



APUSIC
固若长城
睿比世界

Console User Manual

Apusic In-Memory Data Cache

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1 Preface

This document is the user manual for the Apusic In-Memory Data Cache (AMDC) V2.0.6 console product, detailing the features, configuration methods, and management operations of the AMDC Web console.

*This document is based on the current `amdc-console` code and the actual deployment environment (`http://172.17.47.213:3001/`), using the **AMDC administrator** role for screenshots and feature verification; the original screenshots and text are retained, with only path descriptions that do not match the actual menus adjusted. Other roles (system administrator, security administrator, audit administrator, tenant administrator) may have different menu scopes; please refer to the actual logged-in role. If any images differ from the current interface, see the "List of Images to Be Confirmed" at the end of this document.*

1.1 Target Audience

This document is intended for AMDC product operations engineers, IT system operations engineers, development engineers, and other personnel.

1.2 Related Documentation

For more information about AMDC V2.0.6, please refer to the following AMDC V2.0.6 product manual documentation set:

No.	Document	Description
1	Apusic In-Memory Data Cache V2.0.6 Quick Start Guide	A brief introduction on how to quickly get started with AMDC.
2	Apusic In-Memory Data Cache V2.0.6 Installation Guide	Detailed introduction on how to install AMDC on various operating systems, AMDC service start/stop operations, and the product registration process.
3	Apusic In-Memory Data Cache V2.0.6 Cache Core User Manual	Detailed introduction on how to use, configure, and manage AMDC features and supporting tools.
4	Apusic In-Memory Data Cache V2.0.6 Console User Manual	Detailed instructions on using and operating AMDC console features.
5	Apusic In-Memory Data Cache V2.0.6 Development Guide	Detailed instructions for developing AMDC client applications using various programming languages.
6	Apusic In-Memory Data Cache V2.0.6 Migration Guide	Detailed instructions for migrating AMDC from historical versions to V2.0.6, as well as migrating from Redis to AMDC.

7	Apusic In-Memory Data Cache V2.0.6 Operations Guide	Detailed instructions for AMDC monitoring, operations, security hardening, and other operational procedures.
8	Apusic In-Memory Data Cache V2.0.6 Performance Tuning Guide	Detailed instructions for AMDC performance tuning.

1.3 Technical Support

AMDC products provide comprehensive technical support services. You can obtain technical support through the following channels:

- Website: www.apusic.com
- Phone: 400-855-5800
- Email: support@apusic.com
- Kingdee Cloud Community: <https://vip.kingdee.com/?productId=73&productLineId=14&lang=zh-CN>

When requesting technical support, please provide the following information:

1. Your name
2. Company information and contact details
3. Operating system and version
4. Product version number
5. Detailed information including logs, screenshots, etc. of any exceptions or errors

2 Introduction

Apsic In-Memory Data Cache Software (Apsic In-Memory Data Cache, abbreviated as AMDC) is a distributed cache software that is fully applicable to a wide range of scenarios, with high throughput and data security. It provides secure and reliable cache support capabilities for large-scale, high-concurrency, and highly available critical applications; and is compatible with the Redis protocol and persistent data files, enabling simple, fast, and smooth replacement of Redis.

3 Feature List

3.1 Console

Feature	Description
Multi-tenant management	Uses a multi-tenant model to isolate data for different businesses or management groups.
Permission control	Provides feature usage permission control to improve console security.
Multi-cluster management	Supports centralized management of multiple clusters, node start/stop, node elastic scaling, configuration, and other features.
Monitoring and alerting	Provides cache monitoring, detects cache status, and sends alert notifications when the cache core is abnormal.
Data analysis	Provides cache data analysis features such as big keys, hot keys, and slowlog.
Automatic deployment	Implements automatic deployment of the AMDC data cache engine; the system completes the whole process automatically, faster and simpler.
Visual scaling	Provides visual scale-out/node removal operations without tedious command operations.
Deployment tasks	Visualizes the deployment/scaling process; progress and status can be viewed in the task list.
Encrypted transmission (TLS)	Supports standard TLS / GM TLS certificate management and encrypted deployment, meeting transmission encryption requirements in compliance scenarios.
Apusiclet host agent	When SSH direct connection to a target host is prohibited, the host can be registered and managed through the Apusiclet agent (HTTP).
Connection management	Built-in client connection visualization on the service details page, supporting filtering, sorting, auto refresh, and disconnection.
Data management	Built-in data viewing (Insight) on the service details page, supporting key browsing, detail viewing, command execution, and safe deletion.
Rolling upgrade/migration	Supports business-non-interrupting rolling upgrade (AMDC→AMDC) and rolling migration (Redis→AMDC).
Multi-language UI	The console supports Simplified Chinese / Traditional Chinese / English; the language preference is saved per user.

4 Related Concepts

Term	Meaning	Usage Notes
Master node	Stores data, responsible for data read/write and data synchronization	The default mode of AMDC is standalone mode; in standalone mode, the master node is in standalone mode
Slave node	Replicates data from the master node, participates in data synchronization (read-only)	Slave nodes participate in data synchronization (read-only); when the master node fails, a slave node can be automatically switched to master; when the master node recovers, the slave node automatically switches back to slave.
Sentinel	Monitors master and slave nodes, responsible for master failover and master-slave synchronization	Sentinel mode: when the master node goes down, it automatically switches a slave node; when a slave node goes down, it automatically switches to the master node.
Cluster	A computer service system composed of multiple mutually independent computers	In this document, master-slave/Sentinel/cluster modes can all be considered clusters; cluster mode specifically refers to the mode where multiple master nodes store data in shards.

5 Complete Process for Bringing a New Service Online

The following demonstrates a complete service onboarding, upgrade, and migration operation process from the perspective of an **AMDC administrator**. Following this process, an implementation engineer unfamiliar with the console can independently complete deployment, verification, upgrade, and migration.

5.1 Log In to the Console

1. Open a browser and visit `http://<serverIP>:3001/` to enter the login page.
2. Enter the account `amdc_admin` and the corresponding password:
 - When the console starts for the first time, it automatically generates initial passwords for all preset administrator accounts (including `amdc_admin`, three-role administrators, and tenant administrators) and writes them to the `./resource/.initial_passwords` file under the installation directory.
 - Open this file and find the 12-digit random password after `amdc_admin:` as the first login password.
 - After the first successful login, the system will force you to change the password according to the **current password policy**; you can only enter the console main interface after completing the change. Logging in again after the password expires will also trigger a forced change.
3. Click [Login] to enter the console homepage.



Sign in



Sign in

*Note: All subsequent operations in this document are based on the **AMDC administrator** role. Other roles (system administrator, security administrator, audit administrator, tenant administrator) may have different menu scopes; please refer to the actual logged-in role.*

*Tip: The console supports three UI languages: **Simplified Chinese / Traditional Chinese / English**. Click the language switcher in the upper-right corner of the page to switch; it takes effect immediately without re-login. The language preference is saved for the current user (automatically applied on the next login) and does not affect other users. Users who have not set a personal preference use the global default language, which is controlled by the `system.language` item in the configuration file (`zh-CN` / `zh-TW` / `en` , default `zh-CN`); changes to this item take effect after restarting the console.*

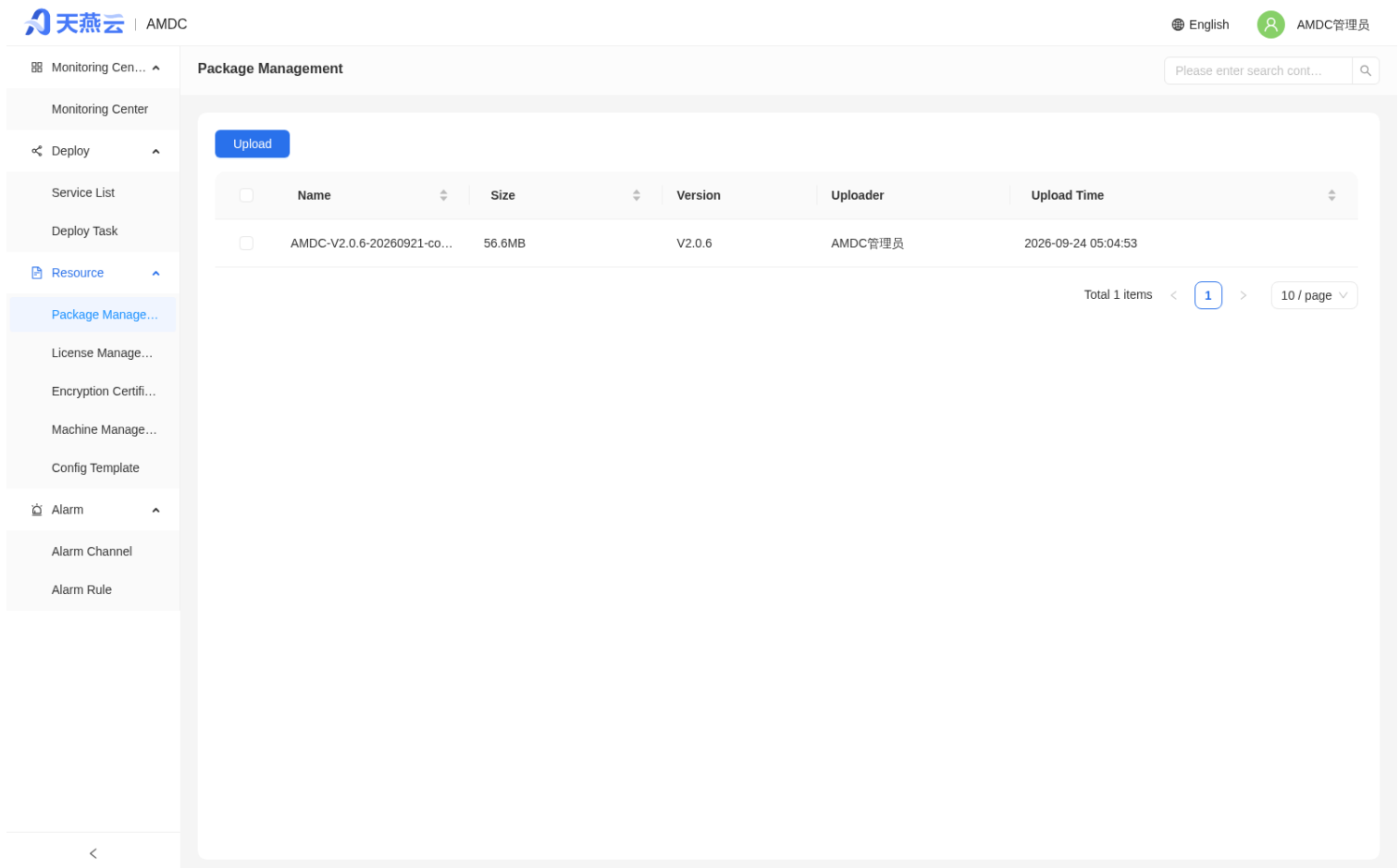
5.2 1. Resource Preparation

Before deploying services, you must first prepare the installation package, License, machines, and configuration templates in [Resource Management].

5.2.1 1.1 Add and Upload the Installation Package

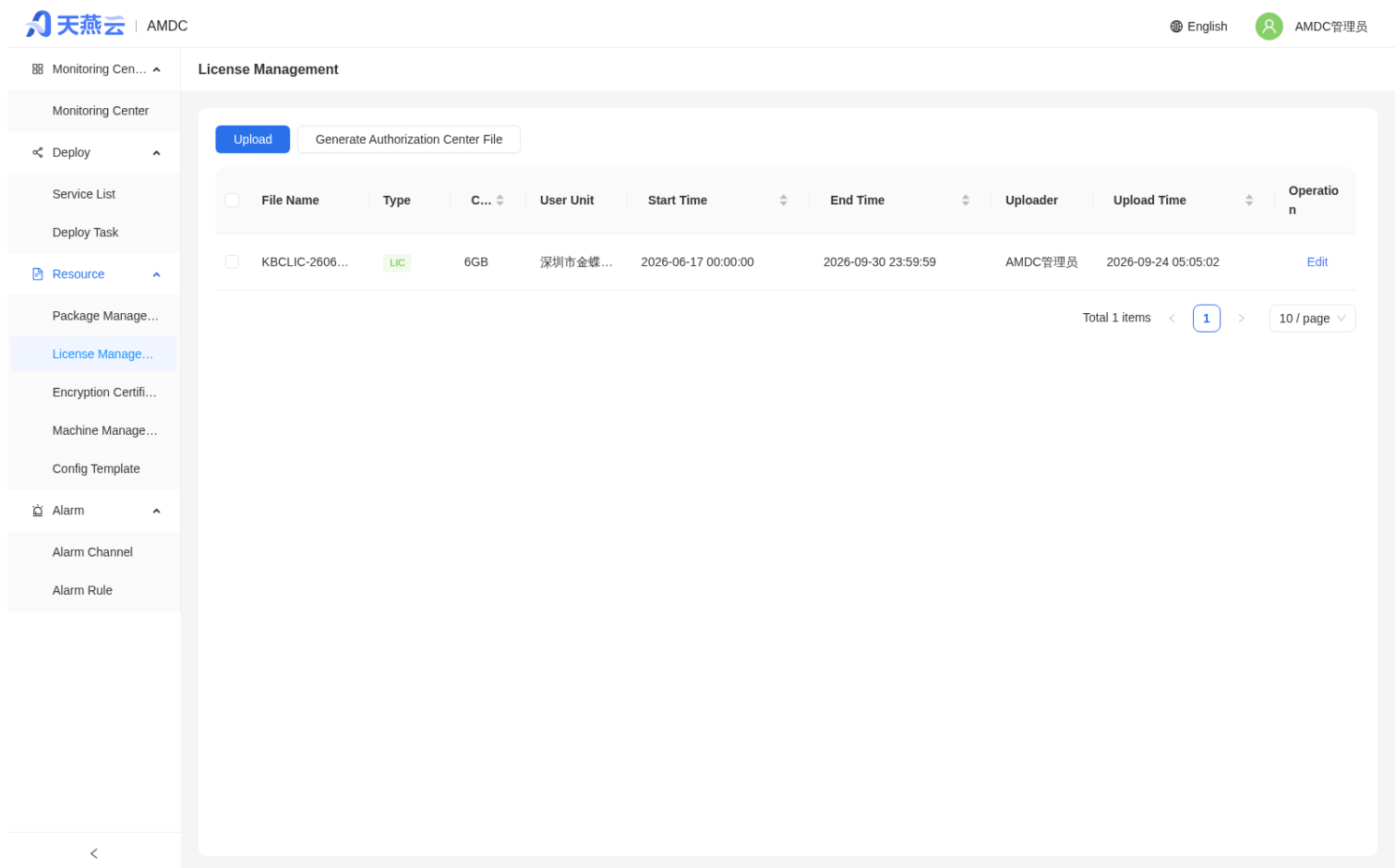
1. Go to the left menu [Resource Management] > [Package Management].

2. Click the [Upload] button in the upper right corner and select the AMDC installation package file of the target version (e.g., `AMDC-V2.0.6-xxxx-amd64.tar.gz`).
3. Click [OK] to complete the upload.



5.2.2 1.2 Upload the License

1. Go to the left menu [Resource Management] > [Certificate Management].
2. Click the [Upload] button and select valid License files; multiple files can be uploaded at the same time.
3. After uploading, the system will automatically parse them; invalid Licenses cannot be saved.



5.2.3 1.3 Add Target Machines

1. Go to the left menu [Resource Management] > [Machine Management].
2. Click the [+] button next to the machine group on the left to create a machine group first.
3. Select the machine group, click the [Add] button in the upper left, and fill in the remote server information:

Parameter	Example Value	Description
Username	root	Username for logging in to the remote machine
Password	-	Password for logging in to the remote machine
SSH Port	22	Remote SSH port
Host	172.17.47.213	Remote machine IP
Remarks	-	Optional

4. Confirm that the target machine connection status is normal before proceeding with subsequent deployment.

Note: The same machine group can only contain machines with the same chip architecture; automatic deployment requires the target machines to have the `tar` and `ss` commands.


