Elastic Network Interface

Product Introduction

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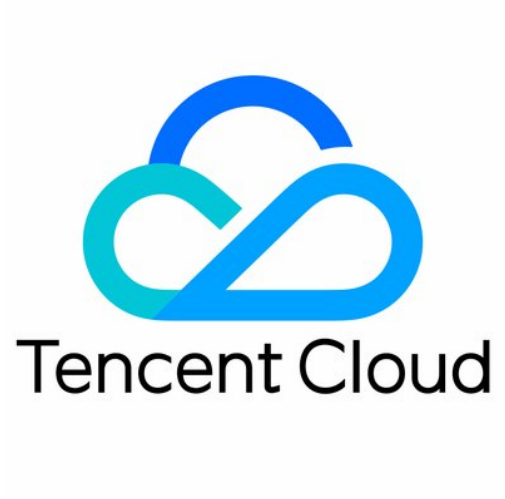

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Basic Information

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ENI is a virtual network interface. You can bind an ENI to a CVM for connection to network. It is very useful for configuring management networks and establishing highly reliable network solutions.

An ENI is VPC, availability zone and subnet-specific, and can only be bound to a CVM that resides in the same availability zone as it. A CVM can be bound with multiple ENIs. The maximum number of ENIs allowed to be bound to a CVM depends on the CVM's specification.

Concepts

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The following information is associated with an ENI:

1. Primary ENI or secondary ENI: The ENI created with the creation of CVM within VPC is the primary ENI, and those created by users are secondary ENIs. The primary ENI does not support binding and unbinding, while secondary ENIs support.
2. Primary private IP: The primary private IP of an ENI is assigned by the system or specified by user when the ENI is created. The primary private IP of primary ENI can be modified, but that of secondary ENI cannot.
3. Secondary private IP: The secondary private IP bound to an ENI in addition to the primary IP. It is configured by user during the creation or editing of ENI, and supports binding and unbinding.
4. EIP: Bound with private IPs of an ENI in a one-to-one manner.
5. Security group: An ENI can be bound with one or more security groups.
6. MAC address: Each ENI has a unique global MAC address.

Use Limits

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The maximum number of ENIs that can be bound to a CVM and that of private IPs that can be bound to each ENI vary greatly with CPU and memory configurations. The limits are shown in the following table. For more information, please see Use Limits on Other VPC Products.

CVM Configuration	Max. Number of ENIs	Max. Number of IPs Bound to Each ENI
CPU: 1-core Memory: 1 GB	2	2
CPU: 1-core Memory: >1 GB	2	6
CPU: 2-core	2	10
CPU: 4-core Memory: < 16G	4	10
CPU: 4-core Memory: >16 GB	4	20
CPU: 8-12 core	6	20
CPU: >12-core	8	30