Message Service

Quick Start

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Quick Start

Preparations

Start to Use Alibaba Cloud Message Service

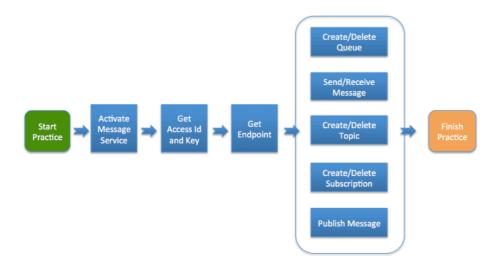
Alibaba Cloud Message Service provides you with professional message middleware service which facilitate you to do system decoupling and deal with massive concurrent requests.

The document **Overview** contains the concepts you should know before using Message Service, such as the details of the 2 models (Queue and Topic) and the difference between them.

Next, you can do the operations of Queue and Topic on the Console of Message Service or in your application code with the SDK.Please refer to the Development Guide of Message Service.

This section guides you how to practice the operations of Queue or Topic on the Console of Message Service.

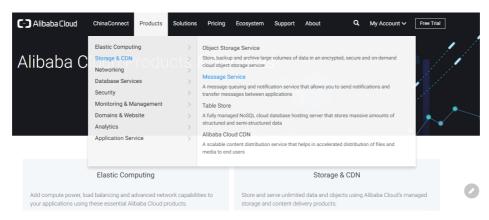
Practice Steps for Using Message Service



Activate Service

Activate Message Service

Open the homepage of Alibaba Cloud, move arrow of mouse on **Procducts -> Storage & CDN -> Message Service** and click on the **Message Service** to the home page of Message Service.



Click the button Get it Free on the page as below.

G Message Service Manageme: Message Message Message	Service - A Diatrice + essage-service 6	t t
A message queuing and n between applications	ge Service otification service that facilitates smooth transfer of messages	
ALL PRODUCTS Overview Product Details Getting Started Resources FAQs	Current Content in the state of	
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Accept Service Terms and Active Service in the Activate Page by clicking Activate Now.

C-) Ali	baba Cloud									
N	lessage Service(MNS)	Activate								
	Product name :	Message Service(MNS)							
		Accept (Sem	ice Terms)							
		Activate	now							
About Us	Privacy Policy	Site Terms	Notice List						English	
Alibaba Gro	sup Taobao Marketpla	ice Tmall Juhua	suan AliExpress Alibab	a.com 1688 Alimama	Alitrip YunOS AliTel	iecom AutoNavi I	JCWeb Umeng	Xiami TTPoc	DDChong DingT	alk Alipay UC
© 2009-20	16 Copyright by Alibal	ba Cloud All righ	its reserved							

Get AccessKey

Get AccessKey

Note: Skip this step if you have already got the accesskey.

Open the home page of console of Alibaba Cloud at https://home-intl.console.aliyun.com.

Note: this page requires user to log in first and find **Message Service** by moving arrow of mouse on **Products > Base Services > Application Services > Message Service**.

Home	Products •	۹	4 68 Billing Management	Support ICP Enterprise	Documentation xuc****@sina.com English
Recently visit E-MapReduce Message Service	Base services Security Domain Services	Elastic Computing ApsanDB Storage & CDN Networking Analysis Cloud Communication Monitor and Nanagement Application Services AlChord Noble Services	API Gateway Message Service	•	
 Ø ▲ Virtual × Server 	Compute Service Private Cloud .oad Balancer	 ApsaraDB for RDS ApsaraDB for Redis ApsaraDB for Memcache 	Object Storagi Table Store Alibaba Cloud CDN	Server Load Balancer Virtual Private Cloud Elastic IP Address	Introduce how to analyze website data with E- MagReduce. How to Deploy a WordPress Instance on E This blog earlians how to acha a WordPress instance with an Apache web server on Ubuntu 14.04.
کھر Auto S	aling	Data Transmission Service	Monitor and Management	ExpressConnect	

Move arrow on **Account Name** at the top right corner of website. And click **accessskeys** in the pop-up dialog.

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=	Message Service	Queue List	China North 2 (Beijing) China East 1 (H China East 2 (Shanghai) China South 1		g China North 1 (Qir				Ê		â	ste Queue
۵	Queue		Asia Pacific SE 2 (Sydney) EU Central 1				ore)		User Info	Security Settings	Security Console	
*	Topic		Asia Facilie SE 2 (Syuney) EO Celidai 1	I (Halikiult) Midule L	ast I (Dubai) 05 W	est 1 (Silicon Valley)			8			
\$	Log Management	Queue Query	Only prefix search is supported. Fuzzy sear	arch is not suppo	earch				accesskeys			
8	Help			Number		Number of	Time of			Sign out		
*		Queue Name		essage Delay Active ec) Messages	Inactive • • Messages •	Delayed Messages	Creation/Last Modification	Loggin	g Enabled			Action
		Ξ										
*												
a x					You have	e no queues yet, Create	Now					

Get the accesskey from the Accesskey Management website by clicking show.

Note: if there is not any access key, you can create a new key by clicking the button **Create Access Key**.

3	Home	Products 🗸	۹ ۱	L <u>67</u>	Billing Management	Support	ICP	Enterprise	Documentation	xuc****@si	na.com	English
≡ •	Access Key Mana	agement (4)								Refresh	Create Ac	cess Key
b	@Access Key ID	and Access Key Secret are the API key	ys for you to access Aliyun. It	has full	access privilege of the acco	unt. Please ke	ep it safe.					
ø	Access Key ID		Access Key Secret				S	itatus	Create Time			Action
3	LTAIqC7U2kjchIvn		Show				E	nabled	2017-01-20 13:48:56		Disable	Delete
8	LTAIgI7UqHLlwcH		Show				E	inabled	2016-12-12 23:17:36		Disable	Delete
•	LTAIP0S0uXn9tJaj		Show				E	nabled	2016-11-22 16:45:48		Disable	Delete
≣ *•	LTAI8MfdYbVUgMt	v	Show				E	nabled	2016-09-09 11:56:37		Disable	Delete

Get Endpoint

Get Endpoint for Accessing Message Service.