AMDC

English
AMDC管理员

Monitoring Cen...

Monitoring Center
Deploy
Service List
Deploy Task
Resource
Package Manage...
License Manage...
Encryption Certifi...
Machine Manage...
Config Template
Alarm
Alarm Channel
Alarm Rule

Machine Management

Machine List
Add
Please enter ...

All
SSH Direct
Apusiclet Agent

	Host	Status	Connection	Username	Machine Info	Memory/Disk	Created At	Operation
☐	172.21.61.53	Online	SSH	root	kylin x86_64 Common K...	4397G / 37.57G	2026-09-24 05:3	Test Connection Delete
☐	172.21.61.66	Online	SSH	root	centos x86_64 Common ...	2290G / 11.91G	2026-09-24 05:0	Test Connection Delete

Total 2 items
1
10 / page

5.2.4 1.4 Confirm Configuration Templates

1. Go to the left menu [Resource Management] > [Configuration Templates].
2. Confirm that the cache core configuration template and the Sentinel configuration template (if using Sentinel mode) are available.
3. If customization is needed, you can modify them here; non-public parameters related to IP and port will not take effect.

天燕云 | AMDC

English

AMDC管理员

Monitoring Cen... ^

Monitoring Center

Deploy ^

Service List

Deploy Task

Resource ^

Package Manage...

License Manage...

Encryption Certifi...

Machine Manage...

Config Template

Alarm ^

Alarm Channel

Alarm Rule

Config Templates

Config List +

Please enter ...

Version

All V2.0.4 V2.0.5 V2.0.6

Cache Config (amdc.yaml)

V2.0.6.amdc V2.0.6 ...

V2.0.5.amdc V2.0.5 ...

V2.0.4.amdc V2.0.4 ...

Cache Config (amdc.conf)

V2.0.6.amdc V2.0.6 ...

V2.0.5.amdc V2.0.5 ...

V2.0.4.amdc V2.0.4 ...

Sentinel Config (sentinel.yaml)

V2.0.6.sentinel V2.0.6 ...

V2.0.5.sentinel V2.0.5 ...

V2.0.4.sentinel V2.0.4 ...

Sentinel Config (sentinel.conf)

V2.0.6.sentinel V2.0.6 ...

Edit Save Init Reset Set Default

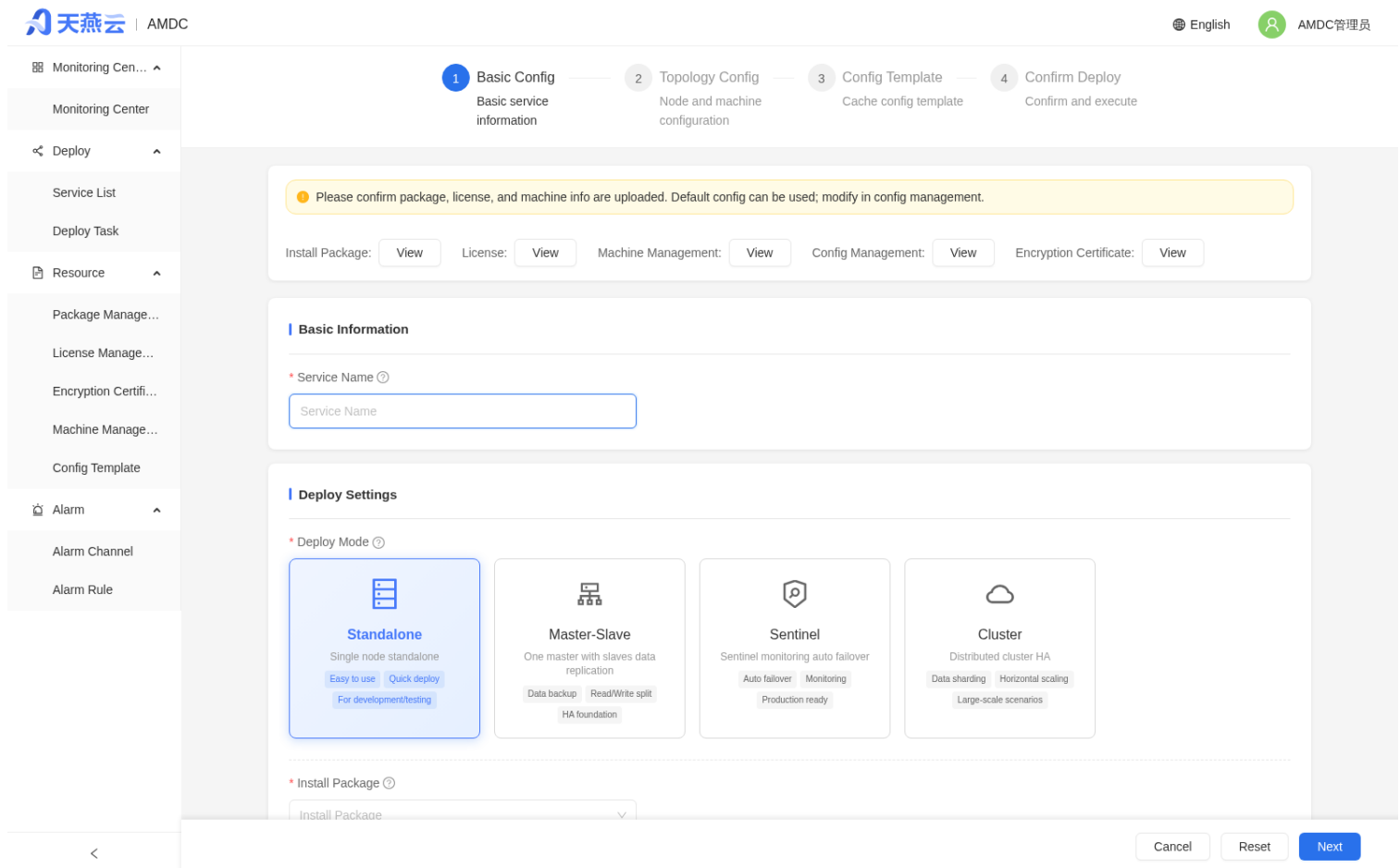
```

1 NETWORK:
2 # Network addresses to listen on; by default only the loopback address is listened on
3 bind:
4 # Force all outbound connections to be sent from the specified local IP; unset by default so the OS routing table picks the source IP
5 bind-source-addr: ""
6 # TCP port to listen on; set to 0 to disable the TCP socket
7 port: 6359
8 # Protected modes when bind is not specified and no password is set, only loopback and Unix domain socket connections are allowed
9 protected-mode: no
10 # MPTCP (Multipath TCP) enables concurrent transfer over multiple links to improve aggregated bandwidth and throughput; requires Linux 5.6 or later
11 mptcp-enabled: no
12 # TCP backlog size; the effective value may be limited by the system's somaxconn and tcp_max_syn_backlog
13 tcp-backlog: 511
14 # Unix domain socket path; if not specified, no Unix socket is listened on
15 unixsocket: ""
16 # Permissions of the Unix domain socket
17 unixsocketperm: 0
18 # Idle client timeout in seconds; 0 disables it
19 timeout: 0
20 # TCP keepalive interval in seconds, used to detect dead connections and keep connections alive
21 tcp-keepalive: 300
22 # Mark ID assigned to the listening socket for advanced routing and traffic filtering; defaults to 0, meaning socket marking is off with no extra routing/filter binding
23 socket-mark-id: 0
24
25 GENERAL:
26 # Whether to run as a daemon
27 daemonize: no
28 # Interaction mode with process supervisors (upstart/systemd); no interaction by default
29 supervised: no
30 # pid file path
31 pidfile: "/var/run/amdc_6359.pid"
32 # Log level: debug (verbose), verbose (more), notice (moderate, recommended for production), warning (critical messages only)
33 loglevel: notice
34 # Log file path; an empty string means writing to standard output
35 logfile:
36 # Whether to enable syslog
37 syslog-enabled: no
38 # Syslog facility
39 syslog-ident: "AMDC"
40 # Syslog facility; must be USER or LOCAL0-LOCAL7
41 syslog-facility: local0
42 # Whether to enable crash logging
43 crash-log-enabled: yes
44 # Whether to enable Fast memory checks in crash logs
45 crash-memcheck-enabled: yes
46 # Number of worker threads; defaults to 1
47 worker-threads: 1
48 # Number of databases; DB 0 is used by default and can be switched via SELECT
49 databases: 16
50 # Whether to show the ASCII art logo in startup logs; by default only interactive sessions show it
51 always-show-logo: no
52 # Whether to modify the process title to show runtime information
53 set-proc-title: yes
54 # Process title template, supports multiple variables
55 proc-title-template: "[title] ([listen-addr]) ([server-mode])"
56 # Locale rules for string comparison and sorting; empty inherits the language settings from system environment variables
57 locale-collate: ""
58
59 MODULES:
60 # Load the specified modules at startup; the server aborts startup if loading fails; may be used multiple times to load multiple modules
61 loadmodule: ""
62
63 TLS/SSL:
64 # TLS listen port; use together with port 0 to enable TLS only
65

```

5.3 2. Automatically Deploy a New Service

After resource preparation is complete, go to [Deployment Management] > [Automatic Deployment] and complete the service deployment in a 4-step wizard.



5.3.1 2.1 Basic Configuration

Fill in the following in the [Basic Configuration] step:

- **Service Name:** A unique identifier; only supports letters, digits, underscores, and hyphens, no more than 24 characters.
- **Deployment Mode:** Select standalone / master-slave / Sentinel / cluster / pre-generated nodes.
- **Installation Package:** Select an uploaded installation package.
- **Installation Directory:** e.g., `/data/loop` ; nodes are actually located at `{seat}/{port}` .
- **Encryption Mode:** Off (default, TCP plaintext) / Standard TLS / GM TLS. When Standard TLS or GM TLS is selected, you must also select an uploaded certificate of the matching type in [TLS Certificate] (certificates are maintained under [Resource Management] > [Encryption Certificate Management]).
- **AMDC Password:** The cache core management password; you can click the settings button to configure complexity rules.
- **Auto-start on Boot:** Whether to run automatically when the system starts.
- **sudo:** Whether to use sudo privileges to execute installation commands.


AMDC

English
AMDC管理员

Monitoring Cen... ^

Monitoring Center

Deploy ^

Service List

Deploy Task

Resource ^

Package Manage...

License Manage...

Encryption Certifi...

Machine Manage...

Config Template

Alarm ^

Alarm Channel

Alarm Rule

1 Basic Config

Basic service information

2 Topology Config

Node and machine configuration

3 Config Template

Cache config template

4 Confirm Deploy

Confirm and execute

Standalone

Single node standalone

Easy to use Quick deploy

For development/testing

Master-Slave

One master with slaves data replication

Data backup Read/Write split

HA foundation

Sentinel

Sentinel monitoring auto failover

Auto failover Monitoring

Production ready

Cluster

Distributed cluster HA

Data sharding Horizontal scaling

Large-scale scenarios

* Install Package ?

Install Package

* Install Path ?

e.g.: /data/looper

* Encryption Mode

Disabled

Other Settings

AMDC Password ?

Please enter password

Auto Start ?

☒ No
 ☐ Yes

Cancel

Reset

Next

When the encryption mode is set to [Standard TLS] or [GM TLS], the wizard requires selecting the corresponding TLS certificate:

Monitoring Cen... ^

Monitoring Center

Deploy ^

Service List

Deploy Task

Resource ^

Package Manage...

License Manage...

Encryption Certifi...

Machine Manage...

Config Template

Alarm ^

Alarm Channel

Alarm Rule

1 Basic Config
Basic service
information

2 Topology Config
Node and machine
configuration

3 Config Template
Cache config template

4 Confirm Deploy
Confirm and execute

Basic Information

* Service Name ⓘ

Service Name

Deploy Settings

* Deploy Mode ⓘ



Standalone

Single node standalone

Easy to use Quick deploy
For development/testing



Master-Slave

One master with slaves data
replication

Data backup Read/Write split
HA foundation



Sentinel

Sentinel monitoring auto failover

Auto failover Monitoring
Production ready



Cluster

Distributed cluster HA

Data sharding Horizontal scaling
Large-scale scenarios

* Install Package ⓘ

Install Package

Disabled

Standard TLS

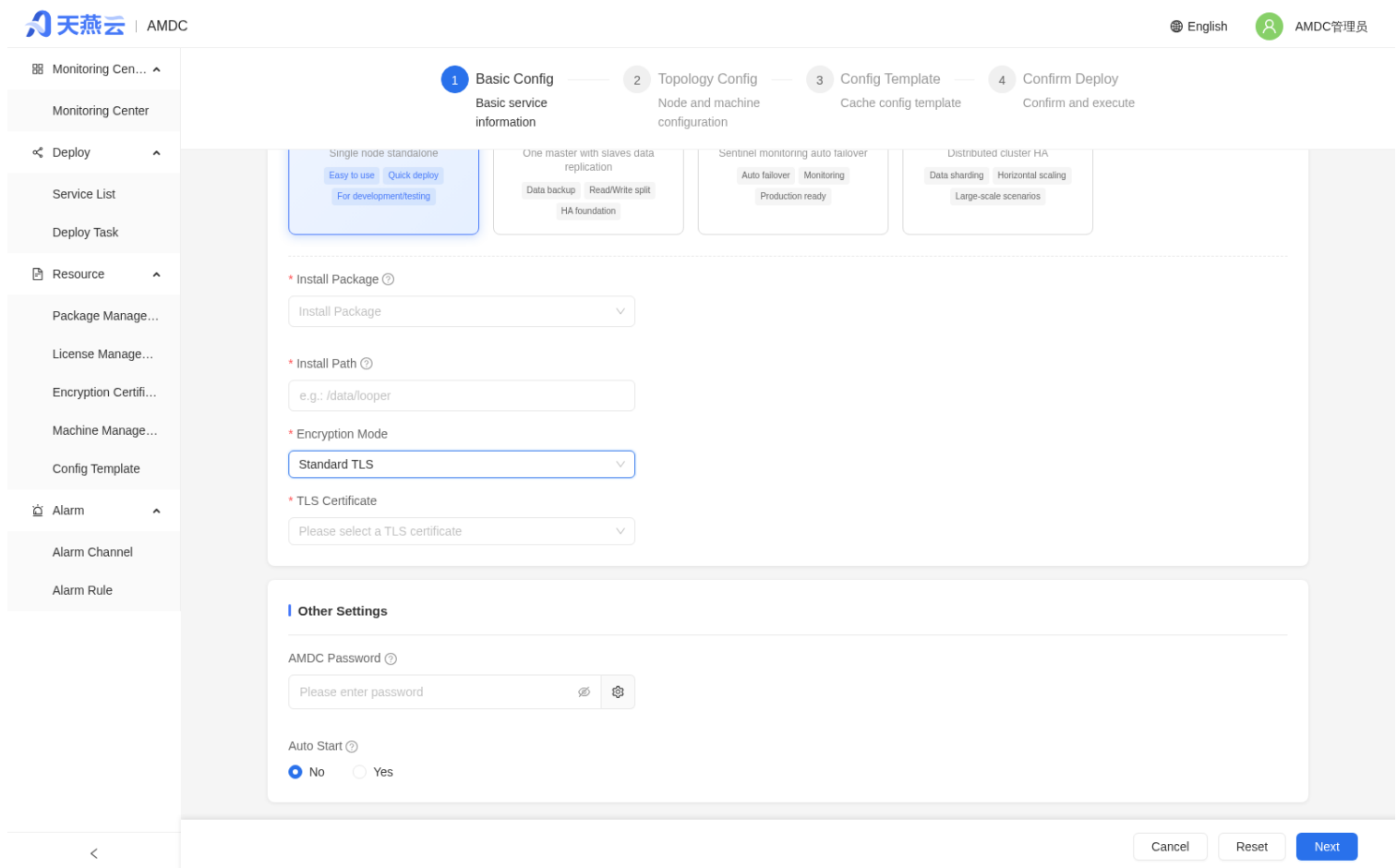
GM TLS

Disabled

Cancel

Reset

Next



Note: TLS / GM TLS deployment requires an amdc-server installation package that supports the corresponding protocol; GM TLS uses the SM2/SM3/SM4 algorithm suite (TLCP protocol), and clients must support TLCP. Changing the encryption mode of an already deployed instance is not supported in the current version — redeploy if needed. The encryption mode can also be selected when scaling out new nodes.

