# Server Load Balancer

**Best Practices** 

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# **Best Practices**

## What are guaranteed-performance instances?

The performance metrics, such as MaxConnection, CPS, and QPS, are included in the guaranteedperformance instance SLA. In contrast, the shared-performance instances do not provide the performance guarantees. The Server Load Balancer resources are shared among the sharedperformance instances.

The following are three key metrics of guaranteed-performance instances:

#### Max Connection

The maximum number of connections to a SLB instance. When the maximum number of connections reaches the limits of the specification, the new connection will be dropped.

#### Connection Per Second (CPS)

The rate at which a new connection is established per second. When the CPS reaches the limits of the specification, the new connection will be dropped.

#### Query Per Second (QPS)

The number of HTTP/HTTPS queries/requests that can be processed per second, which is specific to the layer-7 listener. When the QPS reaches the limits of the specification, the new connection will be dropped.

Alibaba Cloud Server Load Balancer provides the following specifications of the guaranteedperformance instances for you to choose:

Specification		Max Connection	CPS	QPS
Specification 1	Small I (slb.s1.small)	5000	3000	1000
Specification 2	Standard I (slb.s2.small)	50000	5000	5000
Specification 3	Standard II (slb.s2.medium)	100000	10000	10000
Specification 4	Higher I	200000	20000	20000

	(slb.s3.small)			
Specification 5	Higher II (slb.s3.medium)	500000	50000	30000
Specification 6	Super I (slb.s3.large)	1000000	100000	50000

Before launching guaranteed-performance instances, all the instances that you created previously are shared-performance instances. For the guaranteed-performance instances, you can view the specification on the console as shown in the following figure.

GP	cn-hangzhou- f(Master) cn-hangzhou- e(Slave)	100. 247 Private Network	Running	Classic No Network Cor	t nfiguredConfigure	Not ConfiguredCon	Guaranteed-Perfor Instance slb.s1.small	Max Connection: 5000 CPS: 3000 QPS: 1000	ffic	Pay-As-You 2017-09-0 Created	J-Go 4 10:42:16 Ma	nage   1	More +
Server Load Balancer ID/Name	Zone	IP Address(All) - S	itatus	Network(All)	t/Health Check	Backend Serve	r Instance Spec	Bandwidth Method(All	Billing ) <del>-</del>	Billing Met	hod(All) <del>-</del>	A	ction
Server Load Balancer Na	ame 🔻 Enter la	ad balancer names s	eparated by	/ con Search	<b>€</b> Tag							2	٥
									0	Refresh	Create Server Loa	d Balan	cer
	Asia Pacific NE 1 (Tokyo)	Asia Pacific SE 1 (S	Singapore)	Asia Pacific SE 2	(Sydney) US E	ast 1 (Virginia) U	S West 1 (Silicon Valley)	Middle East 1 (Dubai)	EU Central 1 (F	rankfurt)			
Instance Management	China North 1 (Qingdao)	China North 2 (Beij	ing) Chin	a North 3 (Zhangji	iakou) China Ea	ist 1 (Hangzhou)	China East 2 (Shanghai)	China South 1 (Shenzhe	en) Hong Kong	3			

## Release plan of the guaranteed-performance instances

From mid-May 2017, Alibaba Cloud starts upgrading shared-performance instances to guaranteedperformance instances in US East 1 (Virginia), following with China South 1 (Shenzhen) and China East 2 (Shanghai). The release plan for other regions are as follows:

- China North 2 (Beijing) and China East 1 (Hangzhou): Mid-August
- China North 1 (Qingdao): Late-August
- China North 3 (Zhangjiakou) and other regions: End of August

#### How to choose the specification of the guaranteedperformance instances?

You need to choose the specification according to your service types, the overall principle is as follows:

The key factor of the layer-4 listeners is the number of the concurrent connections of the TCP keep-alive connections, then the max connection is considered as the key metrics. Depending on the business scenarios, you need to estimate the maximum number of concurrent connections and select the appropriate specification.