Log in console of Message Service(mns.console.aliyun.com).

Select a region and click the button **Get Endpoint** at the top right corner to get the endpoints for regions.

Note : There are 3 types of endpoints for each region: Public(access from internet), Private(access from Alibaba Cloud ECS VM) and VPC(access from Alibaba Cloud VPC).

Θ	Home	Products 🗸	۹	🌲 <mark>76</mark> - I	Billing Management	Support ICP	Enterprise	Documentation	xuc****@sina.com	English
=	Message Service	Queue List	China North 2 (Beijing) China East 1 (\mathbb{C} Refresh	Get Endpoint	ireate Queue
۵	Queue		China East 2 (Shanghai) China South : Asia Pacific SE 2 (Sydney) EU Central		Pacific NE 1 (Tokyo)		ire)			
-	Topic		Asia Pacific SE 2 (Sydney) EU Central	I (Frankruit) Midd	pie East 1 (Dubai) US V	vest I (Silicon Valley)				
\$	Log Management	Queue Query	Only prefix search is supported. Fuzzy sea	arch is not suppo	Search					
	Help				ber of Number of	Number of	Time of			
*		Queue Name		essage Delay Activ ac) Mess	re Inactive ages • Messages •	Delayed Messages	Creation/Last Modification	Logging Enabled		Action
8		Ξ								
*										
• ×					You hav	e no queues yet, Create M	low			

Queue Operations

Queue operations

Queue operations

CreateQueue

As an example, to create a queue named MyQueue on Alibaba Cloud MNS as follows.

Click Create queue.

Specify the attributes of the queue on the displayed dialog box, then click **OK** to create the queue.

C)					Q 🔺 🔝 B	lling Management Support ICP	Enterp	rise Do		xuc****@sina.com English
- 6	III Base services	Message Service	١q)ueu	New Queue		×		C Refresh	Get Endpoint Create Queue
æ	Virtual Private Cloud	Queue			* Queue Name 🔘 :	testQueue		(Singapore)		
-	Cloud Monitor	Topic		_	* Current Region :	Asia Pacific SE 1 (Singapore)		(alley)		
\$	Elastic IP Address	Log Management	Que	eue	Long-polling Wait Time (sec) 💿 :					
8	ApsaraDB for RDS	Help			Invisibility Timeout (sec) 🔘 :			te of ation/Last		
	Server Load Balancer			ueue	Maximum Message Size (bytes) 💿 :			dification		Action
	Elastic Compute Servi Security		Ξ M	lyQue	Message Retention Period (sec) 🍥 :			16-11-04 20:29 16-11-04 20:29	true	Modification Settings Delete Send Message Receive Message
) I	Domain Services				Message Delay (sec) 💿 :			16-11-04		
			sg	g-aliye	Enable Logging :			06:11 06:11 16-11-04 06:11	true	Modification Settings Delete Send Message Receive Message
						ок	Cancel			

SetQueueAttributes

After MyQueue is created successfully, set the attributes of MyQueue.

Click Modification settings in the action list to the right of MyQueue.

Modify attributes according to your demands on the dialog box displayed on the console, then click **OK**.

C-) Home	Products -		Modify Queue		×	rise D	ocumentation	xuc****@sina.com English
	Message Service	Que	Queue Name :	MyQueue			C Refresh	Get Endpoint Create Queue
	Queue		Long-polling Wait Time (sec) 🔘 :	0		l (Singapore) /alley)		
	Topic Log Management	Queue	Maximum Message Size (bytes) 🔘 :	65536				
	Help	Queue	Message Retention Period (sec) 💿 :	345600				
		Queu	Message Delay (sec) 💿 :	0	0	ation/Last dification		Action
Security Domain Services		MyQu	Invisibility Timeout (sec) 💿 : Creation Time 💿 :	30 2017-03-21 14:38:14	4: 01	16-11-04 20:29 16-11-04 20:29	true	Modification Settings Delete Send Message Receive Message
 Duman Services 		E MyQu	Last Modification Time 🔘 :	2017-03-21 14:38:14	4:	17-03-21 38:14	false	Modification Settings Delete
			Number of Active Messages 🔘 :	0		17-03-21 38:14		Receive Message
		sg-ali	Number of Inactive Messages 🎯 :	0	4:	16-11-04 :06:11 16-11-04	true	Modification Settings Delete Send Message
			Number of Delayed Messages 🔘 :	0	4:	:06:11		Receive Message
			Enable Logging :					
				Confirm Ca	incel			

GetQueueAttributes

After MyQueue is created successfully, obtain the queue attributes of MyQueue.

By default, basic queue attributes are displayed on the console. You can view them directly.

Products 🗸		(۹ 🔺	85 Billing M	anagement	Support	ICP I	Enterprise D	ocumentation	xuc****@sina.co	m English
Message Service	Queue List	China North	h 2 (Beijing)	China East 1 (Hangz	thou) Hong H	Kong China No	orth 1 (Qingdao)		\Im Refresh	Get Endpoint	Create Queue
Queue			2 (Shanghai)			Pacific NE 1 (To		fic SE 1 (Singapore)		
Topic		ASIA PACIFIC	SE 2 (Sydney)) EU Central 1 (Fra	inkiunt) Midd	ie East I (Dubai) US West 1 (5	incon valley)			
Log Management	Queue Query	MyQueue				Search					
Help	Queue Name		Message Life Cycle (sec)	Message Delay (sec)	Number of Active Messages 👻	Number of Inactive Messages 👻	Number of Delayed Messages 👻	Time of Creation/Last Modification	Logging Enabled		Action
=	MyQueue-161	104-142033	1800	5	0	0	0	2016-11-04 14:20:29 2016-11-04 14:20:29	true		gs Delete nd Message eceive Message
-	MyQueue		345600	0	1	0	0	2017-03-21 14:38:14 2017-03-21 14:38:14	false		gs Delete nd Message eceive Message

ListQueue

List all queues with a given prefix under an account.