5.3.2 2.2 Topology Configuration

1. Select [Automatic] or [Manual] topology mode:
 - **Automatic:** The system automatically assigns ports and node roles; you only need to select machines and licenses.
 - **Manual:** Configure the machine, port, role, and license for each node.
2. Configure the port range (default 6359–65535) and the number of nodes.
3. In the [Machines and Licenses] area, select the target machines and select a License for each machine.

Note: All machines must be in the same machine group; non-Sentinel nodes must have a license selected.

AMDC

English
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Monitoring Cen... ^
Monitoring Center
Deploy ^
Service List
Deploy Task
Resource ^
Package Manage...
License Manage...
Encryption Certifi...
Machine Manage...
Config Template
Alarm ^
Alarm Channel
Alarm Rule

Basic Config
Basic service information

2
Topology Config
Node and machine configuration

3
Config Template
Cache config template

4
Confirm Deploy
Confirm and execute

Please confirm package, license, and machine info are uploaded. Default config can be used; modify in config management.

Install Package: View License: View Machine Management: View Config Management: View Encryption Certificate: View

Topology Mode

Auto Manual
System auto-assigns ports and roles. Just select machines and licenses.

Node Configuration

* Available Port Range ⓘ
6359 — 65535

* Master Count ⓘ
1

Machines & Licenses ⓘ
Selected 1

Machine 1

Host: Click to select machine
License: Please select license

+
Add Machine

Cancel Reset Previous Next

5.3.3 2.3 Configuration Templates

Select the cache core configuration template; if the deployment mode is Sentinel, you also need to select the Sentinel configuration template.

5.3.4 2.4 Confirm Deployment

1. After confirming that the deployment information is correct, click [Execute Task] to deploy immediately, or click [Save Task] to save it for later execution.
2. During deployment, you can go to [Deployment Management] > [Deployment Tasks] to view the task status.
3. Wait for the task status to change to "Completed".

 | AMDC
 English
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Monitoring Cen... ^
Monitoring Center
Deploy ^
Service List
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Package Manage...
License Manage...
Encryption Certifi...
Machine Manage...
Config Template
Alarm ^
Alarm Channel
Alarm Rule

Deployment Tasks

Please select a dep... v

Execute

☐	Task ID	Service Name	Deploy Mode	Stage	Deploy Time	Action
☐	Task_1	sin1	Standalone	Done	2026-09-24 05:06:05	Edit

Total 1 items < 1 > 10 / page v

5.4 3. Service Verification and Monitoring

After deployment is complete, go to [Deployment Management] > [Service List] to view the newly created service.

 | AMDC
 English
AMDC管理员

Monitoring Cen... ^

Monitoring Center

Deploy

Service List

Deploy Task

Resource ^

Package Manage...

License Manage...

Encryption Certifi...

Machine Manage...

Config Template

Alarm ^

Alarm Channel

Alarm Rule

Services

redis-cluster-01

Mode	Cluster	Node Address
Status	Healthy	172.21.61.46:7001 (Master)
Nodes	6	172.21.61.46:7003 (Master)
Used	16.06(MB)	172.21.61.46:7002 (Master)
Env	Machine	172.21.61.46:7004 (Slave)
Source	Import	172.21.61.46:7006 (Slave)
		172.21.61.46:7005 (Slave)

View | Monitor | Uninstall

sin1

Mode	Standalone	Node Address
Status	Healthy	172.21.61.66:6359 (Master)
Nodes	1	
Used	0.9(MB)	
Env	Machine	
Source	Console	

View | Monitor | Uninstall

Auto Deploy

Import Service

1. Click the service name to enter the service details.
2. Click [Monitoring] to view cluster running metrics (memory, QPS, connections, etc.).

AMDC

English
AMDC管理员

Monitoring Cen...
Service List / Monitor
172.21.61.46:7001
Analysis

Monitoring Center
Deploy
Service List
Deploy Task
Resource
Package Manage...
License Manage...
Encryption Certifi...
Machine Manage...
Config Template
Alarm
Alarm Channel
Alarm Rule

Running Status
Normal 1 days

Node Topology
3M + 3S

Version Info
8.2.1 / cluster / master

License User
Validity
Bound IP
Available Memory
License Info Missing

Static
Dynamic

Cluster Health

Status: Status Good

80 Health Score

Memory: Normal

Hit Rate: High

Connections: No Reject

Sync: Abnormal

Core Metrics

Memory Usage Rate
0%
Used 2.94 MB / Available 0 MB

Key Hit Rate
100%
keyspace_hits / total

Current Connections
4
Max Connections: 10,000 - Rejected: 0 - Normal

Eviction Policy
noeviction
maxmemory_policy

Rejected Connections
0
rejected_connections

Key Count
2
Total db keys

Expired Keys
0
expired_keys

Run Days
1 days
normal_run_day

Detail Data

Key Count
2

RSS Memory
4.97 MB

Next GC Trigger
0 MB

Full Sync
1 times

Partial Sync Fail
1

Expired Keys
0

Persistence State

RDB Status
Idle
Last Status: ok - Change Count: 43

RDB Last Save
9/23/2026, 6:14:22 PM
Duration: 1s

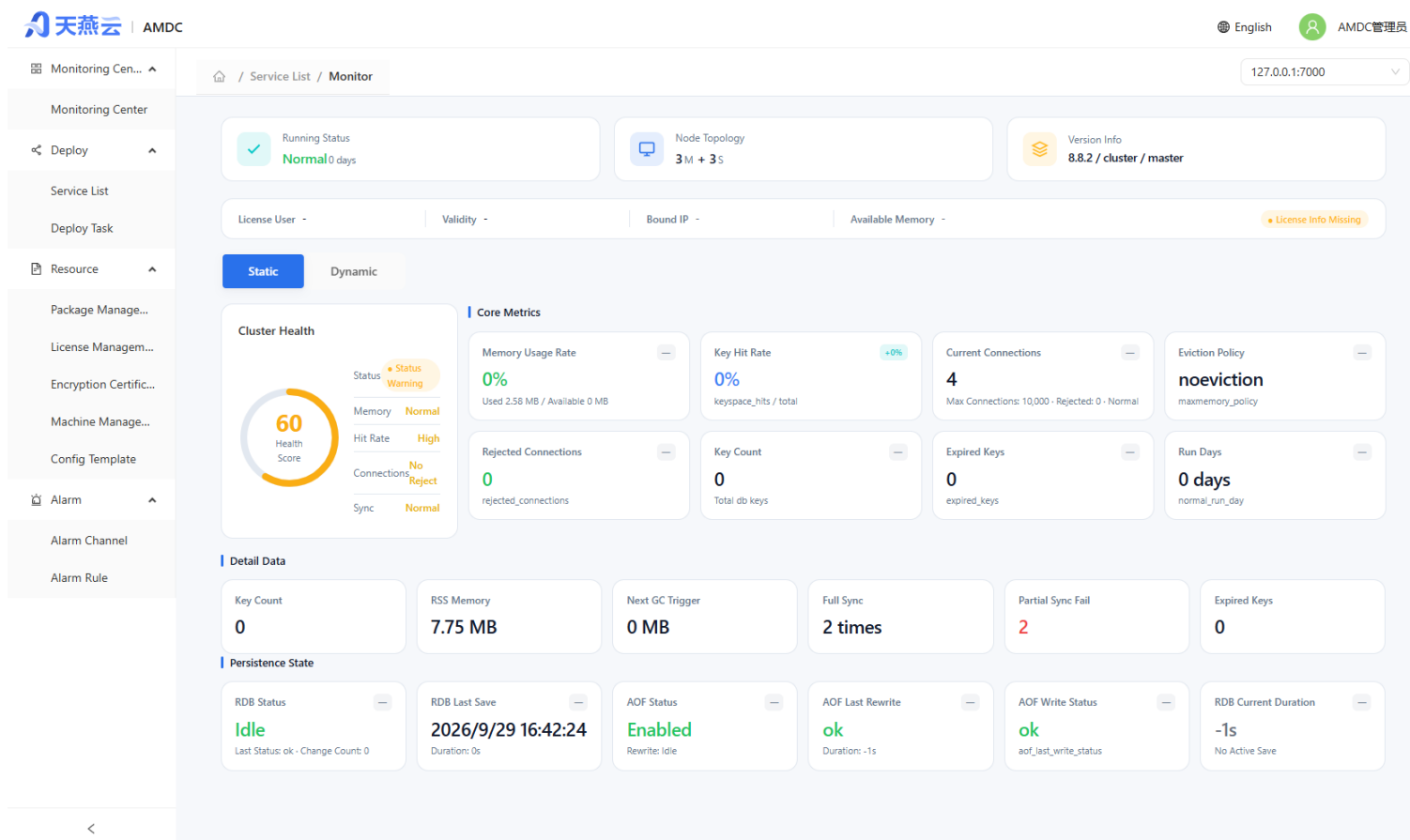
AOF Status
Disabled
Rewrite: Idle

AOF Last Rewrite
ok
Duration: -1s

AOF Write Status
ok
aof_last_write_status

RDB Current Duration
-1s
No Active Save

3. Click [Analysis] to perform data analysis such as big keys, hot keys, and slowlog.



4. Click the [Command Line] button at the top to execute AMDC commands to verify data write/read.

5.5 4. Service Upgrade

When you need to upgrade to a new version:

1. Upload the new version installation package in [Resource Management] > [Package Management].
2. Enter the target service details, click [Upgrade/Rollback] > [Upgrade] at the top to open the "Cluster Upgrade" drawer.
3. Carefully read the upgrade notes:
 - The upgrade will **stop the entire cluster** and replace the binaries; the cluster is unavailable during this period.
 - If the upgrade fails, the system will automatically roll back from the backup to the pre-upgrade version.
 - Only same-version or higher-version upgrades are supported.
 - Node data is automatically backed up before the upgrade; please ensure that each node has sufficient disk space.
4. Select the installation package to upgrade to in the list, and click [Confirm Upgrade].

- Wait for the upgrade task to complete; you can observe the status in [Deployment Management] > [Deployment Tasks] or the monitoring center.

天燕云 | AMDC

Monitoring Cen... ^

Monitoring Center

Deploy ^

Service List

Deploy Task

Resource ^

Package Manage...

License Manage...

Encryption Certifi...

Machine Manage...

Config Template

Alarm ^

Alarm Channel

Alarm Rule

/ Service List / Settings

redis-cluster-01 Healthy

Model Cluster | Machine Group Not Linked | Master 3 | Slave 3 | Encryption Mode Off

Nodes Tasks Connections Data Management

Command Line Start Stop Restart Expand Node Operations v

Link Machines Backup/Restore v Configuration v Upgrade/Rollback v Cluster Ops v Upda

Connection Status	Identity	Run Status	Host	Port	Time	Related Machine	Auth Code	Node li
☒ Connected	master	Running	172.21.61.46	7001	2026-09-24 05:35:22	Not Related		Noc
☐ Connected	slave	Running	172.21.61.46	7005	2026-09-24 05:35:22	Not Related		Noc
☐ Connected	master	Running	172.21.61.46	7003	2026-09-24 05:35:22	Not Related		Noc
☐ Connected	slave	Running	172.21.61.46	7004	2026-09-24 05:35:22	Not Related		Noc
☐ Connected	master	Running	172.21.61.46	7002	2026-09-24 05:35:22	Not Related		Noc
☐ Connected	slave	Running	172.21.61.46	7006	2026-09-24 05:35:22	Not Related		Noc

Cluster Upgrade

Upgrade Notes

Upgrade will **stop the entire cluster** and replace binaries, during which the cluster is unavailable.

On upgrade failure, the system will automatically roll back to the pre-upgrade state from backup.

Note: Only same or higher version upgrades are supported; for older versions, use smooth migration.

Note: Node data is automatically backed up before upgrade; please ensure each node has sufficient disk space.

Select the package to upgrade to:

☐ AMDC-V2.0.6-20260921-compatible-amd64.tar.gz
Size: 56.6MB Upload Time: 2026-09-24 05:04:53

Cancel

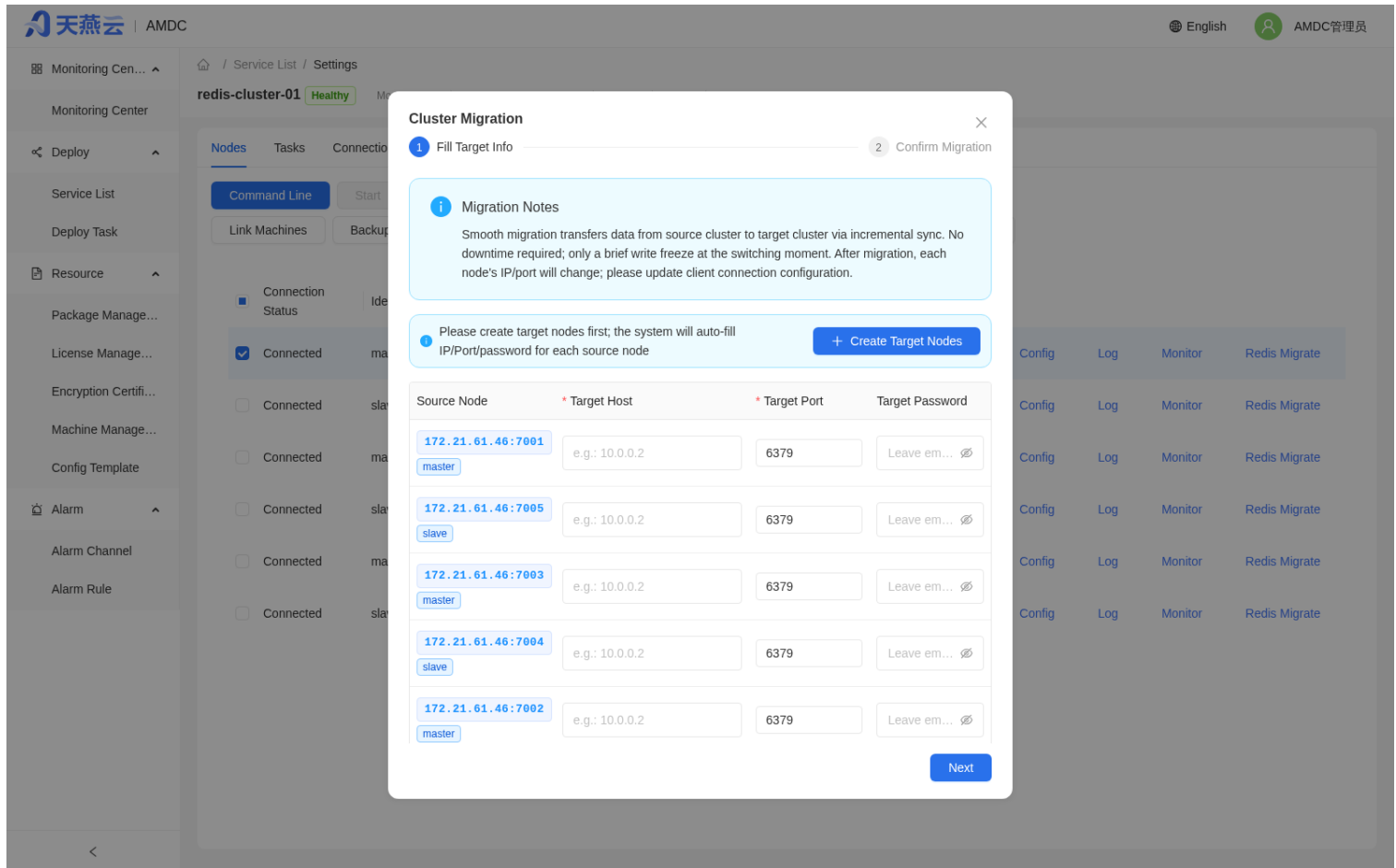
Confirm Upgrade

5.6 5. Smooth Migration (Optional)

If you need to migrate the service to new hardware or a new cluster:

- Enter the target service details, click [Cluster Operations] > [Smooth Migration] at the top to open the "Cluster Migration" pop-up window.
- In the [Fill In Target Information] step, click [Create Target Node] to create target nodes through the automatic deployment wizard; after creation, the system will automatically fill in the target IP/Port/password.
- Click [Next] to enter [Confirm Migration] and read the migration risk notes:
 - During migration, the source cluster will have a brief write freeze (about 30 seconds).
 - After migration, the business access IP/port will change.
 - In Sentinel mode, Sentinel nodes do not participate in migration; check the Sentinel configuration after migration.