The key factor of the layer-4 listeners is the performance of the QPS. QPS determines the throughput of a layer-7 application system. Similarly, you also need to estimate the QPS based on the experience. After the initial selection of a specification, you can adjust the specification during the business stress test and real test.

Combined with other monitoring metrics introduced with the guaranteed-performance instances to check the actual business trends, peak bandwidth, and so on for more accurate selection. For details, see Monitoring data.

Billing method:

For the Pay-AS-You-Go guaranteed-performance instances, you can downgrade or upgrade the configurations, but for the Subscription guaranteed-performance instances, you can just upgrade the configurations, but cannot downgrade.

We recommend that you purchase a Pay-AS-You-Go guaranteed-performance instance for testing. When the specification is decided, purchase a Subscription guaranteed-performance instance.

Additionally, if you also change the billing method (from PayByTraffic to PayByBandwidth, vice versa) when changing the specification of a guaranteed-performance instance, the modification will take effect in next day at 00 : 00. If you only change the specification, the modification takes effect immediately. We recommend that you do not change the billing method while changing the specification.

# How to handle the original shared-performance instances?

The original shared-performance instances will not be automatically upgraded to guaranteedperformance instances and also will not be charged for the specification fee.

You can manually upgrade them to the guaranteed-performance instances. After upgrading, you will be charged for the specification fee accordingly.

**Note**: Some of the shared-performance instances may be deployed on the old cluster. When upgrading these instances to the guaranteed-performance instances, a service interruption in 10-30 seconds may occur during the migration of the instances. We recommend upgrading these instances in the low traffic period. The upgrading of the guaranteed-performance instances has no impact on the services.

# Why sometimes the guaranteed-performance instances cannot reach the performance limit defined in the specification.

The guaranteed-performance instances do not guarantee that the three metrics (including the peak bandwidth) can reach the specification limits at the same time. That is, the metrics that the first

reaches the limitation, on which the limitation is triggered.

For example, you purchase a guaranteed-performance instance of the specification higher I (slb.s3.small). When the QPS of the instance reaches 20,000 but the number of the maximum connections does not reach 200,000, the new connections are still dropped because the QPS reaches the limitation.

Similarly, if you billing method of the guaranteed-performance instance is PayByBandwidth, when the peak bandwidth is reached, the new connections will also be dropped even though the instance does not reach the performance specification limits.

#### Why sometimes the performance of the guaranteedperformance instance are worse than the sharedperformance instance?

The shared-performance instances share all the resources. The performance may be better than the guaranteed-performance instances when the traffic is low. However, in the situation of high traffic, the shared-performance instances does not guarantee the performance while the guaranteed-performance instance does.

#### When can I use API to create and modify the guaranteedperformance instances?

Currently, the creation and modification of the guaranteed-performance instances is not supported by Server Load Balancer API. Please check the registered email account and Alibaba Cloud website for notifications.

# Can I still buy the shared-performance instances?

Yes. However, the shared-performance instances will be unavailable in the future. Please check the registered email account and Alibaba Cloud website for notifications.

Server Load Balancer provides session persistence function. With session persistence enabled, Server Load Balancer can distribute requests from the same client to the same backend server during the session period. For layer-7 listeners, session persistence is based on cookies. If you choose the **Rewrite Cookie** method, you have to configure the cookie in the backend server.

Follow the instructions in this section to set cookies in the backend server.

# Apache

Open the httpd.conf file and ensure that the following line is not commented.

LoadModule usertrack\_module modules/mod\_usertrack.so

Add the following configurations in the VirtualHost file.

