



# IP Address


 This topic only applies to **Armor Complete** users.


 To fully use this screen, you must have the following permissions assigned to your account:


- Read Network IP
- Write Network IP
- Read Network NAT
- Write Network NAT

## Overview

You can use the **IP Addresses** screen to view and assign private and public IP addresses for your virtual machines.

 By default, IP addresses assigned to a virtual machine are private; however, you can request a public IP address.


 Armor offers one free public IP address per virtual machine. You can request additional public IP addresses for the same virtual machine at an additional cost.

 Additionally, there is a cost associated with a public IP address that is not assigned (routed) to a virtual machine / private IP address.

## Private Section

Column	Description
<b>Private IP</b>	The private IP addresses allocated to your account.
<b>State</b>	<ul style="list-style-type: none"><li>• Reserved (Assigned) - When the private IP address is assigned to a public IP address</li><li>• Unassigned (Available) - When the private IP address is not assigned to a public IP address</li><li>• Primary IP - The primary private IP address assigned to a virtual machine</li><li>• Secondary IP - A secondary private IP address assigned to a virtual machine</li></ul>
<b>Public IPs</b>	The public IP address assigned to the private IP address
<b>VM</b>	The virtual machine associated with the private IP address
<b>Workload</b>	The workload where the virtual machine lives

## Public Section

Column	Description
<b>Public IP</b>	The public IP addresses allocated to your account. <div data-bbox="256 1612 1481 1793" style="border: 1px solid #ccc; padding: 10px; margin-top: 10px;"><p> There is a cost associated with a public IP address that is not assigned (routed) to a private IP address. If you have a public IP address listed in your account that is not assigned to a private IP address, Armor recommends that you remove that public IP address from your account.</p><p>To learn how to remove a public IP address from your account, see <a href="#">Remove an existing public IP address from a virtual machine</a>.</p></div>
<b>State</b>	The status of the public IP address with respect to your private IP addresses <ul style="list-style-type: none"><li>• <b>Not Routed:</b> When a public IP address is not assigned to a private IP address.</li><li>• <b>Routed:</b> When a public IP address has been assigned to a private IP address.</li></ul>

## Assign a new public IP address to an existing virtual machine / private IP address

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1. In the Armor Management Portal (AMP), in the left-side navigation, click **Infrastructure**.
2. Click **IP Addresses**.
3. If you have virtual machines in various data centers, then in the top menu, click the corresponding data center.
4. Click **Public**.
5. Click the plus ( + ) icon.
6. Review the information under **Environment** and **Quantity**, and then click **Add IP Addresses**.
7. Locate and hover over the newly created public IP address.
8. Click the vertical ellipses.
9. Click **Assign to VM**.
10. In **Virtual Machine**, select the desired virtual machine.
11. In **IP Address**, select an available private IP address.
12. Click **Create NAT**.
  - This action may take a few minutes to complete.

## Assign an existing public IP address to an existing virtual machine / private IP address

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In this example, you will assign a public IP address that is displayed as **Not Routed**.

1. In the Armor Management Portal (AMP), in the left-side navigation, click **Infrastructure**.
2. Click **IP Addresses**.
3. If you have virtual machines in various data centers, then click the corresponding data center.
4. Click **Public**.
5. Locate and hover over the desired public IP address.
6. Click the vertical ellipses.
7. Click **Assign to VM**.
8. In **Virtual Machine**, select the desired virtual machine.
9. In **IP Address**, select the corresponding virtual machine.
10. Click **Create NAT**.

## Unassign and remove an existing public IP address from a virtual machine / private IP address

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There is a cost associated with a public IP address that is not assigned (routed) to a virtual machine. After you unassign a public IP address, Armor recommends that you remove the unassigned IP address.

1. In the Armor Management Portal (AMP), in the left-side navigation, click **Infrastructure**.
2. Click **IP Addresses**.
3. If you have virtual machines in various data centers, then in the top menu, select the corresponding data center.
4. Click **Public**.
5. Locate and hover over the desired public IP address.
6. Click the vertical ellipses.
7. Click **Remove NAT**.
8. Click **Remove NAT** again.



If you do not plan to use this public IP address in the future, to avoid additional costs, Armor recommends that you remove the public IP address from your AMP account.

1. In the **Public** section of the **IP Addresses** screen, locate and hover over the desired IP address.
2. Click **Relinquish IP**.
3. Click **Relinquish IP** again.

## Assign a secondary, available private IP address to an existing virtual machine / public IP address

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By default, new virtual machines are assigned a primary private IP address; however, you can assign a secondary private IP address.

1. In the Armor Management Portal (AMP), in the left-side navigation, click **Infrastructure**.
2. Click **IP Addresses**.
3. If you have virtual machines in various data centers, then in the top menu, select the corresponding data center.
4. Locate and hover over the desired private IP address.
5. Click the vertical ellipses.
6. Click **Assign to VM**.

7. In the drop-down menu, select the desired virtual machine, and then click **Assign IP**.

## Unassign a secondary private IP address from a virtual machine / public IP address

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You cannot unassign a primary private IP address from a virtual machine.

1. In the Armor Management Portal (AMP), in the left-side navigation, click **Infrastructure**.
2. Click **IP Addresses**.
3. If you have virtual machines in various data centers, then in the top menu, select the corresponding data center.
4. Locate and hover over the desired private IP address.
5. Click the vertical ellipses.
6. Click **Remove IP from VM**.
7. Select **Remove IP Assignment**.
8. You must also unassign the IP address within the virtual machine to complete the removal.

### Review API calls

- [Get IPs](#)
- [Delete IPs](#)
- [Assign IP](#)
- [Allocate Public IPs](#)

### Related Documentation

- [Advanced Backup](#)
- [Continuous Server Replication \(Disaster Recovery\)](#)
- [Continuous Server Replication \(Disaster Recovery\) for upgraded users](#)
- [Firewall Rules](#)
- [Install SSL VPN Client for Ubuntu 16.x](#)
- [Install SSL VPN Client for Ubuntu 18.x](#)
- [Virtual Machines](#)
- [Workloads](#)