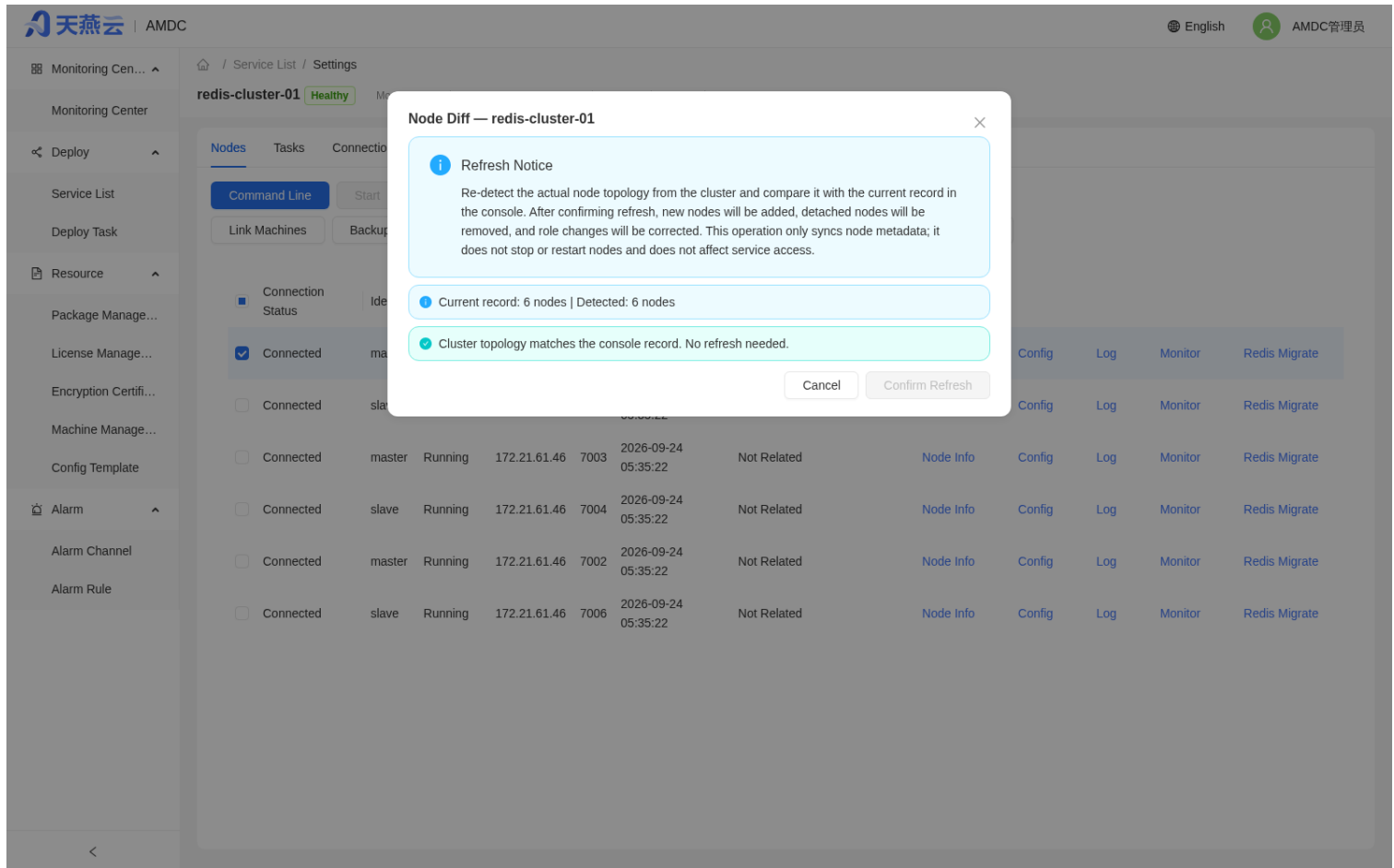
- After confirming that the information is correct, click [Confirm Migration]; the system will automatically complete incremental synchronization and switchover.
- After the switchover is complete, update the client connection configuration in a timely manner.



5.7 6. Refresh Nodes

After an upgrade or migration, if the node information displayed on the console is inconsistent with the actual cluster:

- Enter the target service details, click [Cluster Operations] > [Refresh Nodes] at the top.
- In the pop-up window, view the node change comparison result (current recorded node count, actual detected node count, change description).
- Click [Confirm Refresh] to synchronize node metadata.



5.8 7. Daily Operations

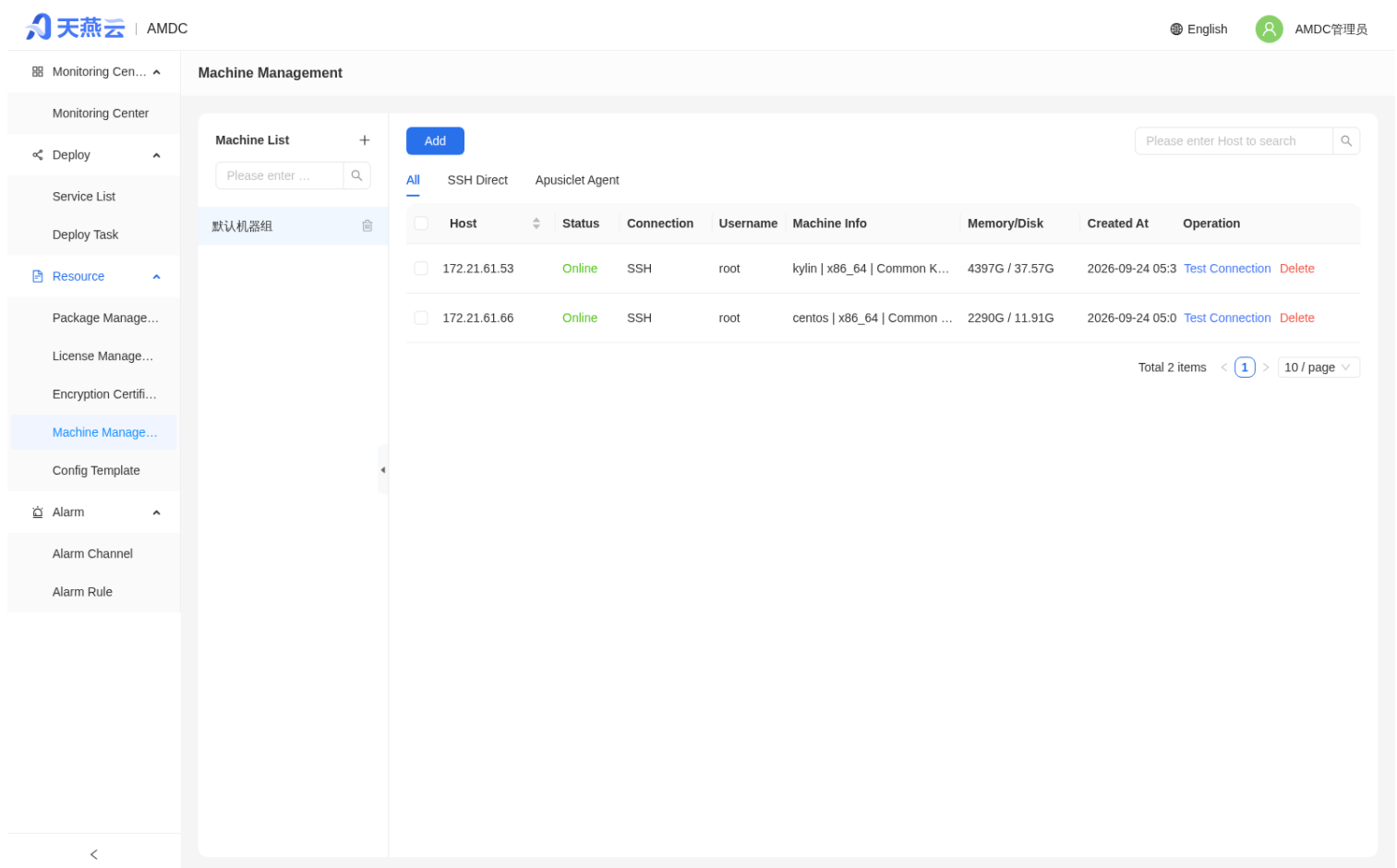
- **Alerts:** Configure notification methods and thresholds in [Alerts] > [Alarm Channels]/[Alarm Rules].
- **Log rotation:** Go to Service Details > [Cluster Operations] > [Log Rotation] to configure log retention days and single-file size limits.
- **Backup and recovery:** Go to the Service Details [Nodes] tab and use the [Backup/Restore] drop-down menu to perform data backups regularly and perform recovery when necessary.
- **Connection management:** Go to the Service Details [Connection Management] tab to view client connections in real time and disconnect abnormal connections.
- **Data management:** Go to the Service Details [Data Management] tab to browse keys, view value content and TTL, and execute query commands.
- **Scale out/scale in:** Enter the service details, click [Scale Out] to add nodes; select a node and reduce nodes via [Node Operations] > [Remove].

6 Environment Preparation and Resource Management

Before creating or operating AMDC services, you need to prepare the following resources in [Resource Management].

6.1 Machine Management

Go to [Resource Management] > [Machine Management]. The machine management page provides entries for adding, editing, and deleting machines. The machine information required for automatic deployment is created here.



The screenshot shows the AMDC console interface. The top bar includes the AMDC logo and user information. The left sidebar contains navigation links. The main content area is titled 'Machine Management' and features a 'Machine List' section with an 'Add' button. Below this is a table of machines.

Host	Status	Connection	Username	Machine Info	Memory/Disk	Created At	Operation
172.21.61.53	Online	SSH	root	kylin x86_64 Common K...	4397G / 37.57G	2026-09-24 05:3	Test Connection Delete
172.21.61.66	Online	SSH	root	centos x86_64 Common ...	2290G / 11.91G	2026-09-24 05:0	Test Connection Delete

At the bottom of the table, it shows 'Total 2 items' and a pagination control for '10 / page'.

6.1.0.1 Add a Machine

Go to [Resource Management] > [Machine Management]. A machine group must exist before you can add machines, and the same machine group can only contain machines with the same chip architecture. Click the [+] button next to the machine group on the left to add a machine group; after selecting the machine group, click the [Add] button in the upper left and fill in the machine information.

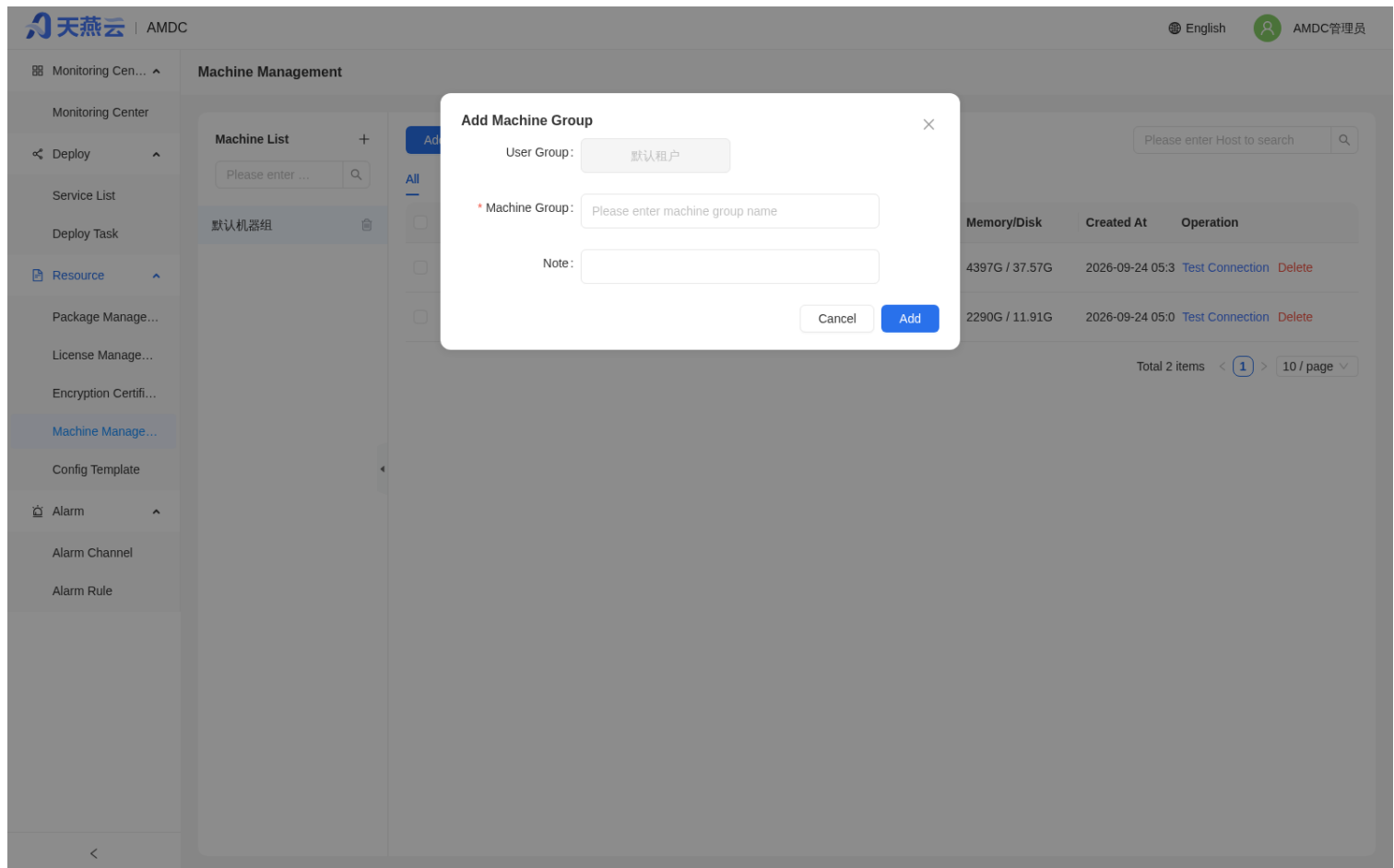
Note: Only servers with normal connections can be added, so please confirm the connection status of the target machine.