CookieName name CookieExpires "1 days" CookieStyle Cookie CookieTracking on

### Nginx

Configure the configuration file as follows.

```
server {
listen 8080;
server_name wqwq.example.com;
location / {
add_header Set-Cookie name=xxxx;
root html;
index index.html index.htm;
}
}
```

## Lighttpd

Configure the configuration file as follows.

```
server.modules = ( "mod_setenv" )
$HTTP["host"] == "test.example.com" {
server.document-root = "/var/www/html/"
setenv.add-response-header = ( "Set-Cookie" => "name=XXXXXX" )
}
```

In this tutorial, an ECS instance deployed with a static web page using Nginx is used as an example, and a security rule for allowing access through SSH and web ports is added for the ECS instance.

#### Task 1 Clone an ECS instance

Create a snapshot for the system disk.

Query the system disk ID of the instance.

**Request:** 

```
https://ecs.aliyuncs.com/?Action=DescribeInstanceDisks&InstanceId=id5ab1760-
3498-4d95-9687-a91545ef90b3
```

Response:

```
{
    "RequestId" : "9F2188AC-AFAC-4F43-B452-C88463B9F069",
    "Disks" : {
    "Disk" : [
    {
        "DiskId" : "1008-27930",
        "Size" : 20,
        "Type" : "system"}]
    }
}
```

Create a snapshot for the system disk.

Request:

```
https://ecs.aliyuncs.com/?Action=CreateSnapshot&InstanceId=id5ab1760-3498-4d95-9687-a91545ef90b3&DiskId=1008-27930&SnapshotName=mytesthost1-init
```

Response:

```
{
"RequestId" : "5CA4F9E6-81D2-42E1-A317-4C25284C6939",
"SnapshotId" : "1008-27930-1097358"
}
```

Query the snapshot creation process. When the progress is 100, it indicates that the snapshot has been created.

**Request:** 

https://ecs.aliyuncs.com/?Action=DescribeSnapshotAttribute&RegionId=cnhangzhou-dg-a01&SnapshotId=1008-27930-1097358

Response:

{

```
"RequestId" : "8307863A-1415-40EF-9520-8974871E651C",
"SnapshotId" : "1008-27930-1097358",
```

```
"SnapshotName" : "mytesthost1-snp-init",
"Progress" : "100",
"CreationTime" : "2013-05-19T03:19Z"
}
```

Create a custom image with the newly created snapshot.

Request:

https://ecs.aliyuncs.com/?Action=CreateImage&RegionId=cn-hangzhou-dga01&SnapshotId=1008-27930-1097358&Description=for creating test instances

Response:

```
{
"RequestId" : "38C930E9-5CE9-4E24-A392-8538FC20D503",
"ImageId" : "m8a1f80fe-ed9d-4156-a7a8-432f66305c36"
}
```

Clone the ECS instance.

With the custom image, an ECS instance with the same configuration can be cloned and the second ECS instance will be created with this ImageID: ImageId=m8a1f80fe- ed9d-4156a7a8-432f66305c36.

In this example, the ECS instance configuration is as follows.

```
{
"RequestId" : "850ED7ED-A4D5-40A1-A7EF-C33B74B1296B",
"InstanceId" : "i6b47cd72-843f-4558-b911-2776acae06fb",
"ImageId" : "m8a1f80fe-ed9d-4156-a7a8-432f66305c36",
"RegionId" : "cn-hangzhou-dg-a01",
"ZoneId" : "cn-hangzhou-gy002-a",
"InstanceType" : "ecs.t1.small",
"HostName" : "mytesthost2",
"Status" : "Stopped",
"SecurityGroupIds" : {
"SecurityGroupId" : [
"g1f91e6e8-3c4b-4923-98dd-78aacbd09d17"
]
},
"PublicIpAddress" : {
"IpAddress" : [
"10.10.10.173"
]
},
"InnerIpAddress" : {
"IpAddress" : [
"10.32.148.152"
1
```

```
},
"InternetMaxBandwidthIn" : 2,
"InternetMaxBandwidthOut" : 2,
"SerialNumber" : "1fec6c01-7186-2c3e-fa10-a672b8c300ec"
}
```

To distinguish this new ECS instance, change the sample sentence in the Body of the file /usr/share/nginx/www/default/index.html. For example: Welcome to nginx on mytesthost2!.