Input the prefix in the Query Queue box, then click **Search**. All queues with the specified prefix are listed on the console.

Message Service	Queue List	China North	2 (Beijing)	China East 1 (Hangz	hou) Honç	g Kong China f	North 1 (Qingdao)		C Refresh	Get Endpoint	Create Queue
Queue			2 (Shanghai)	China South 1 (Sh		ia Pacific NE 1 (1		ific SE 1 (Singapore)			
Topic		Asia Pacific	SE 2 (Sydney)	EU Central 1 (Fra	nkfurt) Mid	ddle East 1 (Duba	ai) US West 1 (S	Silicon Valley)			
Log Management	Queue Query :	MyQu				Search					
Help	Queue Name		Message Life Cycle (sec)	Message Delay (sec)	Number of Active Messages 👻	Inactive	Number of Delayed Messages 👻	Time of Creation/Last Modification	Logging Enabled		Action
	MyQueue-161	104-142033	1800	5	0	0	0	2016-11-04 14:20:29 2016-11-04 14:20:29	true		ngs Delete end Message Receive Message
	MyQueue		345600	0	0	0	0	2017-03-21 14:38:14 2017-03-21 14:38:14	false		ngs Delete end Message Receive Message

DeleteQueue

After MyQueue is created successfully, delete MyQueue.

Click **Delete** to the right of **MyQueue** and click the **Delete** on dialog box to finish the deletion.

lessage Service Queue	corre	n tip: before de sponding queu est for the queu	e / theme to se	nd the reque	st pressure, ot	equest to the herwise the API	l (Singapore)	C Refresh	Get Endpoint Create Qu
Topic	Are y	ou sure you want	to delete this qu	eue?			(alley)		
Log Management Help	Queue				De	lete Cancel	1e of		
	Queue Name	Message Life Cycle (sec)	Message Delay (sec)	Active Messages 👻	Inactive Messages 👻	Delayed Messages 👻	Creation/Last Modification		
	MyQueue-161104-142033	1800	5	0	0	0	2016-11-04 14:20:29 2016-11-04 14:20:29	true	Modification Settings D Send Message Receive Mes
	MyQueue	345600	0	0	0	0	2017-03-21 14:38:14 2017-03-21 14:38:14	false	Modification Settings D Send Message Receive Mes
	sg-allyun-msc	86400	0	0	0	0	2016-11-04 14:06:11 2016-11-04 14:06:11	true	Modification Settings D Send Message Receive Mes

SendMessage

After MyQueue is created successfully, send a message to MyQueue.

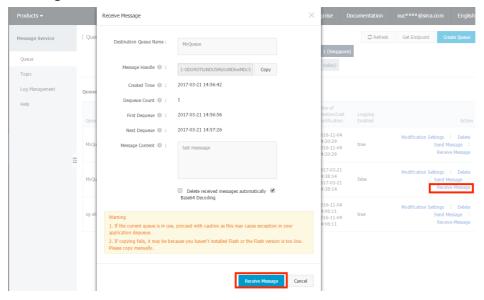
Click **Send Message** to the right of MyQueue and input the message in the displayed dialog box, then click **Send message**.

Products -	- (C À 85 F	illing Management Support ICP	Enterp	nse Doo	cumentation	xuc****@sina.com Engle
Message Service	Queue	Sena Hessage				C Refresh	Get Endpoint Create Queue
Queue		Destination Queue Name : MyQ	ueue		t (Singapore)		
Topic		Message Delay (sec) 💿 : 0			/alley)		
Log Management	Queue	* Message Content 💿 : test r	iesssage				
Help	Queue				ne of ation/Last dification		Acti
	MyQue	Warning: If the current queue is in use, application dequeue.	proceed with caution as this may cause exception	in your	16-11-04 20:29 16-11-04 20:29	true	Modification Settings Deleti Send Message Receive Message
	MyQue		Send Message	Cancel	17-03-21 38:14 17-03-21 38:14	false	Modification Settings Delet Send Message Receive Message

ReceiveMessage

After **MyQueue** is created successfully, get the message from **MyQueue** and compare it with the message you sent to **MyQueue**. Confirm the consistency between the 2 messages and record the returned ReceiptHandle.

Click **Receive message** to the right of **MyQueue** to check attributes of the received message displayed in dialog box.



DeleteMessage

After verifying that the message is correct, use the ReceiptHandle you obtained in the previous step to delete the received message.

In the Receive Message dialog box, select **Auto delete received messages**, and click **Receive message**. The current message is deleted, and the next message is obtained.

Products 👻		Receive Message		× prise	Documentation	xuc****@sina.com Engli
Message Service	Que	Destination Queue Name :	МуQueue	1 (Singa	C Refresh	Get Endpoint Create Queue
Queue Topic		Message Handle 🎯 :	1-ODU4OTkzNDU5My0xNDkwMDgv Copy	Valley)		
Log Management Help	Queue	Created Time 💿 : Dequeue Count 📀 :	2017-03-21 14:56:42	me of		
	Queu	First Dequeue 💿 :	2017-03-21 14:56:56 2017-03-21 15:10:29	reation/La odificatio		Actio
	MyQu	Message Content 💿 :	test messsage	016-11-0 4:20:29 016-11-0 4:20:29		Modification Settings Delet Send Message Receive Messag
Ξ	MyQu		Delete received messages automatically Base64 Decoding	017-03-2 4:38:14 017-03-2 4:38:14	false	Modification Settings Delet Send Message Receive Messag
	sg-alr	Warning 1. If the current queue is in use application dequeue.	proceed with caution as this may cause exception in your	016-11-0 4:06:11 016-11-0 4:06:11	true	Modification Settings Delet Send Message Receive Messag
			cause you haven't installed Flash or the Flash version is too lo	w.		
			Receive Message Ca	ancel		

Topic Operations

Create Topic

To create a topic named **MyTopic** and list it as following steps.