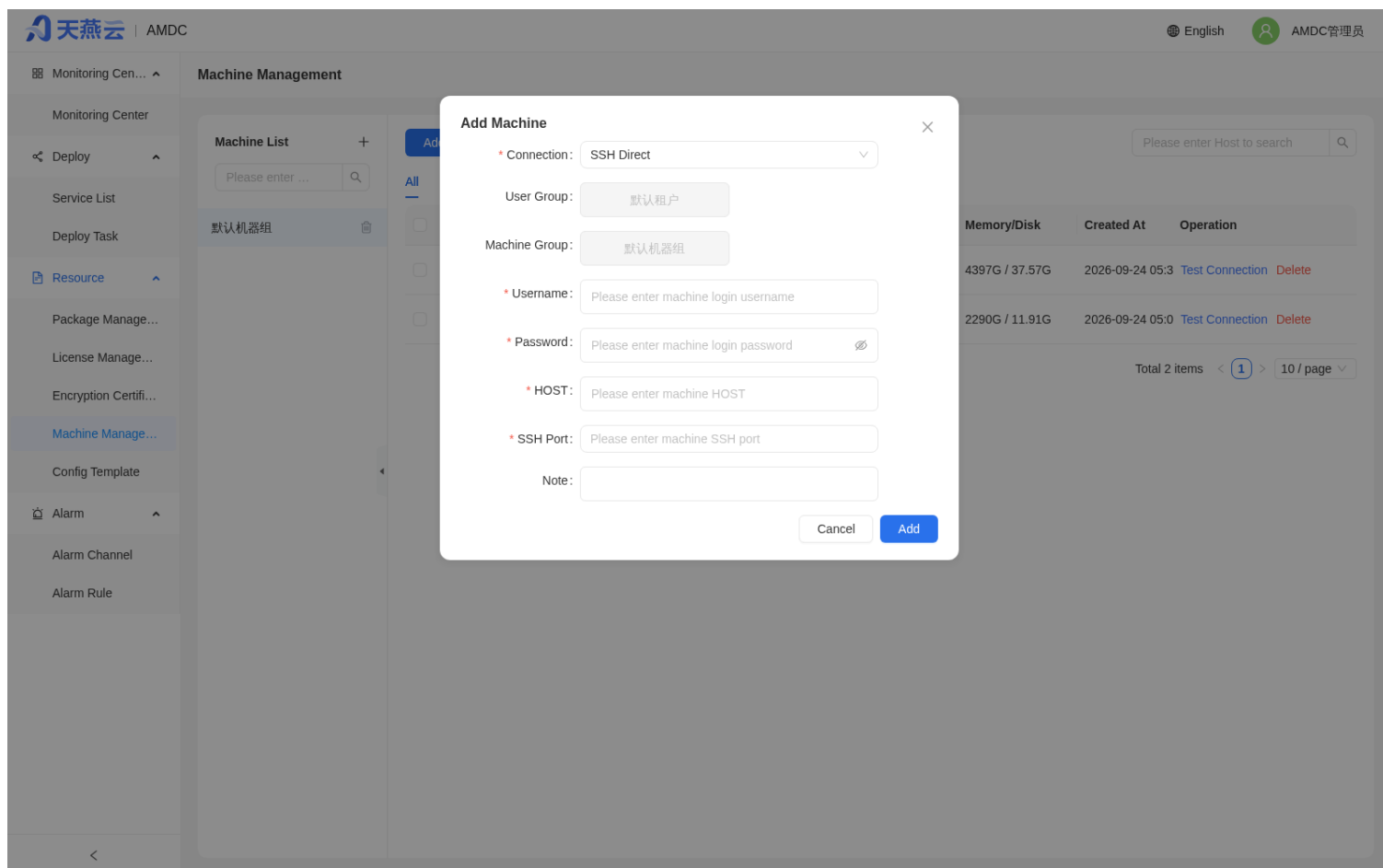
Two **connection modes** are supported when adding a machine:

- **SSH Direct Connection** (default): keeps the original behavior and manages the target host over SSH.
- **Apusiclet Agent**: when SSH direct connection to the target host is prohibited (e.g., in strictly controlled network environments such as finance and government), the host is managed through the Apusiclet service (HTTP) pre-deployed on the target host, providing the same capabilities as SSH direct connection: command execution, file upload/download, cluster deployment, instance start/stop, and log collection.

SSH direct connection parameters:

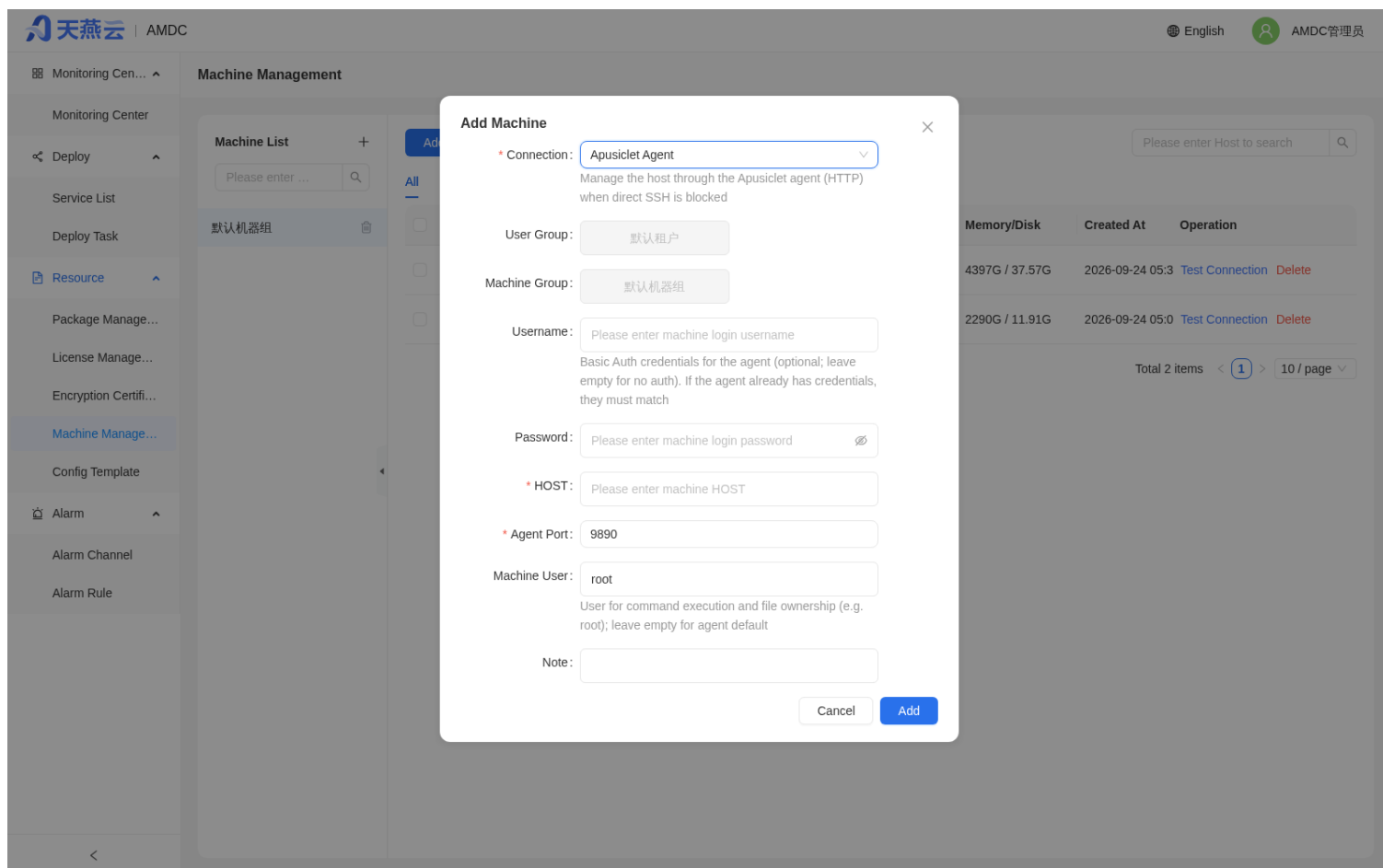
Parameter	Meaning
Username	Username for logging in to the remote machine, e.g., root
Password	Password for logging in to the remote machine
SSH Port	Port for logging in to the remote machine, e.g., 22
Host	Address of the remote machine, e.g., 192.168.x.x (example IP; replace with the actual IP)
Remarks	Can be empty





Apusiclet agent parameters:

Parameter	Meaning
Username	Agent Basic Auth credential; can be left empty (authentication disabled); if the agent has credentials configured, enter the matching username
Password	Password of the agent Basic Auth credential; stored encrypted and never displayed in plaintext
Host	Address of the remote machine
Agent Port	Listening port of the Apusiclet service on the target host; default 9890
Machine User	User that owns command execution and files (e.g., root); leave empty to use the agent default
Remarks	Can be empty



Note:

- Before using the Apusiclet agent, deploy and start the Apusiclet service on the target host, and ensure the console can reach the Apusiclet service port; the Apusiclet version must match the console version.
- In the machine list, use [Test Connection] to verify machine connectivity and authentication information; when the Apusiclet channel is disconnected (heartbeat times out continuously), the machine status is set to offline, and operations depending on this channel are blocked with a prompt.
- The same host cannot be registered twice with both connection modes; the connection mode of a registered machine can be modified after passing the connection test.

6.1.0.2 Delete Machines

Click [Resource Management] > [Machine Management] to enter the machine management page, check the machines to delete, and click the [Delete] button on the right side of the machine list to delete the machines in the current row; batch deletion is supported.

6.1.0.3 Edit a Machine

Click [Resource Management] > [Machine Management] to enter the machine management page, check the machine to edit, and click the [Edit] button on the right side of the machine list to edit the machine information in the current row.

6.2 Resource Management

Resource management is used to store AMDC installation packages and License files. Uploaded files undergo preliminary validation by the console to determine their availability, and are selected for use in automatic deployment.

Note: In the current AMDC administrator menu, installation packages, Licenses, machines, and configuration templates are uniformly placed under [Resource Management]. Version management is not directly displayed in the current menu; if the entry changes, please refer to the actual menu.

6.2.0.1 Package Management

Go to [Resource Management] > [Package Management] to upload installation packages used for automatic deployment.

The screenshot displays the AMDC console interface for Package Management. The sidebar on the left contains navigation links, with 'Resource' and 'Package Management' highlighted. The main panel shows a table with the following data:

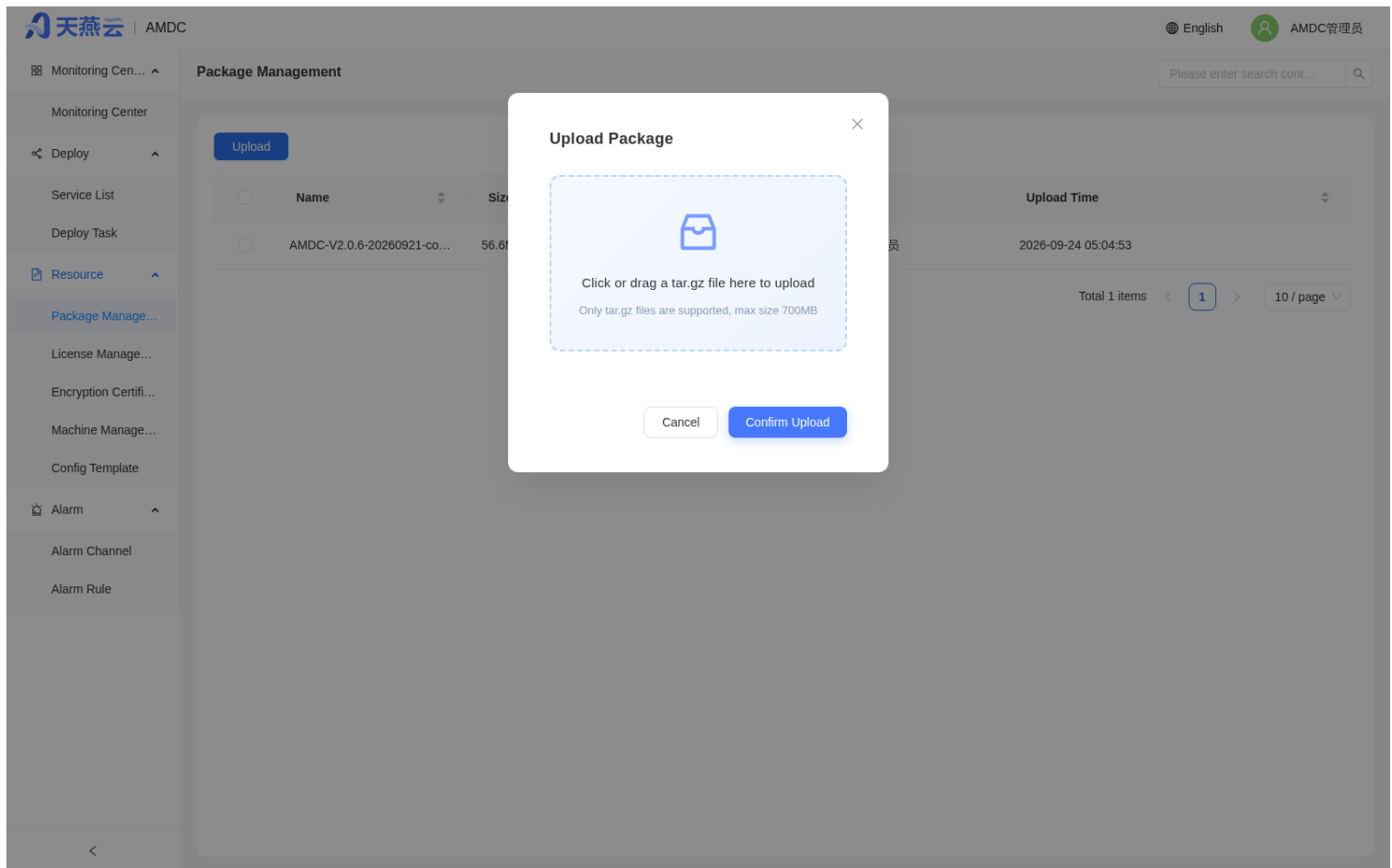
	Name	Size	Version	Uploader	Upload Time
☐	AMDC-V2.0.6-20260921-co...	56.6MB	V2.0.6	AMDC管理员	2026-09-24 05:04:53

Below the table, the pagination bar indicates 'Total 1 items' and '10 / page'.

- Upload an installation package

Click the [Upload] button to open the upload installation package pop-up window, click [Choose File] to select the installation package to upload, and then click OK.

Only one installation package can be uploaded at a time, and you can specify the package type (c or go).

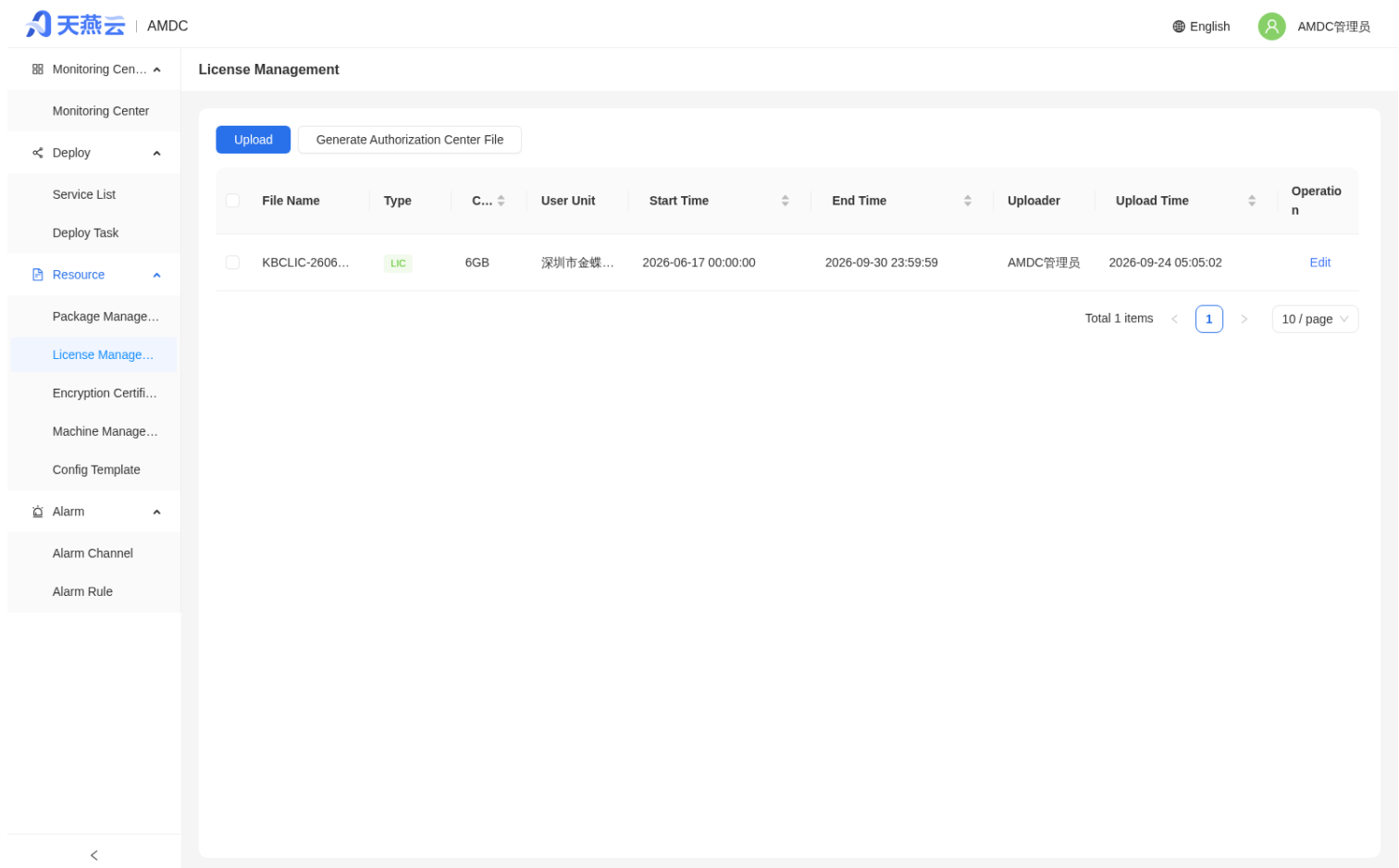


- Delete installation packages

Select the installation packages to delete and click the [Delete] button in the upper left corner; multiple packages can be deleted at the same time.