#### Task 2 Create a Server Load Balancer instance

Create a Server Load Balancer instance.

**Request:** 

```
https://slb.aliyuncs.com/?Action=CreateLoadBalancer&RegionId=cn-hangzhou-dg-a01
```

Response:

```
{
    "RequestId" : "3DE96B24-E2AB-4DFA-9910-1AADD60E13A5",
    "LoadBalancerId" : "13ebb82ceaa-cn-hangzhou-dg-a01",
    "Address" : "10.10.10.77"
}
```

A Server Load Balancer with the ID 13ebb82ceaa-cn-hangzhou-dg-a01 is created. You can use the same method to create a Layer-4 instance as follows.

```
https://slb.aliyuncs.com/?Action=CreateLoadBalancerHttpListener&LoadBalancerId=13ebb8
2ceaa-cn-hangzhou-dg-
a01&ListenerPort=80&BackendServerPort=80&ListenerStatus=active
```

Activate the Server Load Balancer instance.

Request:

```
https://slb.aliyuncs.com/?Action=SetLoadBalancerStatus&LoadBalancerId=13ebb82ceaa-
cn-hangzhou-dg-a01&LoadBalancerStatus=active
```

#### Task 3 Add backend servers

Add a backend server through the AddBackendServers interface.

#### Request:

https://slb.aliyuncs.com/?Action=AddBackendServers&LoadBalancerId=13ebb82ceaa-cnhangzhou-dg-a01&BackendServers=[{"ServerId":"id5ab1760-3498-4d95-9687a91545ef90b3"}]

Response:

Add another backend server.

Request:

https://slb.aliyuncs.com/?Action=AddBackendServers&LoadBalancerId=13ebb82ceaa-cnhangzhou-dg-a01&BackendServers=[{"ServerId":"i6b47cd72-843f-4558-b911-2776acae06fb"}]

Response:

```
{
    "RequestId" : "C61FAD0A-2E87-4D0C-80B0-95AB758FCA70",
    "LoadBalancerId" : "13ebb82ceaa-cn-hangzhou-dg-a01",
    "BackendServers" : {
        "BackendServer" : [
        {
            "ServerId" : "id5ab1760-3498-4d95-9687-a91545ef90b3",
            "Weight" : 100
        },
        {
            "ServerId" : "i6b47cd72-843f-4558-b911-2776acae06fb",
        "Weight" : 100
        }
    ]
}
```

View the configuration details of the Server Load Balancer instance.

#### Request:

https://slb.aliyuncs.com/?Action=DescribeLoadBalancerAttribute&LoadBalancerId=13ebb82 ceaa-cn-hangzhou-dg-a01

Response:

```
{
"RequestId" : "4747E9AE-ADFD-412D-B523-C1CBD45A2154",
"LoadBalancerId" : "13ebb82ceaa-cn-hangzhou-dg-a01",
"Address" : "10.10.10.77",
"IsPublicAddress" : "true",
"ListenerPorts" : {
"ListenerPort" : [
80
]
},
"BackendServers" : {
"BackendServer" : [
"ServerId" : "id5ab1760-3498-4d95-9687-a91545ef90b3",
"Weight" : 100
},
{
"ServerId" : "i6b47cd72-843f-4558-b911-2776acae06fb",
"Weight" : 100
}
]
}
}
```

If you directly remove backend ECS instances from a Server Load Balancer instance, this may cause service interruption. We recommend setting the weight of the ECS instance to zero first, and then remove it when no traffic is distributed to it.

Log on Server Load Balancer console.

Choose a region and then click the ID of the target Server Load Balancer instance.

In the left-side navigation pane, click Server > Backend Server.