Log in the console of Message Service(skip it if you have already logged in the console).

Click **Topic** at the left side bar.

Click Create Topic on the top right corner.

c	Home	Produ	icts 🗸		۹	Å 76	Billing Manag	ement	Support	ICP	Enterprise	Documentation	xuc****@sina.co	m English
=	Message Service		Topic List	China North 2 (Beijing) China East 2 (Shanohai)	China East 1	(Hangzhou) 1 (Shenzhen)		rth 1 (Qing				C Refresh	Get Endpoint	Create Topic
۵	Queue			US West 1 (Silicon Valley)		1 (Snenznen)	Asia Pacific NE 1 (10	kyo) Asia	a Pacific SE 1 (3	Singapore)				
-	Topic			US West 1 (Slitton Valley	,									
\$	Log Management		Reminder: F	om 2016-09-26 topic mod	els will incur o	fficial charges.	Topic creation may inc	ur costs. Foi	r details, see pr	oduct price	5.			
8	Help		Tips: When	total topics exceed 1000,	only the first 1	000 topics will	be shown alphabeticall	y under topi	ic name. You c	an search fo	r a specific topic t	oy its name, or obtain all t	opics through SDK.	
4			Topic Name	Only prefix search is	supported. Fu	zzy search	Search							
		Ξ	Topic Name	Message Cour	nt •	Maximum M	lessage Size (bytes) •		Messa	ge Retentio	Period (sec) •	Logg	ng Enabled 🕈	Action
*														
ø							Could not f	ind any re	ecord that n	net the c	ondition.			
×														

Input topic name **Mytopic** and other attributes.

Click **Ok** to create it.

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=	Message Service		Topic List	China North 2 (B	Create Topic		×		C Refresh	Get Endpoint	Create Topic
۵	Queue			China East 2 (Sh	* Topic Name 🔘 :	MyTopic					
-	Topic				* Current Region :	Asia Pacific SE 1 (Singapore)					
\$	Log Management		Reminder: P	rom 2016-09-26 t	Maximum Message Size (bytes) 0 :	65535					
8	Help		Tips: When	total topics excee	Enable Logging :			topic by its	s name, or obtain all f	opics through SDK.	
*			Topic Name	Only prefix							
=		-	Topic Name	• Mest		OK Cano	el.	() •		ing Enabled 🕈	Action
ф.							_	ļ			
ø					1	Could not find any record that met the co	ndition.				
×											

Delete a topic

Delete a topic

To delete the topic by following two steps:

Find the topic to delete and Click the **Delete** button in the right action list of this topic.

Message Service		Topic List	China North 2 (Beljin	g) China East 1 (Hangzhou) H	long Kong China North 1 (Qingdao)		5	efresh Get Endpoint	Create Topic
Queue			China East 2 (Shang	nai) China South 1 (Shenzhen)	Asia Pacific NE 1 (Tokyo) Asia Pac	ific SE 1 (Singapore)			
Topic			US West 1 (Silicon V	alley)					
Log Management		Reminder: F	om 2016-09-26 tonic	models will incur official charges. T	l'opic creation may incur costs. For del	ails, see product prices.			
					e shown alphabetically under topic na		a specific table by its name, or obt	in all tonics through CDK	
Help						ine. Tou can search for	a specific topic by its name, or obta	in all topics through SDK.	
		Topic Name	Only prefix sear	ch is supported. Fuzzy search	Search				
	8	Topic Name	Message Count	Maximum Message Size (bytes) •	Message Retention Period (sec) •	Logging Enabled •			Action
		MyTopic	0	65535	86400	false	Configuration Publish Messag	e Delete Get Address	Subscription List
							Total: 1 item(s) , Per P	age: 20 item(s) « <	1 > »

Clicking Delete.

				rompt			×	0.1		
Message Service		Topic List	China North 2 (B	Mana tini hefere delet	ting the queue / topic, please sto	n the request to the		C Refres	h Get Endpoint	Create Topi
Oueue			China East 2 (Sh	corresponding queue	/ theme to send the request press / theme instance will still incur c	sure, otherwise the AP	ч			
Topic			US West 1 (Silic	Are you sure you want to						
Log Management		Reminder: Fr	om 2016-09-26 t							
Help		Tips: When t	total topics excee			Delete Canco	el topic by its n	ame, or obtain al	ll topics through SDK.	
		Topic Name	Only prefix sear	ch is supported. Fuzzy search	earch		_			
	<u>.</u>	Topic Name •	Message Count •	Maximum Message Size (bytes) •	Message Retention Period (sec) $ullet$	Logging Enabled •				Ac
			0	65535	86400	false			Delete Get Address	

Set topic properties

Set topic properties

To set the properties of a topic by following setps:

Find the topic and click on the button **Configuration** in the action list of this topic.

Message Service	Topic List	China North 2 (Beijin) China East 1 (Hangzhou) Ho	ong Kong China North 1 (Qingdao)			C Refresh	Get Endpoint	Create Topic	
Queue		China East 2 (Shangh	ai) China South 1 (Shenzhen)	Asia Pacific NE 1 (Tokyo) Asia Pac	ific SE 1 (Singapore)					
Topic		US West 1 (Silicon Va	lley)							
Log Management	Reminder: F	rom 2016-09-26 topic (nodels will incur official charges. Ti	opic creation may incur costs. For del	ails, see product prices.					
Help	Tips: When	ips: When total topics exceed 1000, only the first 1000 topics will be shown alphabetically under topic name. You can search for a specific topic by its name, or obtain all topics through SDK.								
	Topic Name	Only prefix search	h is supported. Fuzzy search S	earch						
-	Topic Name	Message Count	Maximum Message Size (bytes) •	Message Retention Period (sec) $ullet$	Logging Enabled •				Action	
	MyTopic	0	65535	86400	false	Configuration Pub	lish Message De	lete Get Address	Subscription List	
						Total: 1 item	(s) , Per Page: 20	item(s) « ‹	1 > >	