6.2.0.2 License Management

Go to [Resource Management] > [Certificate Management] to upload Licenses used for automatic deployment. After uploading, the Licenses will be parsed, and invalid Licenses cannot be saved in the console.



- Upload Licenses

Click the [Upload] button to open the upload License pop-up window, click [Choose File] to select the License files to upload, and then click OK; multiple files can be uploaded at the same time.

- Delete Licenses

Select the Licenses to delete and click the [Delete] button in the upper left corner; multiple Licenses can be deleted at the same time.

6.2.0.3 Generate Authorization Center File

On the License management page, click the [Generate Authorization Center File] button to generate the `acls.properties` authorization center configuration file, used for ACL authorization scenarios in clusters.

6.2.0.4 Encryption Certificate Management

Go to [Resource Management] > [Encryption Certificate Management] to manage SSL/TLS certificates required for TLS-encrypted transmission. Certificates can be uploaded, generated, listed, downloaded, edited, and deleted. Certificate data is isolated by tenant; private keys are stored encrypted, never displayed in plaintext on the page, and cannot be exported.

Monitoring Cen... ^

Encryption Certificate Management

Monitoring Center

Deploy ^

Service List

Deploy Task

Resource ^

Package Manage...

License Manage...

Encryption Certifi...

Machine Manage...

Config Template

Alarm ^

Alarm Channel

Alarm Rule

Generate Test Self-Signed Certificate

+ Upload Certificate

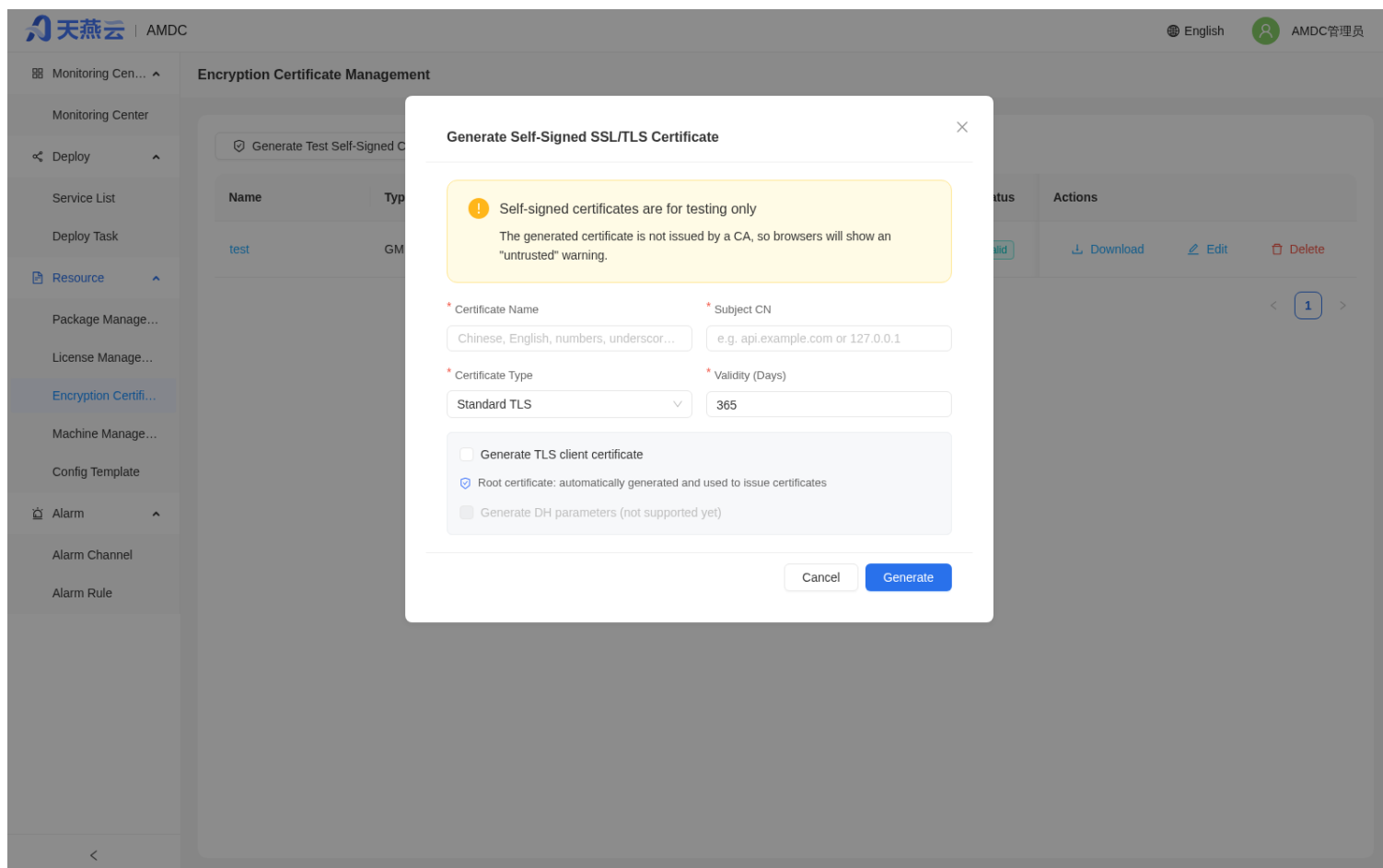
Name	Type	Issuer	Signature Algorithm	Validity Period	Status	Actions
test	GM TLS	CN=test Root CA	SM2-SM3	2026-09-24 to 2027-09-24	Valid	Download Edit Delete

< 1 >

- Generate a test self-signed certificate

Click the [Generate Test Self-Signed Certificate] button, fill in the certificate name, subject CN, certificate type (Standard TLS), and validity period (days), and optionally choose whether to generate a TLS client certificate; the system automatically generates a CA certificate and uses it for signing.

Note: Self-signed certificates are for testing only. The generated certificate is not signed by a CA, and browsers will show an "untrusted" warning.

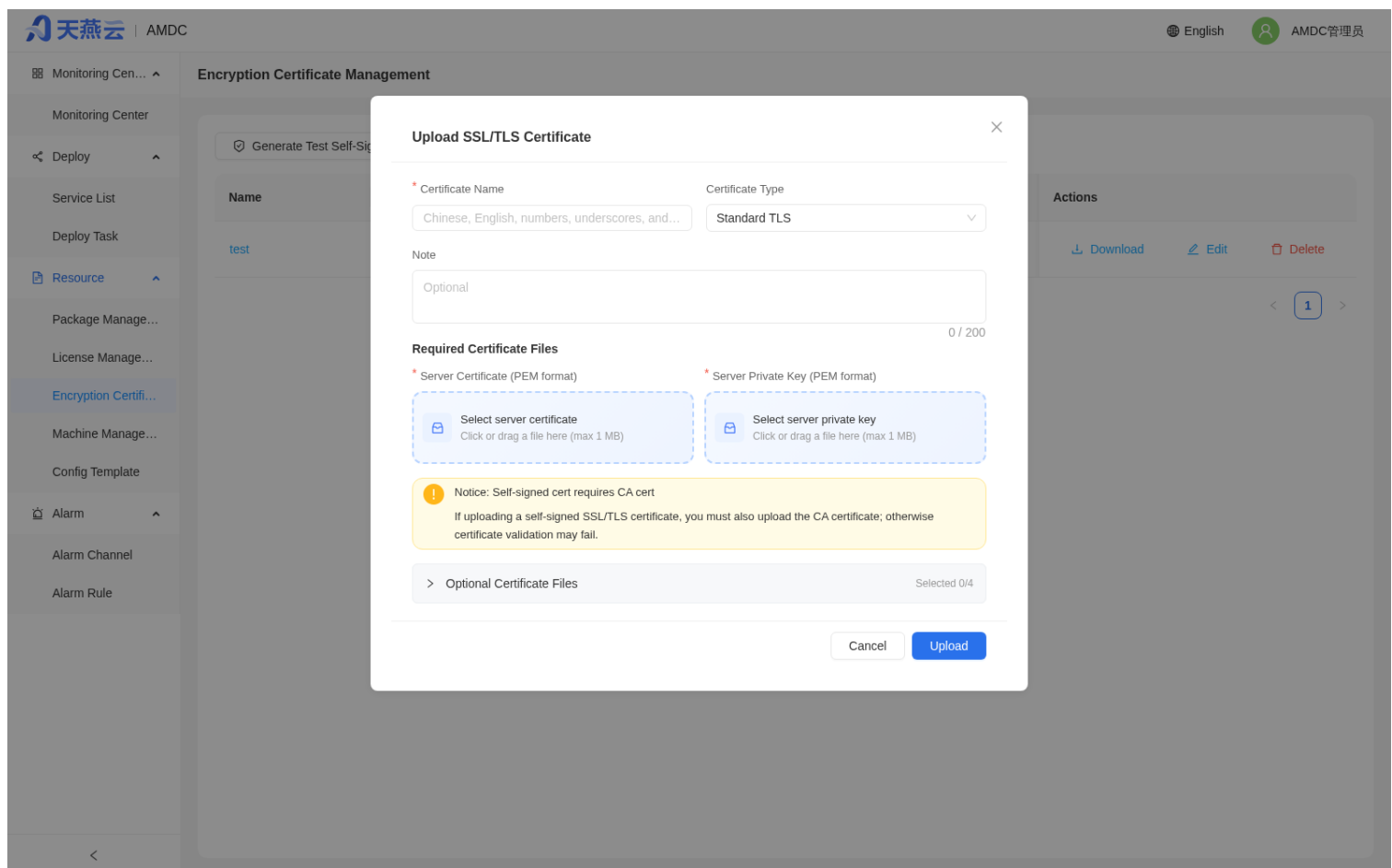


- Upload a certificate

Click the [Upload Certificate] button, fill in the certificate name (only Chinese characters, letters, digits, `_`, and `-` are supported), select the certificate type, and upload PEM-format certificate files (each file no larger than 1 MB):

- **Standard TLS:** upload the server certificate and the server private key;
- **GM TLS:** upload the sign certificate, sign private key, encrypt certificate, and encrypt private key (four-file set).

During upload, the server validates the certificate format (PEM), the match between certificate and private key, and the validity period; if validation fails, the certificate is rejected with a specific reason. If you upload a self-signed SSL/TLS certificate, the CA certificate must be uploaded together, otherwise certificate verification may fail. After a successful upload, the list shows the name, type, issuer, signature algorithm, validity period, and status; when a certificate has less than 30 days before expiry, an expiring-soon reminder is shown in the certificate list and in the deployment selection UI; expired certificates cannot be used for new deployments.



- Delete a certificate

Click the [Delete] button on the right side of the target row. A certificate in use by a cluster cannot be deleted; certificate upload and deletion are recorded in the operation log.

6.2.0.5 Version Management

Version management is used to view and manage the version history of deployed AMDC instances, and supports version rollback operations on instances. Please refer to the actual deployment environment for the current menu entry.

6.3 Configuration Templates

Click [Resource Management] > [Configuration Templates] to enter the configuration templates page, where you can define configuration templates for the cache core and Sentinel, and use the templates in [Automatic Deployment].

Note: Non-public parameters related to IP, port, etc. will not take effect in configuration templates, to ensure the normal operation of automatic deployment.

Monitoring Cen... ^

Config Templates

Monitoring Center

Deploy ^

Service List

Deploy Task

Resource ^

Package Manage...

License Manage...

Encryption Certifi...

Machine Manage...

Config Template

Alarm ^

Alarm Channel

Alarm Rule

Config List +

Please enter ...

Version

All V2.0.4 V2.0.5 V2.0.6

Cache Config (amdc.yaml)

V2.0.6.amdc V2.0.6 ...

V2.0.5.amdc V2.0.5 ...

V2.0.4.amdc V2.0.4 ...

Cache Config (amdc.conf)

V2.0.6.amdc V2.0.6 ...

V2.0.5.amdc V2.0.5 ...

V2.0.4.amdc V2.0.4 ...

Sentinel Config (sentinel.yaml)

V2.0.6.sentinel V2.0.6 ...

V2.0.5.sentinel V2.0.5 ...

V2.0.4.sentinel V2.0.4 ...

Sentinel Config (sentinel.conf)

V2.0.6.sentinel V2.0.6 ...

Edit Save Init Reset Set Default

```
1 NETWORK:
2 # Network addresses to listen on; by default only the loopback address is listened on
3 bind:
4 # Force all outbound connections to be sent from the specified local IP; unset by default so the OS routing table picks the source IP
5 bind-source-addr: ""
6 # TCP port to listen on; set to 0 to disable the TCP socket
7 port: 6359
8 # Protected modes when bind is not specified and no password is set, only loopback and Unix domain socket connections are allowed
9 protected-mode: no
10 # MPTCP (Multipath TCP) enables concurrent transfer over multiple links to improve aggregated bandwidth and throughput; requires Linux 5.6 or later
11 mptcp-enabled: no
12 # TCP backlog size; the effective value may be limited by the system's somaxconn and tcp_max_syn_backlog
13 tcp-backlog: 511
14 # Unix domain socket path; if not specified, no Unix socket is listened on
15 unixsocket: ""
16 # Permissions of the Unix domain socket
17 unixsocketperm: 0
18 # Idle client timeout in seconds; 0 disables it
19 timeout: 0
20 # TCP keepalive interval in seconds, used to detect dead connections and keep connections alive
21 tcp-keepalive: 300
22 # Mark ID assigned to the listening socket for advanced routing and traffic filtering; defaults to 0, meaning socket marking is off with no extra routing/filter binding
23 socket-mark-id: 0
24
25 GENERAL:
26 # Whether to run as a daemon
27 daemonize: no
28 # Interaction mode with process supervisors (upstart/systemd); no interaction by default
29 supervised: no
30 # pid file path
31 pidfile: "/var/run/amdc_6359.pid"
32 loglevel: notice
33 # Log file path; an empty string means writing to standard output
34 logfile: ""
35 # Whether to enable syslog
36 syslog-enabled: no
37 # Syslog facility
38 syslog-facility: "AMDC"
39 # Syslog facility; must be USER or LOCAL0-LOCAL7
40 crash-log-enabled: yes
41 # Whether to enable crash logging
42 crash-memcheck-enabled: yes
43 # Whether to enable Fast memory checks in crash logs
44 worker-threads: 1
45 # Number of worker threads; defaults to 1
46 databases: 16
47 # Whether to show the ASCII art logo in startup logs; by default only interactive sessions show it
48 always-show-logo: no
49 # Whether to modify the process title to show runtime information
50 set-proc-title: yes
51 # Process title template, supports multiple variables
52 proc-title-template: "[title] ([listen-addr]) ([server-mode])"
53 # Locale rules for string comparison and sorting; empty inherits the language settings from system environment variables
54 locale-collate: ""
55
56 MODULES:
57 # Load the specified modules at startup; the server aborts startup if loading fails; may be used multiple times to load multiple modules
58 loadmodule: ""
59
60 TLS/SSL:
61 # TLS listen port; use together with port 0 to enable TLS only
```

7 Core Operation Flows

This section is organized by actual operations tasks and introduces how to complete the full lifecycle operations of services in the console.

