ApsaraDB for Memcache

Getting Started

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Client

Any clients compatible with Memcached protocol can access to ApsaraDB for memcache service. Each Memcached client has its own features, and users can select any memcached clients supporting SASL and Memcached Binary Protocol according to application features. The official website of Memcache has also introduced a lot of clients for users:
https://code.google.com/p/memcached/wiki/Clients In practice, we find the following memcache clients work smoothly in the interaction with the ApsaraDB for memcache, and they are recommended to the users:

Java: Spymemcached

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PHP: memcached

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C

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C#/.NET: EnyimMemcached

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Python

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ApsaraDB for memcache ApsaraDB for memcached is memory-based cache service, it supports high speed access of mass small data. ApsaraDB for memcache can greatly relieve the pressure on backend storage, improving the response speed of websites or applications. ApsaraDB for memcache supports the data structure of Key-Value, and all clients compatible with the Memcached protocol can communicate with ApsaraDB for memcache. ApsaraDB for memcache supports the out-of-the-box way for rapid deployment. For dynamic Web and APP applications, the pressure on the database can be relieved by cache service so as to improve the overall response speed of websites. As with local MemCache, ApsaraDB for memcache is compatible with the Memcached protocol and user environment, and can be directly used for ApsaraDB for memcache, and the difference is that its hardware and data are deployed in the cloud, and complete infrastructure, network security assurance and system maintenance service are available. All these services do not need investment, and have to be paid according to usage. Product features ApsaraDB for memcache has the following features: ● Excellent performance. Cache data are stored in memory, and data access can be returned quickly. ● Reliable service. When a server goes down, the cluster will quickly restore service, and service can be restored after current clients of users are reconnected automatically. ● Security assurance. ApsaraDB for memcache only supports ECS access, and IP address of the origin server can be restricted to avoid outside attack. ● Elastic expansion. When the business scope changes, users can modify the configuration of ApsaraDB for memcache instance at any time, the ApsaraDB for memcache instance will not stop the service during configuration change, and it is not necessary to modify your client program. ● Management transparency. ApsaraDB for memcache is an out-of-the-box service, the ApsaraDB for memcache team of Aliyun is responsible for management of ApsaraDB for memcache products, including routine maintenance, software and hardware fault handling and patch update, to let you focus on guaranteeing healthy and effective services. ● Compatibility. ApsaraDB for memcache is compatible with memcache binary protocol, and can be used by all clients (binary SASL) conforming to the protocol.

Protocols and operations supported by the ApsaraDB for memcached

Any clients compatible with Memcached protocol can access to ApsaraDB for memcached, and users can select any Memcached clients supporting SASL and Memcached Binary Protocol according to their application features.

Protocol

For specific description of the Memcached Binary Protocol (binary protocol), please refer to: https://code.google.com/p/memcached/wiki/BinaryProtocolRevamped For specific description of the SASL authentication protocol, please refer to: https://code.google.com/p/memcached/wiki/SASLAuthProtocol

Operation

ApsaraDB for memcache supports the following command operations.

Operation code	Operating command	Remarks
0x00	Get	
0x01	Set	
0x02	Add	
0x03	Replace	
0x04	Delete	
0x05	Increment	
0x06	Decrement	
0x07	Quit	
0x08	Flush	The time accuracy of ApsaraDB for memcache is at second (s) level.
0x09	GetQ	
0x0a	No-op	
0x0b	Version	
0x0c	GetK	
0x0d	GetKQ	
0x0e	Append	
0x0f	Prepend	
0x10	Stat	Not supported
0x11	SetQ	
0x12	AddQ	
0x13	ReplaceQ	
0x14	DeleteQ	
0x15	IncrementQ	
0x16	DecrementQ	
0x17	QuitQ	
0x18	FlushQ	
0x19	AppendQ	
0x1a	PrependQ	
0x1b	Verbosity	Not supported

0x1c	Touch	
0x1d	GAT	
0x1e	GATQ	
0x20	SASLlistmechs	
0x21	SASLAuth	
0x22	SASLStep	