Home				Q 🛕 76 B	illing Management Support ICP	Enterp	prise Documentation xuc****@sina.com English
Message Service		Topic List	China North 2 (B	Configuration		\times	CRefresh Get Endpoint Create Topic
Queue			China East 2 (Sh	Topic Name :	МуТоріс		
Topic			US West 1 (Silic	Region :	Asia Pacific SE 1 (Singapore)		
Log Management		Reminder: F	From 2016-09-26 t	Maximum Message Size (bytes) 🔘 :	65535	1	
Help		Tips: When	total topics excee	Message Retention Period (sec) 🏾 :	86400		topic by its name, or obtain all topics through SDK.
		Topic Name	Only prefix	Create Time 🎯 :	2017-03-19 13:24:20		
	-		 Message Cour 	Last Modification Time 💿 :	2017-03-19 13:24:20		Action
		МуТоріс	0	Enable Logging :			uration Publish Message Delete Get Address Subscription List Total: 1 item(s) , Per Page: 20 item(s)
					Confirm	ancel	

Change the properties in the pop-up dialog and click on Confirm.

Get the subscription list

Get the subscription list

To get the subscription list of a topic (every topic includes one or more subscription) in following steps:

Find the topic **MyTopic** in the topic list, then click on **Subscription List** of the topic in the action list:

Message Service		Topic List	China North 2 (Beijin	g) China East 1 (Hangzhou)	Hong Kong China North 1	1 (Qingdao)		C Refresh Get Endpoint	Create Topic
Queue			China East 2 (Shangl	nai) China South 1 (Shenzher	n) Asia Pacific NE 1 (Tokyo)	Asia Pacific SE 1 (Singapore)			
			US West 1 (Silicon V	alley)					
Topic									
Log Management		Reminder: Fr	om 2016-09-26 topic	models will incur official charge	es. Topic creation may incur co	osts. For details, see product prices.			
Help		Tips: When	total topics exceed 10	00, only the first 1000 topics w	ill be shown alphabetically un	der topic name. You can search for	a specific topic by its name,	or obtain all topics through SDK.	
		Topic Name	Only prefix sear	ch is supported. Fuzzy search	Search				
	Ξ	Topic Name	Message Count •	Maximum Message Size (byte	s) • Message Retention Peri	od (sec) • Logging Enabled •			Action
		MyTopic	0	65535	86400	false	Configuration Publish	Message Delete Get Address	Subscription List
							Total: 1 item(s)	, Per Page: 20 item(s) « <	1 > >
Message Service		г эшэстриог	LINE T BACK LO I L	pir. List				V Reinsen Gel Engyon	R Subschoe
Message Service									
-					ubscriptions will be shown alp	habetically under subscription name	e. Search for a specific subsc	Cription by name or obtain all subsc	
Queue		Tips: When	total subscriptions exc			habetically under subscription name	e. Search for a specific subsc		
Queue Topic		Tips: When SDK.	total subscriptions exc	eed 1000, only the first 1000 s		habetically under subscription name Notify Content Format •	e. Search for a specific subsc Push Type		
Queue Topic Log Management		Tips: When SDK.	total subscriptions exc Name	eed 1000, only the first 1000 s	arch Search				riptions using the Action
Queue Topic Log Management	11	Tips: When SDK. Subscription	Name Conly pret Name From ht	eed 1000, only the first 1000 s ix search is supported. Fuzzy se dpoint •	sarch Search Notify Strategy♦	Notify Content Format •	Push Type	cription by name or obtain all subsc	riptions using the Action slete Get Address
Queue Topic Log Management		Tips: When SDK. Subscription Subscription I MySubscription	Name Conly pret Name From ht	eed 1000, only the first 1000 s ix search is supported. Fuzzy se dpoint • p://mycallback.xxx.com/	arch Search Notify Strategy • BACKOFF_RETRY	Notify Content Format	Push Type HTTP HTTP	cription by name or obtain all subsc	riptions using the Action slete Get Address

Search the subscription with prefix of its name such as My.

Message Service	Subscription List t Ba	ck to Topic List		C Refresh	Get Endpoint	Subscribe		
Queue	The state of the last	ions exceed 1000, only the first 1000 su					1	
Topic	SDK.	ions exceed 1000, only the first 1000 su	oscriptions will be snown alpha	abetically under subscription name.	Search for a specific subscrip	don by name or	obtain all subscriptio	ons using the
Log Management	Subscription Name 🔻 🛛	Îy	Search					
Help	Subscription Name •	Endpoint •	Notify Strategy •	Notify Content Format •	Push Type			Action
	MySubscriiption	http://mycallback.xxx.com/	BACKOFF_RETRY	XML	нттр	Con	figuration Delete	Get Address
3					Total: 1 item(s) .	Per Page: 20 item	(\$) « <	1 > »

Create a subscription

Create a subscription

To create a subscription named **MySubscription** for the topic **MyTopic** by following steps:

Click the **Subscription List** on the action list of **MyTopic**.

Message Service	Topic List			ong Kong China North 1 (Qingdao)		C Refresir Gevenuponic	y. X Cleate topic
Queue		China East 2 (Shang		Asia Pacific NE 1 (Tokyo) Asia Pac	ific SE 1 (Singapore)		
Торіс		US West 1 (Silicon V	alley)				
Log Management	Reminder:	From 2016-09-26 topic	models will incur official charges. T	opic creation may incur costs. For det	ails, see product prices.		
Help	Tips: Whe	total topics exceed 10	00, only the first 1000 topics will b	e shown alphabetically under topic na	me. You can search for	r a specific topic by its name, or obtain all topics through SDK.	
	Topic Name	• • Only prefix sear	ch is supported. Fuzzy search	earch			
	Topic Name	Message Count	Maximum Message Size (bytes) •	Message Retention Period (sec) •	Logging Enabled •		Action
	МуТоріс	0	65535	86400	false	Configuration Publish Message Delete Get Address	Subscription List
						Total: 1 item(s) , Per Page: 20 item(s) « <	1 > >

Click the button **Subscribe** at the top right corner to generate a dialog box.

