

# Alibaba Cloud Security Solutions

Safeguard and maximize infrastructure, application, and network performance

## Introduction




The mainstream adoption of new technologies such as digitization, mobility, and the Internet of Things (IoT) has made our lives efficient, both in a personal and professional sense. Organizations have also come to accept the blurring of lines between personal and professional device usage. As a result, an organization's IT ecosystem is no longer restricted to its in-house infrastructure. Device usage has massively expanded the security landscape, with cyber criminals finding and exploiting new vulnerabilities.

## Background




A major challenge for organizations is the increasing number of security threats and the rise of their complexity. The interconnectivity of devices over the Internet, both through IoT and mobility, makes it impossible for organizations to monitor and secure all devices. Cyber criminals have also become more sophisticated, with many online tools available for them to execute attacks. The capability gap between organizational security and cyber criminals is expanding.

While these points make a case for cyber security solutions, physical security is an equally important consideration. Insider attacks are on the rise. Any person with malicious intentions and physical access to a data center can breach an organization's system and launch cyber attacks.

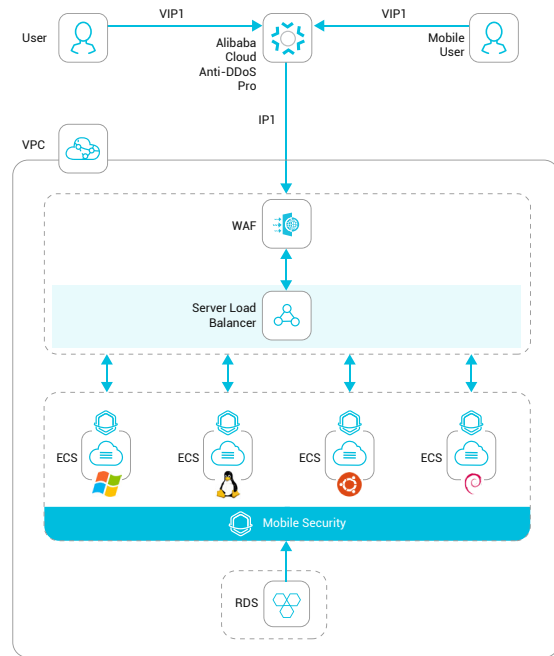
## Highlights

-  Threat intelligence from analysis of petabytes of data
-  Integrated physical and cyber security solutions
-  Defence against online and offline threats

## Benefits

-  Dedicated security R&D team to upgrade solutions as new threats emerge
-  Higher application and network uptime
-  Embrace new technologies without compromising on security

## Recommended Solution Architecture



The above diagram visualizes Alibaba Cloud Security Solutions in action.

As a cloud-based attack protection service, Anti-DDoS Pro cleans and filters out malicious traffic, with only traffic deemed safe allowed to reach the server, thereby ensuring stable access to the origin site IP address. This helps to prevent servers crashing from an overwhelming number of requests.

Web Application Firewall (WAF) is a web application based security software-as-a-service (SaaS) product that helps protect and secure sensitive organizational data. It ensures all requests pass through WAF, which allows it to detect malicious web requests. It also protects against custom web application attacks.

Mobile Security ensures the security of mobile applications with vulnerability testing and detection, malware protection, and application hardening techniques for end-to-end protection throughout the mobile application lifecycle.

Apart from the features mentioned above, Alibaba Cloud also offers physical security solutions, which includes access card and fingerprint access control systems for secure access management. Further, data center facility management helps monitor emergency communication systems, with 24/7 surveillance to manage day-to-day operations.