If the ECS instance is added to server group, click VServer Group or Master-Slave Server Group accordingly.

Hover the mouse pointer to the weight of the target ECS instance and then set value to **0**.

<	ACS- TReturn to Server Load Balancer List.						
Details	Load Balancer Server Pool Region : China East 1 (Hangzhou) Zone : cn-hangzhou-f (Master) /cn-hangzhou-e (Slave) 🛛						
<ul> <li>Server</li> </ul>	Servers Added Servers Not Added						
Backend Server	Instance Name   Enter the instance name of the ECS server. Search Search		C Refresh				
VServer Group	ECS Instance ID/Name Zone Public/Internal IP Address Status(AII) + Network Type(AII) + Health Check	Weight	Action				
Master-Slave Server	Hob12gctp6mmcztlaavd cfe9117922zfa486         on- hangzbou-f         121 (Elastic) 172         I22 (Phrata)         VPC (vpc-bp15p1s/mc2fg7p5u7edy)         Normal	100 🖌	Remove				

When no traffic is distributed to the ECS instance, click **Remove** to remove it from the backend server pool.

### Troubleshoot

If there are ongoing business requests sent to the ECS instance after removing it from the backend server pool, check the following:

Whether the ECS instance is added to backend server pools of other Server Load Balancer instances.

You can use the ECS instance ID to filter the Server Load Balancer that the ECS instance is added to.

Instance Management												
China North 1 (Qingdao)	China North 2	2 (Beijing)	China North 3 (Zha	ngjiakou)	China East 1 (F	langzhou)	China East 2 (Shang	hai) China :	South 1 (Shenzi	nen)		
Hong Kong Asia Pacifi	c NE 1 (Japan)	Singapore	Asia Pacific SE 2 (	(Sydney) l	JS East 1 (Virgi	nia) US V	Vest 1 (Silicon Valley)	Middle East	1 (Dubai)			
Germany 1 (Frankfurt)												
								:	C Refresh	Create Server	Load Bala	incer
Backend Server ID	٣	i-bp12gicjp	6mr		Search	<b>%</b> T	ag				<u></u>	٥
Server Load Balancer ID/Name	Zone	IP Address(	(All) Status	Network(All	) Port/Health C	heck	Backend Server	Instance Spec	Bandwidth Billing Method(All)	Billing Method(All)		Action
Ib-1udstfm38 acs-slb-cfe9117922	cn-hangzhou- f(Master) cn-hangzhou-	120 Public IP	Running	Classic Network	TCP: 80	Normal	cfe91179	Shared- Performance Instance	Pay by Traffic	Pay-As-You- Go 2017-09-16 14:27:43	Manage	More+

Log on to the ECS instance, run the netstat command to check whether the ECS instance has deployed public services.