Message Service	Subscription List t Back to	Topic List			C Refresh Get Endpoint	Subscribe
Queue						
Topic	Tips: When total subscriptions SDK.	exceed 1000, only the first 1000 sub	scriptions will be shown alphabetica	ly under subscription name. Search for a specifi	subscription by name or obtain all subscriptio	ins using the
Log Management	Subscription Name	refix search is supported. Fuzzy searc	th Search			
Help	Subscription Name •	Endpoint •	Notify Strategy •	Notify Content Format •	Push Type	Action
			 Could not find any re 	cord that met the condition.		

Input the subscription name **MySubscription** and set other attributes such as receiving http endpoint, retry strategies, format of message, message filter tag etc. Then Click **Ok**.

Home	Products -	Q 🔺 🗖	Billing Management Support ICP	Enterprise	Documentation xuc****@sina.com English
Message Service	Subscription List t Back	Subscribe		×	C Refresh Get Endpoint Subscribe
Queue		Topic Name :	МуТоріс		
Торіс	Tips: When total subscription SDK.	Push Type :	HTTP	for a	specific subscription by name or obtain all subscriptions using the
Log Management	Subscription Name Only	* Subscription Name :	MySubcription		
Help	Subscription Name •	* Endpoint 🎯 :	http://mycallback.xxxx.com/		Push Type Action
	Ξ	Message Filter Label :	Message filtering cannot contain more than 16 characters. A label can be set up first.		
		* Notify Strategy 🔘 :	● BACKOFF_RETRY ◎ ○ DECAY_RETRY ◎		
		* Notify Content Format 🔘 :	SIMPLIFIED ◎ ○ JSON ⑧ XML ◎		
			OK	ncel	

Delete a subscripton

Delete a subscripton

To delete the subscription by following steps:

Enter the subscription list of a topic and find the subscription to delete.

Message Service	Subscription List	t Back to Topic List		C Refresh	Get Endpoint	Subscribe		
Queue								
Topic	Tips: When total subs SDK.	criptions exceed 1000, only the first 1000 sub	scriptions will be shown alph	abetically under subscription name.	Search for a specific subscrip	ition by name or c	btain all subscriptio	ons using the
Log Management	Subscription Name	Only prefix search is supported. Fuzzy search	h Search					
Help	Subscription Name •	Endpoint •	Notify Strategy 🕈	Notify Content Format •	Push Type			Action
	MySubscription	http://mycallback.xxx.com/	BACKOFF_RETRY	XML	HTTP	Conf	iguration Delete	Get Address
					Total: 1 item(s) ,	Per Page: 20 item	s) « «	1 > »

Click **Delete** button in the action list of subscription and confirm to delete in the pop-up dialog.

Home	Produ	cts 🕶	Q 🛓 76	Billing Management	Support ICP		mentation xuc****@sina.com	English
Message Service		Subscription List 🔹 Back	Prompt Are you sure you want to	delete the subscription?		×	C Refresh Get Endpoint	Subscribe
Queue		Tips: When total subscription				the second second	scription by name or obtain all subscriptions	units at the
Topic		SDK.			Delete Cance		scription by name or obtain all subscriptions	using the
Log Management		Subscription Name						
Help		Subscription Name	Endpoint •	Notify Strategy •	Notify Content Format •	Push Type		Action
		MySubscription	http://mycallback.xxx.com/	BACKOFF_RETRY	XML	HTTP	Configuration Delete	Get Address
	÷					Total: 1 item(s	i), Per Page: 20 item(s) < < 1	> >

Set subscription properties

Set subscription properties

To set the properties of a subscription by following steps:

Enter the subscription list of a topic, and then click **Configuration** button.

Message Service		Subscription List t Ba	ack to Topic List				C Refresh	Get Endpoint	Subscribe
Queue									
Topic		Tips: When total subscript SDK.	tions exceed 1000, only the first 1000 subscri	ptions will be shown alpha	abetically under subscription name	e. Search for a specific subscrip	tion by name or	obtain all subscripti	ons using the
Log Management		Subscription Name 🔻	Only prefix search is supported. Fuzzy search	Search					
Help		Subscription Name	Endpoint 🕈	Notify Strategy •	Notify Content Format •	Push Type			Action
		MySubscription	http://mycallback.xxx.com/	BACKOFF_RETRY	XML	HTTP	Con	figuration Delete	Get Address
	Ξ	testSubscription	http://mycallback.xxx.com	BACKOFF_RETRY	XML	HTTP	Con	figuration Delete	Get Address
						Total: 2 item(s) ,	Per Page: 20 iten	n(s) « <	1 > >

Change the properties in the pop-up dialog and click on **Confirm**.

Home			Q 🛕 🔽 B	illing Management Support ICP	Enterr	orise Documentation		
Message Service		Subscription List 🛨 Back	Configuration		×	© Refi	resh Get Endpoint	Subscribe
Queue			Topic Name :	МуТоріс				
Topic		Tips: When total subscription SDK.	Subscription Name :	MySubscription		for a specific subscription by na	me or obtain all subscriptior	ns using the
Log Management		Subscription Name Only	Endpoint 💿 :	http://mycallback.xxx.com/				
Help		Subscription Name •	Notify Strategy 💿 :	BACKOFF_RETRY		ush Type		Action
		MySubscription		DECAY_RETRY		HTTP	Configuration Delete	Get Address
	-	testSubscription	Notify Content Format 🔘 :	XML		нттр	Configuration Delete	Get Address
			Creation Time 💿 :	2017-03-19 14:10:18		Total: 2 item(s) , Per Page: 2	20 item(s) 🤘 « 🖂 1	> »
			Last Modified Time 🔘 :	2017-03-19 14:10:18				
				Confirm	Cancel	J		

Publish a message

Publish a message

To publish a message to topic by following steps:

Find the topic and click **Publish Message** in the action list of this topic.