7.1 Automatically Deploy a New Service

AMDC administrator path: [Deployment Management] > [Automatic Deployment]

After entering the [Automatic Deployment] page, fill in the deployment information in a 4-step wizard:

1. **Basic Configuration:** Service name, deployment mode, installation package, installation directory, AMDC password, sudo, auto-start on boot, etc.
2. **Topology Configuration:** Select automatic/manual topology, configure the number of nodes, port range, machines, and License authorization.
3. **Configuration Templates:** Select the cache core configuration template (Sentinel mode also requires selecting the Sentinel configuration template).
4. **Confirm Deployment:** After confirming the information, save the task or execute it directly.

After filling in the information, you can click [Save Task] to save it only to [Deployment Management] > [Deployment Tasks], or click [Execute Task] to start deployment immediately. Deployment progress and status can be viewed in [Deployment Management] > [Deployment Tasks].

Prerequisites:

- The target server has been added in [Resource Management] > [Machine Management], and the SSH connection is normal.
- The installation package has been uploaded ([Resource Management] > [Package Management]).
- The License has been uploaded ([Resource Management] > [Certificate Management]).
- The target server has the `tar` and `ss` commands.

Basic Configuration Parameters:

Parameter	Meaning
Service Name	Unique identifier of the service; only supports letters, digits, underscores, and hyphens, no more than 24 characters
Deployment Mode	Standalone / master-slave / Sentinel / cluster / pre-generated nodes
Installation	Select an uploaded AMDC installation package version

Package	
Installation Directory	The root directory of the service installation (seat), e.g., /data/redis; nodes are actually located at {seat}/{port}
Encryption Mode	Off (default, TCP plaintext) / Standard TLS / GM TLS; when enabled, an uploaded TLS certificate of the matching type must be selected
AMDC Password	Cache core management password; click the settings button to configure complexity rules
sudo	Whether to use sudo privileges to execute installation commands
Auto-start on Boot	Whether the service runs automatically when the system starts

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Monitoring Cen... ^

Monitoring Center

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Service List

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Package Manage...

License Manage...

Encryption Certifi...

Machine Manage...

Config Template

Alarm ^

Alarm Channel

Alarm Rule

1 Basic Config

2 Topology Config

3 Config Template

4 Confirm Deploy

Basic service information

Node and machine configuration

Cache config template

Confirm and execute

Please confirm package, license, and machine info are uploaded. Default config can be used; modify in config management.

Install Package: View

License: View

Machine Management: View

Config Management: View

Encryption Certificate: View

Basic Information

* Service Name ⓘ

Service Name

Deploy Settings

* Deploy Mode ⓘ

Standalone

Single node standalone

Easy to use Quick deploy

For development/testing

Master-Slave

One master with slaves data replication

Data backup Read/Write split

HA foundation

Sentinel

Sentinel monitoring auto failover

Auto failover Monitoring

Production ready

Cluster

Distributed cluster HA

Data sharding Horizontal scaling

Large-scale scenarios

* Install Package ⓘ

Install Package

Cancel

Reset

Next

You can use the auto-start on boot option to make the service start automatically after deployment is complete

AMDC

English
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Monitoring Cen... ^
Monitoring Center
Deploy ^
Service List
Deploy Task
Resource ^
Package Manage...
License Manage...
Encryption Certifi...
Machine Manage...
Config Template
Alarm ^
Alarm Channel
Alarm Rule

1 Basic Config
Basic service information

2 Topology Config
Node and machine configuration

3 Config Template
Cache config template

4 Confirm Deploy
Confirm and execute

Standalone
Single node standalone
Easy to use Quick deploy
For development/testing

Master-Slave
One master with slaves data replication
Data backup Read/Write split
HA foundation

Sentinel
Sentinel monitoring auto failover
Auto failover Monitoring
Production ready

Cluster
Distributed cluster HA
Data sharding Horizontal scaling
Large-scale scenarios

* Install Package ⓘ
Install Package

* Install Path ⓘ
e.g.: /data/looper

* Encryption Mode
Disabled

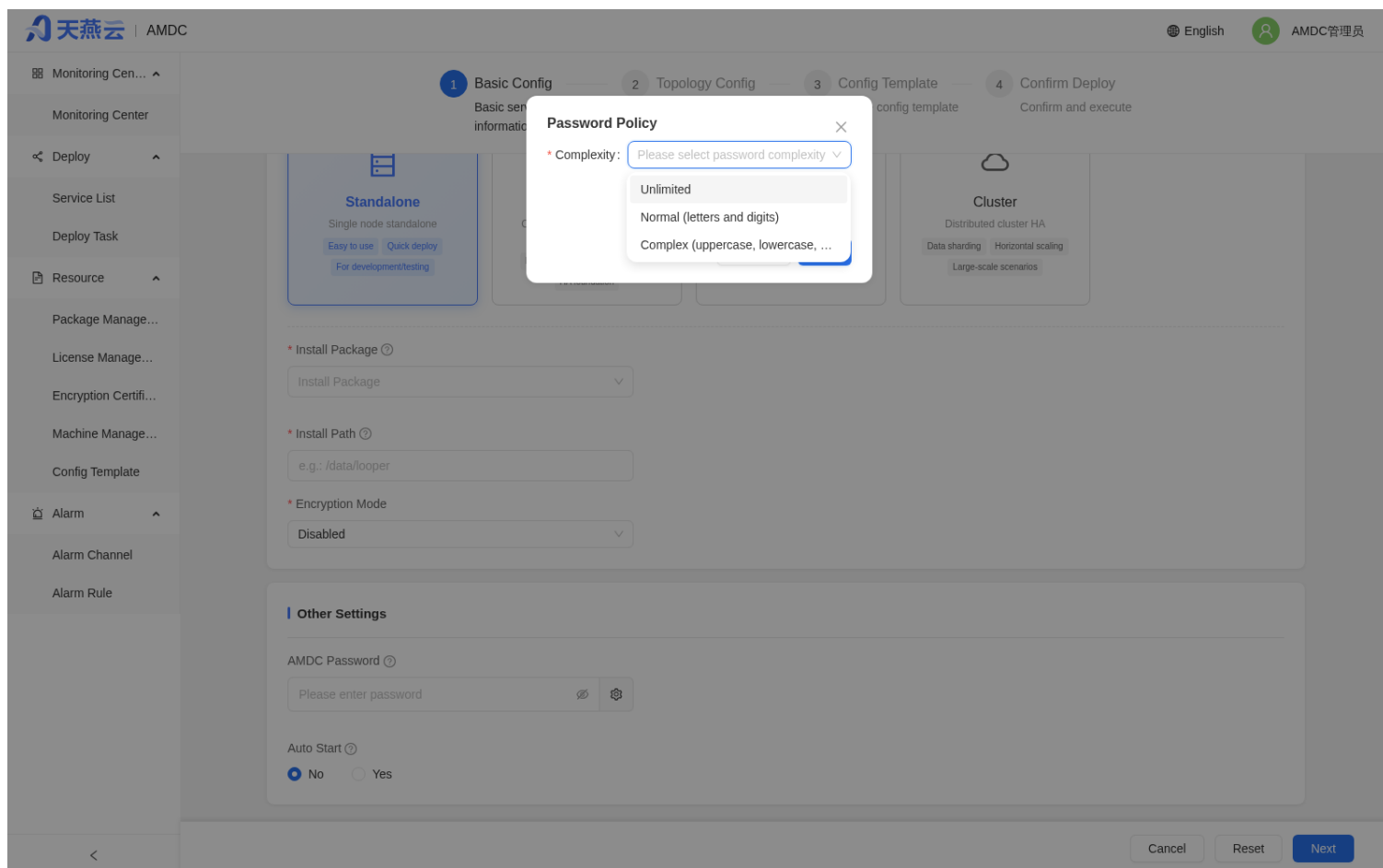
Other Settings

AMDC Password ⓘ
Please enter password

Auto Start ⓘ
☒ No ☐ Yes

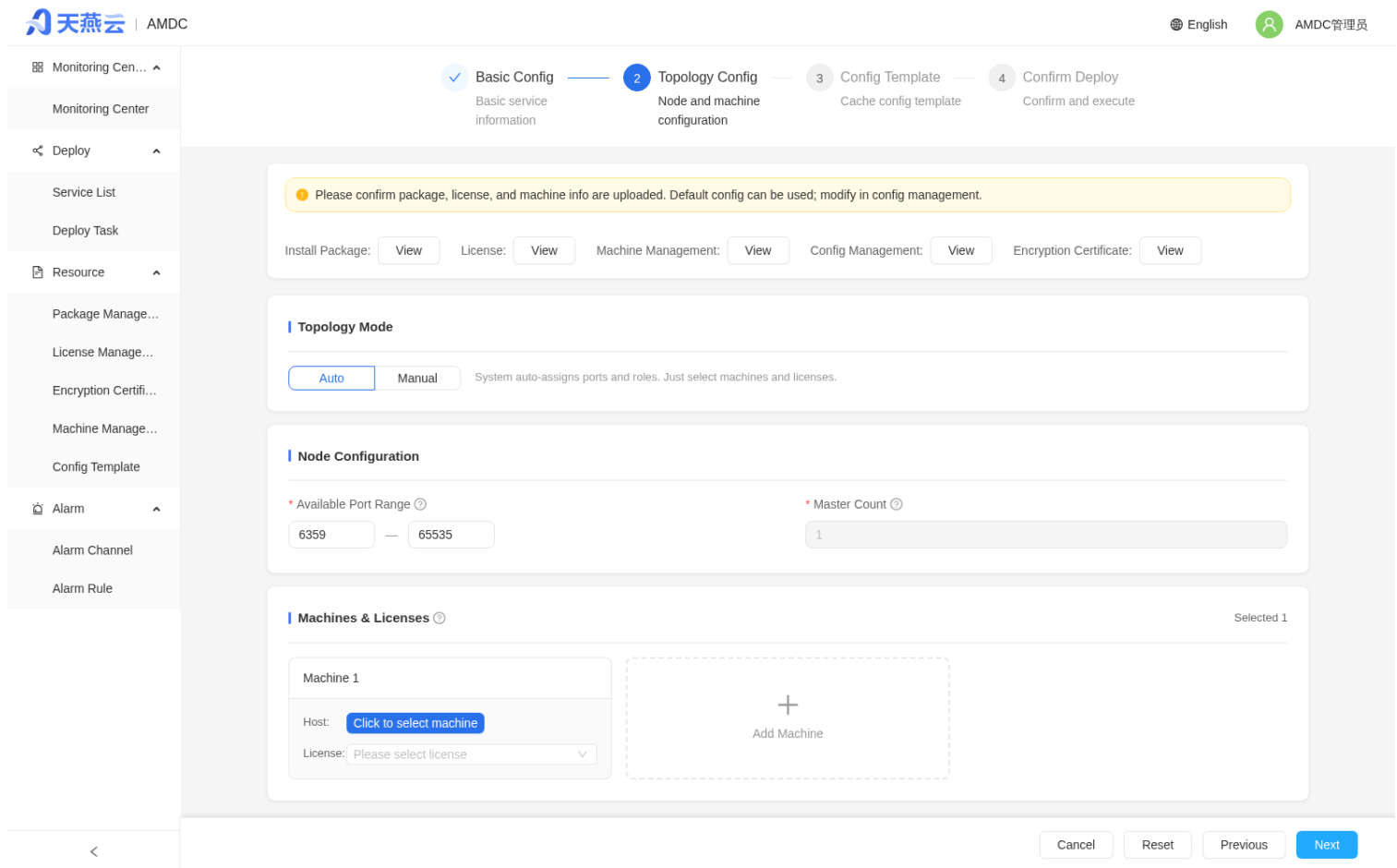
Cancel Reset Next

The settings behind the password lead to the password format requirements settings interface, where you can set password complexity and length



Topology Configuration Parameters:

Parameter	Meaning
Topology Mode	Automatic: the system automatically assigns ports and roles; Manual: configure the machine, port, role, and license for each node
Available Port Range	The start and end ports for automatically assigned node service ports, default 6359–65535
Number of Master Nodes	The number of master nodes; cluster mode requires at least 3
Number of Slave Nodes	The number of slave nodes corresponding to each master node
Number of Sentinel Nodes	Dedicated to Sentinel mode; 3 or more recommended to ensure high availability
Machines and Licenses	Select the deployment machines and select License authorization for machines (non-Sentinel nodes); all machines must be in the same machine group



7.1.0.1 Automatically Deploy in Standalone Mode

Before automatic deployment in the console, ensure that the target server connection is normal, the target server has been added to the machine list (refer to Machine Management), and the target server has the tar and ss commands.

Operation steps:

1. Select [Standalone] mode in the basic configuration; the default number of master nodes is 1 and slave nodes is 0.
2. Select machines and assign Licenses in the topology configuration.
3. After confirming the deployment information, click the [Install] button to perform one-click deployment.

Verify the automatic deployment result: click the [Deployment Management] > [Service List] menu to check whether the cluster has been generated and its status is healthy. You can use [Command Line] for further verification.

7.1.0.2 Automatically Deploy in Master-Slave Mode

Before automatic deployment in master-slave mode in the console, ensure that the target server connection is normal and the target server has been added to the machine list (refer to Machine Management).

Operation steps:

1. Select [Master-Slave] mode in the basic configuration, and select the AMDC core installation package and License according to the page content.
2. Select machines, configure the number of master-slave nodes, and assign Licenses in the topology configuration.
3. Click [Install] to automatically complete the master-slave deployment.

7.1.0.3 Auto-deploying Sentinel Mode

Before auto-deploying Sentinel mode from the console, make sure the target servers are reachable and have been added to the machine list (see Machine Management).

Steps:

1. Select the [Sentinel] mode in the basic configuration.
2. In the topology configuration, select machines, configure the number of master/slave nodes and Sentinel nodes, and assign licenses.
3. Select the Sentinel configuration template in the configuration template step.
4. Click [Install] to automatically complete the Sentinel deployment.

7.1.0.4 Auto-deploying Pre-generated Node Mode

Pre-generated nodes are used in scenarios such as smooth migration: cluster nodes are deployed in advance but do not join the cluster (no `CLUSTER MEET` is executed), so they can be switched over directly during migration.

