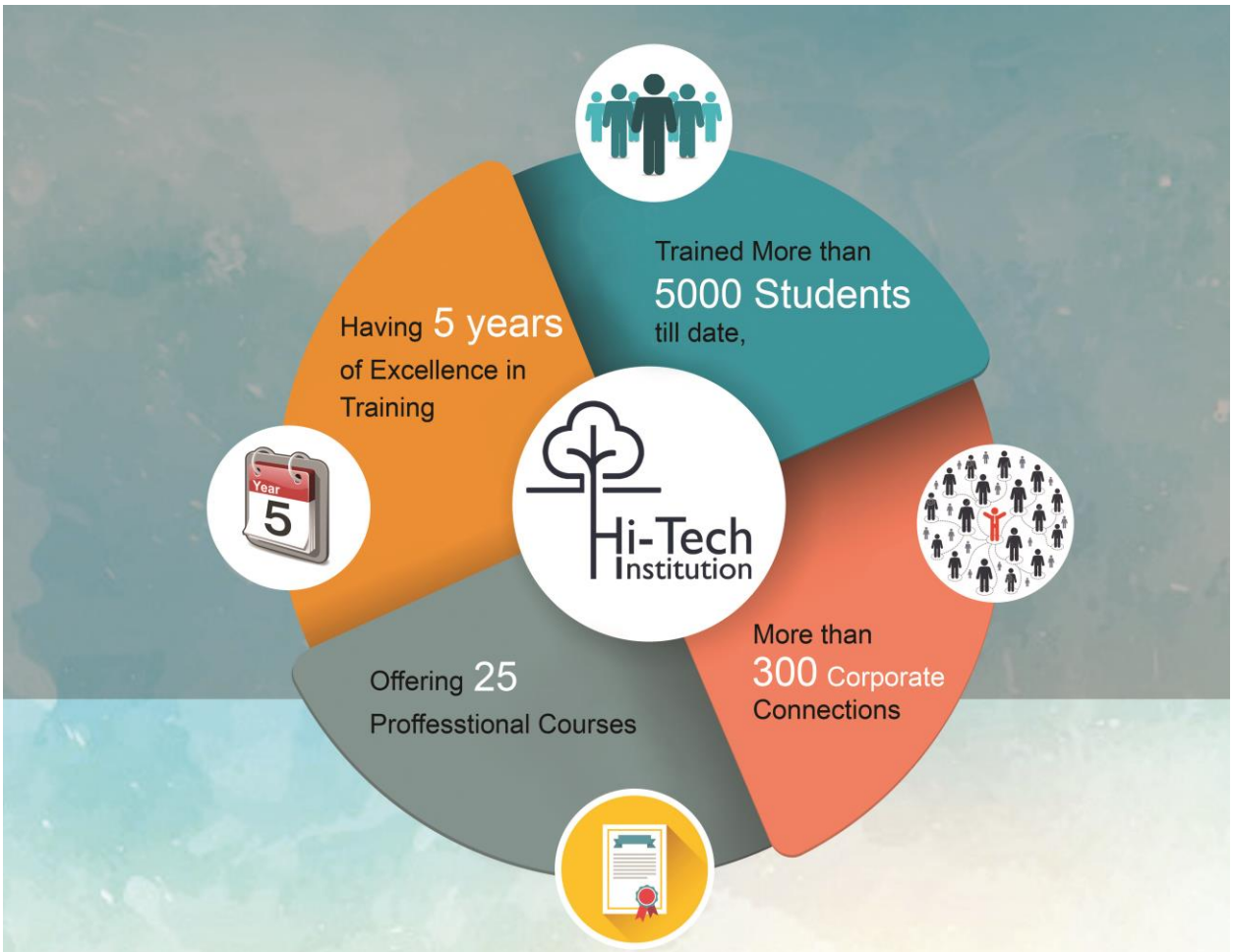
Terminating an instance effectively deletes it; you can't reconnect to an instance after you've terminated it.

To terminate your instance

1. In the navigation pane, choose **Instances**. In the list of instances, select the instance.
2. Choose **Actions**, **Instance State**, **Terminate**.
3. Choose **Yes, Terminate** when prompted for confirmation.



Amazon EC2 shuts down and terminates your instance. After your instance is terminated, it remains visible on the console for a short while, and then the entry is deleted.



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