Message Service	Topic List	China North 2 (Beijing)	China East 1 (Hangzhou)	Hong Kong	China North 1 (Qing	dao)		C Refresh	Get Endpoint	Create Topic
		China East 2 (Shanghai) China South 1 (Shenzhen)) Asia Pacifio	: NE 1 (Tokyo) Asia	Pacific SE 1 (Singapore)				
Queue		US West 1 (Silicon Valle	ey)							
Topic										
Log Management	Reminder: I	From 2016-09-26 topic m	odels will incur official charges	. Topic creatio	in may incur costs. Fo	r details, see product prices				
Help	Tips: When	total topics exceed 1000	, only the first 1000 topics wil	l be shown alp	habetically under top	c name. You can search fo	r a specific topic by its name	, or obtain all topi	s through SDK.	
	Topic Name	Only prefix search	is supported. Fuzzy search	Search						
:	Topic Name	Message Count	Maximum Message Size (bytes)	 Message 	Retention Period (see) • Logging Enabled •				Action
	МуТоріс	0	65535	86400		false	Configuration Publis	Message Delet	e Get Address	Subscription List
							Total: 1 item(s)	, Per Page: 20 ite	m(s) « <	$1 \rightarrow >$

Input the content of message and set the push type filter label(optional) then click **Send Message**.

Home	Products -	٩	🌲 <mark>78</mark>	Billing Management	Support	ICP	Enterprise	Documentation	xuc****@sina.com	English
Message Service	Release Message 🔹 Back to	Topic List								
Queue	Warning: If the current Topic is	in use, proceed with cau	tion as this ma	ay cause exception in your app	lication.					
Topic Log Management	Topic Name :	МуТоріс								
Help	* Message Content 🎯 :	test message								
	=									
	Push Type :	☑ Queue ☑ HTTP (Ali SMS)Email 🔲 移动推送						
	Message Filter Label :									
		Message filtering canno be set up first.	t contain more	e than 16 characters. A label c	n					
		Send Message	Cancel							

Access By RAM User

RAM operations

RAM operations

Create RAM User

Log on to the Alibaba Cloud console, then click **Resource Access Management** from the left-side navigation bar to open the RAM console.

C) Home	Products *	٩	قع 🖡	Billing Management	Support	ICP	Enterprise	Documentation	xuc****@sina.com	English
Recently visit Message Service E-HapReduce	Base services Security Domain Services	Elastic Computing ApsaraDB Starage & CDN Networking Analysis Cloud Communication Monitor and Management Application Services		nitor Access Management gement Service						
Table Store		You have (26) users(s)		You h 🔺 group(s)		You h	ave (3) custon	Y	ou have (11) role(s)	

Click **Users** on the RAM console.

Click New user on the User Management page.

Input a login name and other details, tick on **Automatically generate an Access key for this User**, then click **OK**.

Products 🗸		۹	🛕 📧 Billing Management	Support		Interp	rise Documentatio	on xuc****@sina.c	om Englis
RAM	User	Create User				×		New User	\mathbb{C} Refresh
Dashboard Users	Logi	* Login Name :	mnsRamUser Names must be 1–64 characters long. They may only contain lowercase letters a-z, numbers 0-9, and these special						
Groups			characters: (@) (.) (_) (-)				ation Time		Operation
Policies	testra	n Display Name :	nihaol Display names must contain 1-12				16-09-01 15:53:49	Manage Authorizatio	n Delete Join Group
Roles Settings	xuny		characters. They may include Chinese characters, lowercase letters a-z, numbers 0-9, and these special characters: (@) (.)() (-).				17-03-01 16:47:15	Manage Authorizatio	n Delete Join Group
	acs_ acs_						17-03-21 05:52:34	Manage Authorizatio	n i Delete Join Group
	testb	as	Automatically generate an Access key for this user.	1			17-03-01 16:50:00	Manage Authorizatio	n Delete Join Group
	xiaoo 測试			-			16-10-20 10:12:44	Manage Authorizatio	n i Delete Join Group
	wang	v		ок	Cancel		16-09-14 15:54:55	Manage Authorizatio	n Delete Join Group
					т	otal: 26	5 item(s) , Per Page: 20 ite	em(s) « < 1	2 > »

Click Save Access Key Information to download the AK file.

Products -		Q 🛕 😡 Billing Management Support ICP	Enter	rise Documentatio	n xuc****@sina.com	English
RAM	User I	Create User	×		New User	C Refresh
Dashboard		This is the only time a user's Access key can be downloaded. Save the Access key now.				
Users Groups	Login	✓ Access key successfully created.		eation Time		Operation
Policies	testran			16-09-01 15:53:49	Manage Authorization	Delete Join Group
Roles Settinas	xuny	Access Key Details	~	17-03-01 16:47:15	Manage Authorization	Delete Join Group
1	mnsRa mnsR4	Save Access Key Information	n	17-03-21 16:05:03	Manage Authorization	Delete Join Group
		n_account_c7b8e3bd1946e4 n_account n_account	2	017-03-21 05:52:34	Manage Authorization	Delete Join Group
					Manage I Authorization	Dalata

Create RAM Policy

Click through **policies > custom policy > New Authorization Policy** on the RAM console.

Select **Blank Template** in the pop-up dialog.

Edit the policy and fill in the Remarks, then click New Authorization Policy.

