

1. Verify the NACL and Security Group Configuration

1.1. Verify RDP Traffic Is Allowed Out to the Internet

First, we'll verify our VPC, internet gateway, route table, and Network Access Control List are configured correctly to allow RDP traffic out to the internet.

1. In the AWS Management Console, navigate to VPC.
2. Click **Your VPCs** in the left-hand menu, and we'll use the Default VPC (Create it in the Paris region if it is not already created in your environment).
3. Click **Subnets** in the left-hand menu, and we'll see there are two subnets listed.
4. Click **Internet Gateways** in the left-hand menu, and we'll see one is listed and attached to the VPC.
5. Click **Route Tables** in the left-hand menu, and select the route table that's associated with two subnets.
6. Click the *Routes* tab at the bottom, and we'll see the internet gateway is attached to the route.
7. Click **Network ACLs** in the left-hand menu, and select the NACL that's associated with two subnets.
8. Click the *Inbound Rules* tab, and we'll see RDP traffic is allowed through our NACL.

Inbound rules

Outbound rules

Subnet associations

Tags

Inbound rules (3)

Edit inbound rules

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Filter inbound rules

<1>

Rule number	Type	Protocol	Port range	Source	Allow/Deny
100	All traffic	All	All	0.0.0.0/0	<div><div></div>Allow</div>
110	RDP (3389)	TCP (6)	3389	0.0.0.0/0	<div><div></div>Allow</div>
*	All traffic	All	All	0.0.0.0/0	<div><div></div>Deny</div>

9. Click the *Outbound Rules* tab, and we'll see all TCP ports are allowed.
10. Click **Security Groups** in the left-hand menu, and select the one listed.
11. Click the *Inbound Rules* and *Outbound Rules* tab, and notice all traffic is allowed in and out.

1.2. Create New Security Group and Allow Inbound RDP Traffic into It

Now, we'll create a new security group and allow inbound RDP traffic (port 3389) into our security group.


1. Navigate to EC2 via the *Services* menu at the top.
2. Click **Security Groups** in the left-hand menu, and then click **Create Security Group**.
3. In the *Create Security Group* popup, use the following values:
 - *Security group name*: EssentialsSG
 - *Description*: EssentialsSG
 - *VPC*: Leave default listed.
 - *Inbound*: Click **Add Rule** and use the following values:
 - *Type*: RDP
 - *Protocol*: TCP
 - *Port Range*: 3389
 - *Source*: Custom 0.0.0.0/0
 - *Description*: RDP ACCESS
4. Click **Create**.

2. Create a Windows EC2 Instance


1. Navigate to the EC2 dashboard, and click **Launch Instance**.
2. On the AMI page, scroll to find and select the free-tier Windows server.
3. Leave *t2.micro* selected, and click **Next: Configure Instance Details**.
4. On the *Configure Instance Details* page:
 - Leave the default *Network* and *Subnet* selected.
 - *Auto-assign Public IP*: Enable

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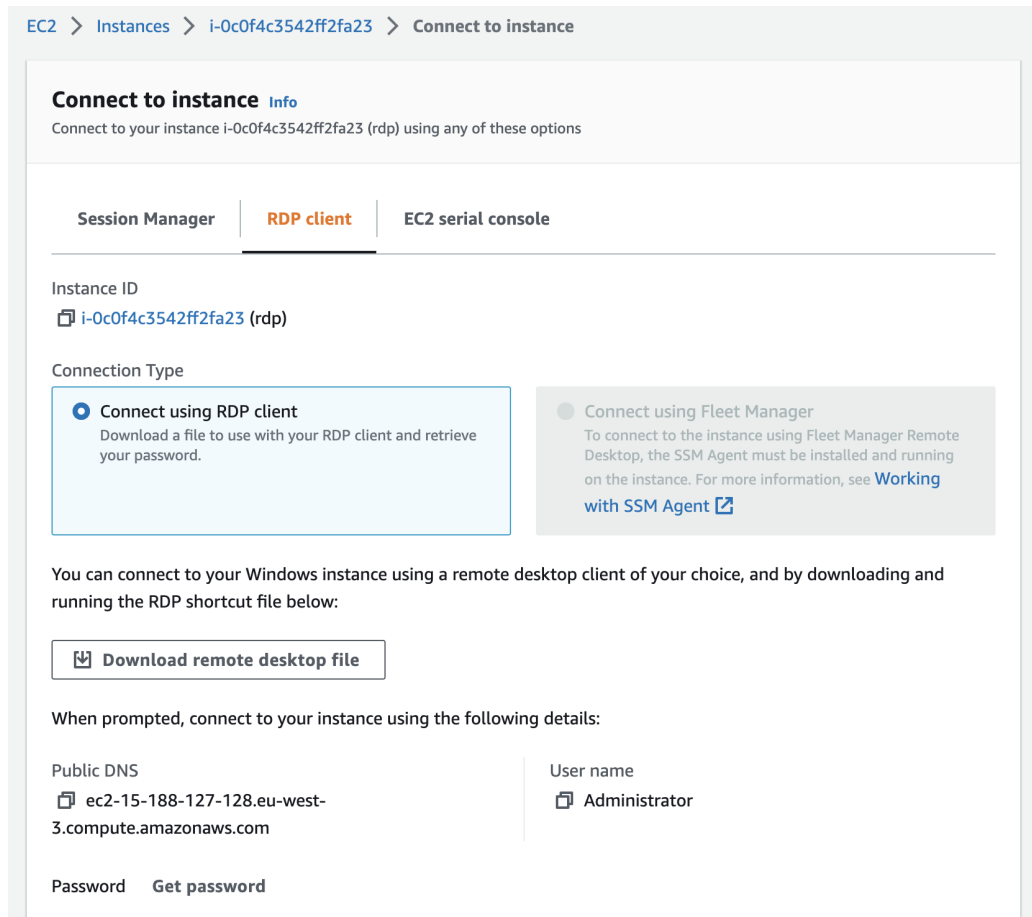
Microsoft Windows Server 2022 Base
 ami-0be29bafdaad782db (64-bit (x86))
 Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible ▼

t2.micro
 Family: t2 1 vCPU 1 GiB Memory
 On-Demand Linux pricing: 0.0116 USD per Hour
 On-Demand Windows pricing: 0.0162 USD per Hour

Free tier eligible ▼

- Click **Next: Add Storage**, and then click **Next: Add Tags**.
- On the *Add Tags* page, add the following tag:
 - Key: Name
 - Value: WinRDP
- Click **Next: Configure Security Group**.
- Click to *Select an existing security group*, and then select *EssentialsSG* from the table.
- Click **Review and Launch**, and then **Launch**.
- In the key pair popup, select **Create a new key pair** and give it a *Key pair name* of "windowsrdp". Click **Download Key Pair**, and then **Launch Instances**.
- Click **View Instances**, and give it a few minutes to enter the *running* state.
- Once it's running, click **Connect** at the top.
- Click **Download Remote Desktop File**, then **Save File**, and **OK**.



14. Click **Get Password**.
15. Click **Browse...**, and then open your downloaded key pair .pem file.
16. Click **Decrypt Password**.
17. Copy the password, and then click **Close**.

3. Connect Using RDP

Finally, we'll connect to our RDP instance.

1. Open your Downloads directory, and open the .rdp shortcut file that was downloaded as part of the instance setup.
2. You might get a message saying the connection may not be secure. Click **Continue**.

3. In the *User Account* popup, paste in the password we just copied, and click **Done** and the **Continue**.
4. The RDP connection should pop up.