				:~# nets	stat -an	0					
Active	e Intern	et conr	nections	(servers	and es	tablis	hed)				
Proto	Recv-Q	Send-Q	Local Ad	Idress		Forei	gn Addre	ess	State	Time	er
tcp	Θ	0	0.0.0.0:	:22		0.0.0	.0:*		LISTEN	off	(0.00/0/0)
tcp	Θ	Θ	0.0.0.0:	111		0.0.0	.0:*		LISTEN	off	(0.00/0/0)
tcp	Θ	Θ	172.16.	11111	12285			:80	ESTABLISHED	off	(0.00/0/0)
tcp	Θ	428	172.16.		22			:44832	ESTABLISHED	on	(0.16/0/0)
tcp6	Θ	0	:::111			:::*			LISTEN	off	(0.00/0/0)
udp	Θ	0	0.0.0.0:	42947		0.0.0	.0:*			off	(0.00/0/0)
udp	Θ	0	0.0.0.0:	:68		0.0.0	.0:*			off	(0.00/0/0)
udp	Θ	Θ	0.0.0.0:	:111		0.0.0	.0:*			off	(0.00/0/0)
udp	Θ	0	0.0.0.0:	627		0.0.0	.0:*			off	(0.00/0/0)
udp	Θ	0	172.16.		123	0.0.0	.0:*			off	(0.00/0/0)
udp	Θ	0	127.0.0.	1:123		0.0.0	.0:*			off	(0.00/0/0)
udp	Θ	0	0.0.0.0:	:123		0.0.0	.0:*			off	(0.00/0/0)
udp6	Θ	0	:::111			:::*				off	(0.00/0/0)
udp6	Θ	0	:::627			:::*				off	(0.00/0/0)
udp6	Θ	Θ	:::123			:::*				off	(0.00/0/0)
udp6	Θ	0	:::1275			:::*				off	(0.00/0/0)
Active	e UNIX d	lomain s	sockets (	(servers	and est	ablish	ed)				
Proto	RefCnt	Flags	Тур	)e	State		I-Node	Path			
unix	2	[]	DGF	RAM			7689	/run/s	systemd/shutdow	nd	
unix	7	[]	DGF	RAM			7691	/run/s	systemd/journal,	/dev-	log
	0	L 100 1	050		I TOTELLE	110	7005		1 / 1 1		

# Introduction to the obtaining IP address function

Alibaba Cloud Server Load Balancer provides the function of obtaining the real IP address of the client and this function is enabled by default.

For the Layer-4 load balancing service (TCP protocol), the listener distributes the client requests to the backend ECS servers without modifying the request headers. Therefore, you can obtain the real IP address from the backend ECS servers without additional configurations.

For the Layer-7 load balancing service (HTTP/HTTPS protocol), you have to configure the application server, and then use the X-Forwarded-For header to obtain the real IP address of the client.

Note: For the HTTPS load balancing service, the SSL certificates are configured in the front-end listener, the backend still uses the HTTP protocol. Therefore, the configurations on the application server are the same for HTTP and HTTPS protocols.

dd Listener	
1.Listener Configurati	on 2.Health Check Configuration 3.Success
Frontend Protocol [Port] <b>*</b>	HTTP <b>v</b> : You can enter any port number from 1-65535.
Backend Protocol [Port]≉	HTTP : You can enter any port number from 1-65535.
Peak Bandwidth:	Unlimited Configure You can set a peak bandwidth from 1-5000M. By default, the instances charged by traffic do not have peak bandwidth limit.
Scheduling Algorithm:	Weighted Roun 🔻
Use VServer Group:	0
Automatically Activate Listener after Creation:	Activated
Collapse – Advanced Options	
Obtain Real IP:	Activated(Default)
Session Persistence:	Close HTTP HTTP sticky sessions are based on cookies.

# Configure web applications

This section introduces some common methods used to configure web applications.

#### Configure IIS7/IIS8

Download and extract the F5XForwardedFor.

Copy the F5XFFHttpModule.dll and F5XFFHttpModule.ini files from the extracted folder to a folder, such as C:\F5XForwardedFor\. Ensure the IIS process has the write permission to this folder.

Open the IIS Manager, and then double-click the Modules function.

File View Help								
Connections	🧤 iZe	eu6akphal	b4juZ Ho	me				
Start Page	Filter:		• 🐺 Go 🕞 🖣	Show All	Group by: Are	ea	-	^
@r Application Pools ⊳ - 6 Sites		Ą	0	Ξ	404	2		
	Authentic	Compression	Default Document	Directory Browsing	Error Pages	Handler Mappings	HTTP Respon	
		<b>j</b>	4		<b>e</b>	ļ	R	
	Logging	MIME Types	Modules	Output Caching	Request Filtering	Server Certificates	Worker Processes	
	Manageme	nt Ila	<u></u>	<u>.</u>	i 🖉	<b>1</b>		^
	Configurat Editor	Feature Delegation	IIS Manager Permissions	IIS Manager Users	Management Service	Shared Configurat		

Click Configure Native Modules, and then click Register.