	۵	🔺 🚯 Billing Management S	upport ICP		ocumentation		
RAM	Create Authorization Policy Step 1: Select an authorizatio	on policy 🔪 Step 2: Edit permissions and submit.	Policy creation c	omplete.	Ne	w Authorization Policy	C Refresh
Dashboard Users Groups	* Authorization Policy Name :	adminPolicyfortNIS Names must be 1-128 characters long. They may only A-Z, numbers 0-9, and hyphens.	γ contain the letters				
Policies	Remarks :	admin policy for test			ferences		
Roles Settings	Policy Content :	1 ["Version": "1"] 5 testenent: "1"] 4 [Steating: Maller", 5 [Steating: Maller", 6 [Steating: Maller", 7 [Steating: Maller", 8] 1]			n(s) , Per Page: 2	View Modify 0 item(s)	
	-	Authorization Policy Format Authorization Policy FAQ Previous	New Authorization Policy	y Cancel			

A sample policy for Message Service:

```
{
  "Statement": [
  {
  "Action": "mns:*",
  "Effect": "Allow",
  "Resource": "acs:mns:*:*:*"
  }
 ],
 "Version": "1"
}
```

Please refer to the RAM document for more instructions of the policy format.

Authorize RAM User With Policy

Click Users on the left-side bar on the RAM console.

Find the RAM user, click Authorization in the right action list.

Find the policy in pop-up dialog, and select it to right list, then click OK.

Products 🗸	Q 🛕	85 Billin	g Manager	ment Support ICP E		ocumentation x	uc****@sina.com	Englist
RAM	Edit Individual Authorization Policy				×	-	New User	C Refresh
Dashboard	After adding an authorization policy, this policy cannot be added more than once.	account will have	the permiss	ions granted by that policy. The same aut	nonzation			
Users	Available authorization policy names	Туре		Selected authorization policy name	Туре			
Groups	admin	٩		adminPolicyforMNS admin policy for t	Custom			Operation
Policies	AdministratorAccess Provides full acce	System		aumin policy for t		Mana	age Authorization	l Delete Join Group
Roles			>					
Settings			4					
				ок	Close			
			_		_	1		

Test to access MNS by RAM user. Here is python SDK for example:

- i. Download the latest version of Python SDK.
- ii. Set sample.cfg Config file with AK() and the endpoint.
- iii. Run **\$python sample.py**.
- iv. The RAM user can access the Message Service if there is no error.

Policy Samples

Sample 1: Add limitation on source IP for accessing Message Service.

Message Service allows access from 42.120.88.0/24 and 42.120.66.0/24.

```
{
    "Statement": [
    {
        "Action": "mns:*",
        "Effect": "Allow",
        "Resource": "acs:mns:*:*:*"
    }
    ],
    "Version": "1",
    "Condition":{
        "IpAddress": {
        "acs:SourceIp": ["42.120.88.0/24", "42.120.66.0/24"]
    }
}
```

Sample2: Deny the source IP.

Message Service denies any operations which are not from source IP 42.120.88.0/24.

```
{
    "Statement": [
    {
        "Action": "mns:*",
        "Effect": "Deny",
        "Resource": "acs:mns:*:*:*"
    }
    ],
        "Version": "1",
        "Condition":{
        "NotIpAddress": {
        "acs:SourceIp": ["42.120.88.0/24"]
    }
}
```

Sample3: Readonly for RAM user.

Only query queue/topic operations are allowed.

```
{
  "Version": "1",
  "Statement": [
  {
  "Effect": "Allow",
  "Action": [
  "mns:ListQueue",
  "mns:GetQueueAttributes",
  "mns:GetTopicAttributes"
],
  "Resource": "acs:mns:*:*:*"
}
]
```

APIs to Policy Action Mapping

Message Service API	Policy Action	Resource
ListQueue	mns:ListQueue	acs:mns:\$region:\$accountid:/ queues
CreateQueue	mns:CreateQueue	acs:mns:\$region:\$accountid:/ queues/\$queueName
DeleteQueue	mns:DeleteQueue	acs:mns:\$region:\$accountid:/ queues/\$queueName
SetQueueAttributes	mns:SetQueueAttributes	acs:mns:\$region:\$accountid:/ queues/\$queueName
GetQueueAttributes	mns:GetQueueAttributes	acs:mns:\$region:\$accountid:/

		queues/\$queueName
SendMessage/BatchSendMe ssage	mns:SendMessage	acs:mns:\$region:\$accountid:/ queues/\$queueName/messa ges
ReceiveMessage/BatchReceiv eMessage	mns:ReceiveMessage	acs:mns:\$region:\$accountid:/ queues/\$queueName/messa ges
DeleteMessage	mns:DeleteMessage	acs:mns:\$region:\$accountid:/ queues/\$queueName/messa ges
PeekMessage/BatchPeekMes sage	mns:PeekMessage	acs:mns:\$region:\$accountid:/ queues/\$queueName/messa ges
ChangeMessageVisibility	mns:ChangeMessageVisibilit y	acs:mns:\$region:\$accountid:/ queues/\$queueName/messs ages
ListTopic	mns:ListTopic	acs:mns:\$region:\$accountid:/ topics
CreateTopic	mns:CreateTopic	acs:mns:\$region:\$accountid:, topics/\$topicName
DeleteTopic	mns:DeleteTopic	acs:mns:\$region:\$accountid:, topics/\$topicName
SetTopicAttributes	mns:SetTopicAttributes	acs:mns:\$region:\$accountid:, topics/\$topicName
GetTopicAttributes	mns:GetTopicAttributes	acs:mns:\$region:\$accountid:/ topics/\$topicName
ListSubscriptionByTopic	mns:ListSubscriptionByTopic	acs:mns:\$region:\$accountid:, topics/\$topicName/subscrip ions
Subscribe	mns:Subscribe	acs:mns:\$region:\$accountid:, topics/\$topicName/subscrip ions/\$subscriptionName
Unsubscribe	mns:Unsubscribe	acs:mns:\$region:\$accountid:, topics/\$topicName/subscrip ions/\$subscriptionName
SetSubscriptionAttributes	mns:SetSubscriptionAttribute s	acs:mns:\$region:\$accountid:/ topics/\$topicName/subscript ions/\$subscriptionName
GetSubscriptionAttributes	mns:GetSubscriptionAttribut es	acs:mns:\$region:\$accountid:, topics/\$topicName/subscrip ions/\$subscriptionName
PublishMessage	mns:PublishMessage	acs:mns:\$region:\$accountid:, topics/\$topicName/message s