		2 4		Actions
	Configure Native Module			Add Managed Module
Use this Web ser	Select one or more registered modules to enable:		the	Configure Native Modules View Ordered List
Group	UriCacheModule	Register		Help
Name	TokenCacheModule	Edit	ntry Type	
Anony			pcal	
Custon		Remove	pcal	
Default			pcal	
Directo			pcal	
HttpCa			pcal	
HttpLo			pcal	
Protoc			pcal	
Reques			pcal	
StaticC			pcal	
StaticFi			pcal	
	OK	Cancel		

Add the copied the .dll file.

Register Native Module ? ×
Name: F5XForwardedFor_64
Path: C:\Users\Administrator\Desktop\F5XForwardedFor\F5XForwardedFor
OK Cancel

Add the ISAPI and CGI restrictions for the .dll file and set the restriction to Allowed.

Ensure that you have installed the ISAPI and CGI applications.

File View Help						
Connections	Use this feature to	and CGI Re	Strictions and CGI extensions that can run on the Web server.			
IZeubakphab4juZ (IZeubakphi     Application Pools	Group by No Grouping					
Application roots	0.000 031 140 01	ouping				
⊳õi Sites	Description	Restriction	Path			
	Active Server P	Allowed	%windir%\system32\inetsrv\asp.dll			
	х64	Allowed	C:\Users\Administrator\Desktop\F5XForwardedFor\F5			
	x86	Allowed	C:\Users\Administrator\Desktop\F5XForwardedFor\F5			

Restart the IIS Manager.

#### **Configure Apache**

Run the following command to the install the mod\_rpaf module.

wget http://stderr.net/apache/rpaf/download/mod\_rpaf-0.6.tar.gz tar zxvf mod\_rpaf-0.6.tar.gz cd mod\_rpaf-0.6 /alidata/server/httpd/bin/apxs -i -c -n mod\_rpaf-2.0.so mod\_rpaf-2.0.c

Open the /alidata/server/httpd/conf/httpd.conf file and add the following information at the end of the content.

LoadModule rpaf\_module modules/mod\_rpaf-2.0.so RPAFenable On RPAFsethostname On RPAFproxy\_ips IP\_address RPAFheader X-Forwarded-For

RPAFproxy\_ips : the IP address is not the IP address of the Server Load Balancer instance. Check the Apache log to find the IP address, usually both the two IP addresses are entered.

Run the following command to restart the Apache server.

/alidata/server/httpd/bin/apachectl restart

#### **Configure Nginx**

Run the following command to install http realip module.

wget http://nginx.org/download/nginx-1.0.12.tar.gz tar zxvf nginx-1.0.12.tar.gz cd nginx-1.0.12 ./configure --user=www --group=www --prefix=/alidata/server/nginx --with-http\_stub\_status\_module -without-http-cache --with-http\_ssl\_module --with-http\_realip\_module make make install kill -USR2 `cat /alidata/server/nginx/logs/nginx.pid` kill -QUIT `cat /alidata/server/nginx/logs/ nginx.pid.oldbin`

Run the following command to open the nginx.conf file.

vi /alidata/server/nginx/conf/nginx.conf

Find the following content and add the required information after it.

fastcgi connect\_timeout 300; fastcgi send\_timeout 300; fastcgi read\_timeout 300; fastcgi buffer\_size 64k; fastcgi buffers 4 64k; fastcgi busy\_buffers\_size 128k; fastcgi temp\_file\_write\_size 128k;

The information to be added :

set\_real\_ip\_from IP\_address
real\_ip\_header X-Forwarded-For;

set\_real\_ip\_from IP : the IP address is not the IP address of the Server Load Balancer instance. Check the Nginx log to find the IP address, usually both the two IP addresses are entered.

Run the following command to start the Nginx server.

/alidata/server/nginx/sbin/nginx -s reload