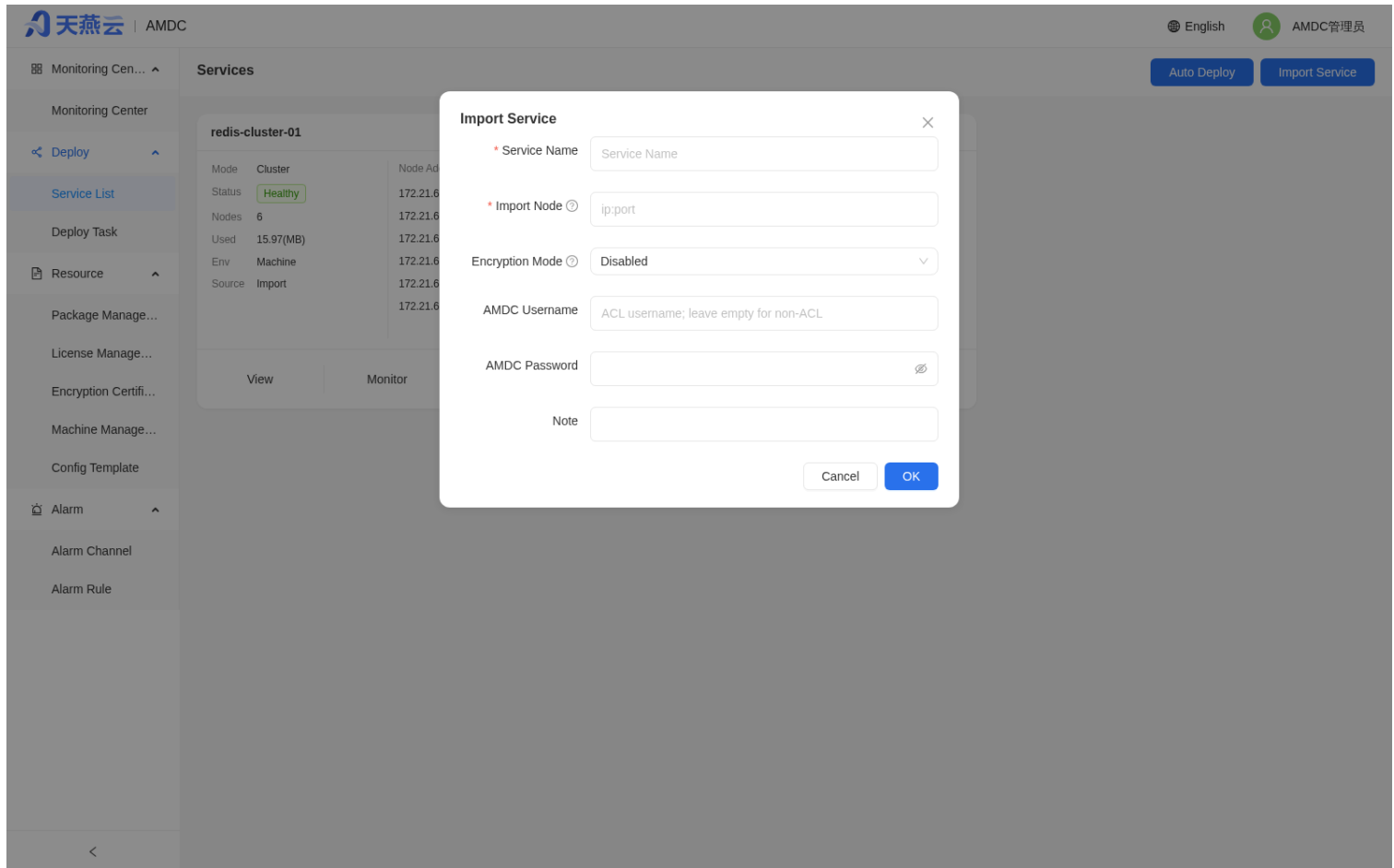
Steps:

1. Select the [Pre-generated Nodes] mode in the basic configuration.
2. Configure the number of nodes, machines, and licenses as in Cluster mode.
3. After deployment, the nodes remain in standby state and can later be selected in [Smooth Migration].

7.2 Importing an Existing Cluster or Standalone Instance

For AMDC cache cores that were not deployed by the console, you can import them into the console to perform monitoring, modification, command execution, and other operations. Go to the service list and click the [+] import button, then fill in the information of the cluster/standalone instance to be monitored as prompted on the page.

Parameter	Description
Cluster Name	Custom cluster name
AMDC Password	Password of the AMDC cache core
AMDC Node	IP:port of the AMDC cache core



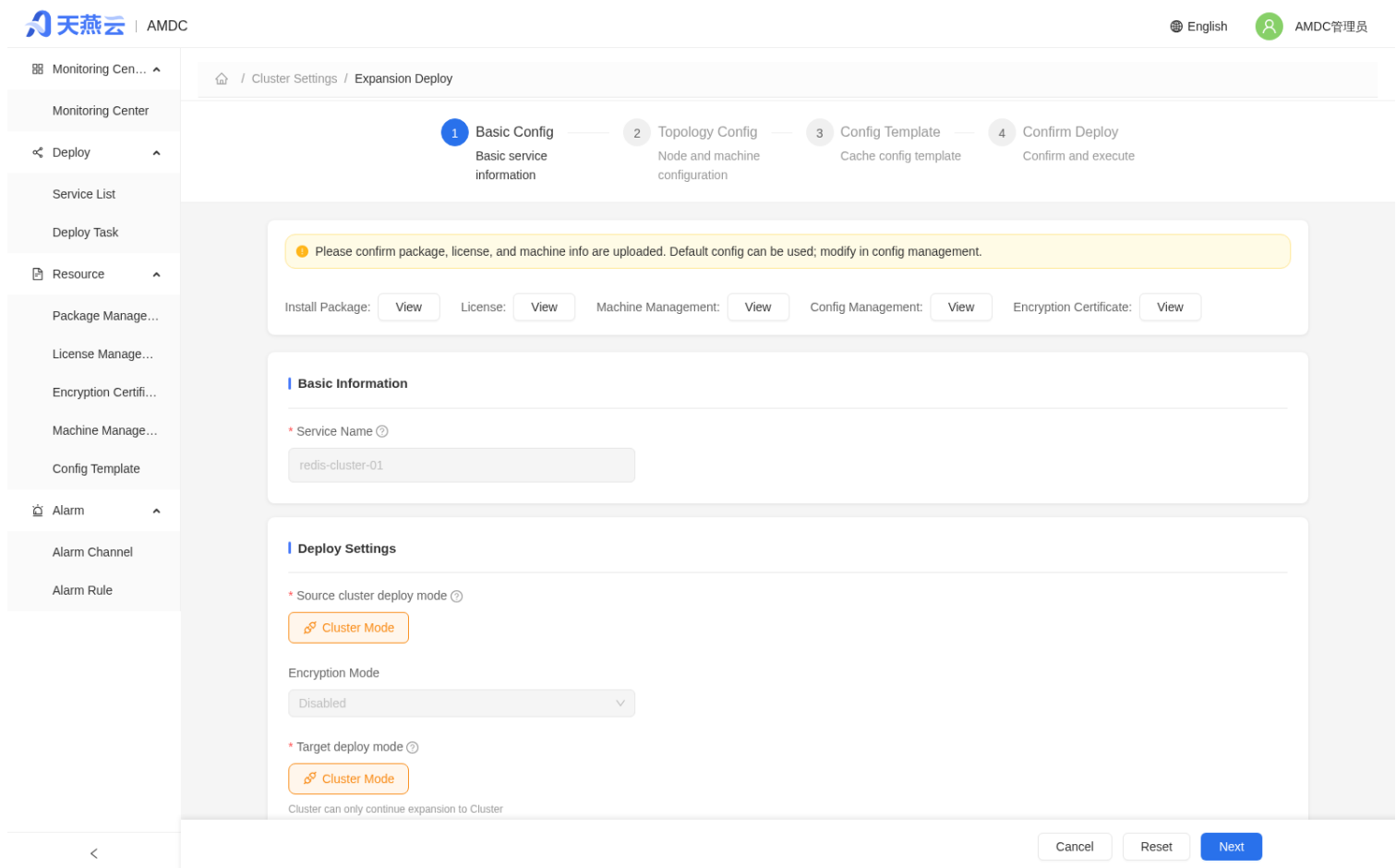
7.3 Scaling Out Nodes

Click the [Scale Out] button to jump to the auto scale-out page, where you can add slave nodes in master-slave mode or add nodes in Cluster mode.

The original cluster service name is inherited during scale-out and cannot be modified; the selectable range of the target deployment mode is limited by the original mode:

- **Standalone** → can be scaled out to **Master-Slave** or **Sentinel**
- **Master-Slave** → can be scaled out to **Master-Slave** or **Sentinel**
- **Sentinel** → can only be scaled out to **Sentinel**
- **Cluster** → can only be scaled out to **Cluster**

The scale-out wizard is the same as auto deployment and consists of 4 steps: basic configuration, topology configuration, configuration template, and deployment confirmation. The topology configuration is pre-filled with the original cluster information; adjust the number of nodes, machines, and licenses as needed and then execute.



7.4 Removing Nodes (Scale In)

Go to Service Details > [Settings], select the node to operate on, and click the [Node Operations] drop-down menu:

天燕云 | AMDC

English
AMDC管理员

Monitoring Cen... ^

Monitoring Center

Deploy ^

Service List

Deploy Task

Resource ^

Package Manage...

License Manage...

Encryption Certifi...

Machine Manage...

Config Template

Alarm ^

Alarm Channel

Alarm Rule

/ Service List / Settings

redis-cluster-01 Healthy
Model Cluster | Machine Group Not Linked | Master 3 | Slave 3 | Encryption Mode Off

Nodes Tasks Connections Data Management

Command Line Start Stop Restart Expand Node Operations v

Link Machines Backup/Restore v Configuration v U Clear Cluster Ops v Update License

☐ Connection Status

☒ Connected

☐ Connected

☐ Connected

☐ Connected

☐ Connected

☐ Connected

☐ Connected

Identity master slave master slave master slave

Run Status Running Running Running Running Running Running

Host 172.21.61.46 172.21.61.46 172.21.61.46 172.21.61.46 172.21.61.46 172.21.61.46

Port 7001 7005 7003 7004 7002 7006

Time 2026-09-24 05:35:22 2026-09-24 05:35:22 2026-09-24 05:35:22 2026-09-24 05:35:22 2026-09-24 05:35:22 2026-09-24 05:35:22

Related Machine Not Related Not Related Not Related Not Related Not Related

Auth Code

Node Info

Node Info Config Log Monitor Redis Migrate

Node Info Config Log Monitor Redis Migrate

Node Info Config Log Monitor Redis Migrate

Node Info Config Log Monitor Redis Migrate

Node Info Config Log Monitor Redis Migrate

Node Info Config Log Monitor Redis Migrate

- **Flush:** clears the distributed cache data of the currently selected node. Executed after confirmation.
- **Remove:** removes the selected node from the cluster. Executed after confirmation; if the removed node is a master, the system automatically performs failover or data migration (the specific behavior depends on the deployment mode).

Note: Removing nodes changes the cluster topology. It is recommended to perform this operation during off-peak hours and back up data in advance.

7.5 Cluster Upgrade

Click [Upgrade] in the [Upgrade/Rollback] drop-down menu at the top of the [Settings] page to open the "Cluster Upgrade" drawer.

天燕云 | AMDC

English

AMDC管理员

Monitoring Cen... ^

Monitoring Center

Deploy ^

Service List

Deploy Task

Resource ^

Package Manage...

License Manage...

Encryption Certifi...

Machine Manage...

Config Template

Alarm ^

Alarm Channel

Alarm Rule

Service List / Settings

redis-cluster-01 Healthy Model Cluster | Machine Group Not Linked | Master 3 | Slave 3 | Encryption Mode Off

Nodes

Tasks

Connections

Data Management

Command Line

Start

Stop

Restart

Expand

Node Operations ▾

Link Machines

Backup/Restore ▾

Configuration ▾

Upgrade/Rollback ▾

Cluster Ops ▾

Update License

Connection Status

Identity

Run Status

Host

Port

2026-09-24 05:35:22

Not Related

Node Info

Config

Log

Monitor

Redis Migrate

☒ Connected master Running 172.21.61.46 7001

Connection Status

Identity

Run Status

Host

Port

2026-09-24 05:35:22

Not Related

Node Info

Config

Log

Monitor

Redis Migrate

☐ Connected slave Running 172.21.61.46 7005

Connection Status

Identity

Run Status

Host

Port

2026-09-24 05:35:22

Not Related

Node Info

Config

Log

Monitor

Redis Migrate

☐ Connected master Running 172.21.61.46 7003

Connection Status

Identity

Run Status

Host

Port

2026-09-24 05:35:22

Not Related

Node Info

Config

Log

Monitor

Redis Migrate

☐ Connected slave Running 172.21.61.46 7004

Connection Status

Identity

Run Status

Host

Port

2026-09-24 05:35:22

Not Related

Node Info

Config

Log

Monitor

Redis Migrate

☐ Connected master Running 172.21.61.46 7002

Connection Status

Identity

Run Status

Host

Port

2026-09-24 05:35:22

Not Related

Node Info

Config

Log

Monitor

Redis Migrate

☐ Connected slave Running 172.21.61.46 7006

Upgrade

Rollback

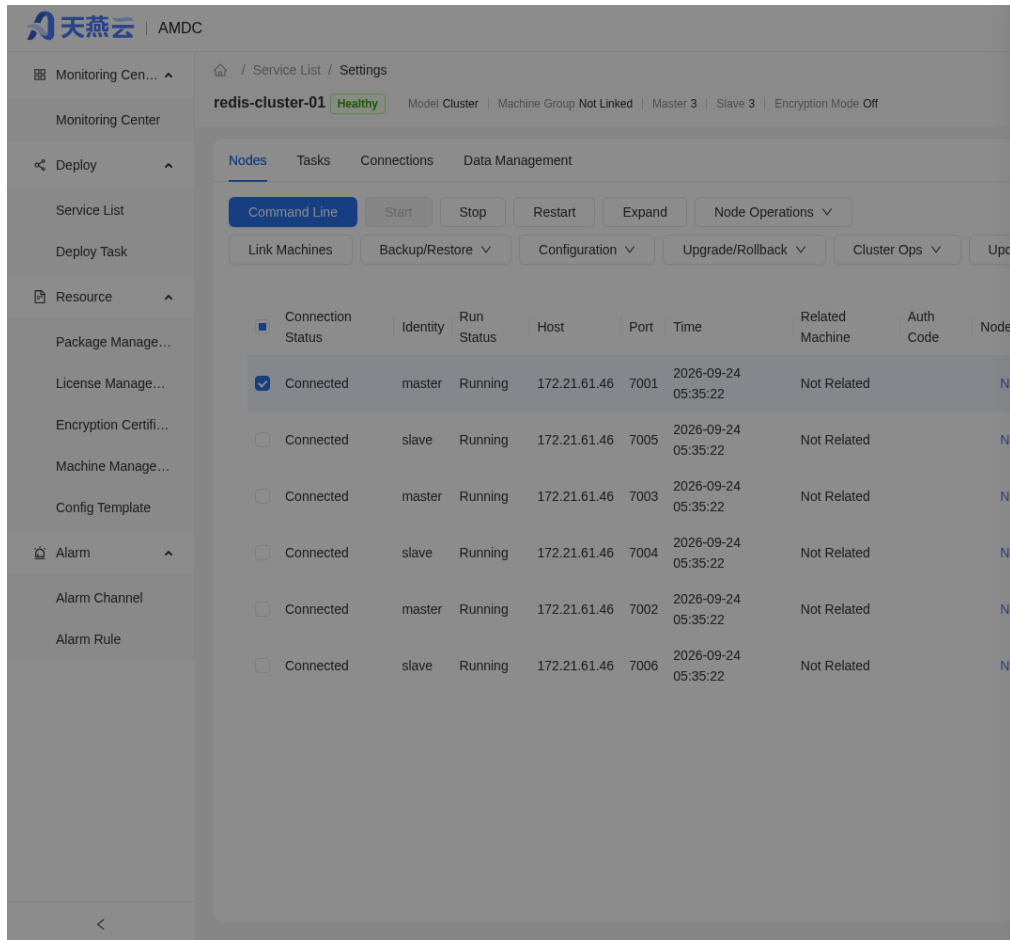
Rolling Upgrade (no downtime, AMDC->AMDC)

Upgrade notes:

- The upgrade **stops the entire cluster** and replaces the binaries; the cluster is unavailable during this period.
- If the upgrade fails, the system automatically rolls back to the pre-upgrade version from the backup.
- Only upgrades to the same or a higher version are supported; to return to an earlier version, use smooth migration.
- Node data is automatically backed up before the upgrade. Make sure each node has sufficient disk space.

Select the installation package to upgrade to in the list and click [Confirm Upgrade]. The system creates an upgrade task and executes it in the background. During the upgrade, you can observe the cluster status in the task list or the Monitoring Center.

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Cluster Upgrade

Upgrade Notes

Upgrade will **stop the entire cluster** and replace binaries, during which the cluster is unavailable.

On upgrade failure, the system will automatically roll back to the pre-upgrade state from backup.

Note: Only same or higher version upgrades are supported; for older versions, use smooth migration.

Note: Node data is automatically backed up before upgrade; please ensure each node has sufficient disk space.

Select the package to upgrade to:

☐ AMDC-V2.0.6-20260921-compat-amd64.tar.gz
Size: 56.6MB Upload Time: 2026-09-24 05:04:53

Cancel

Confirm Upgrade

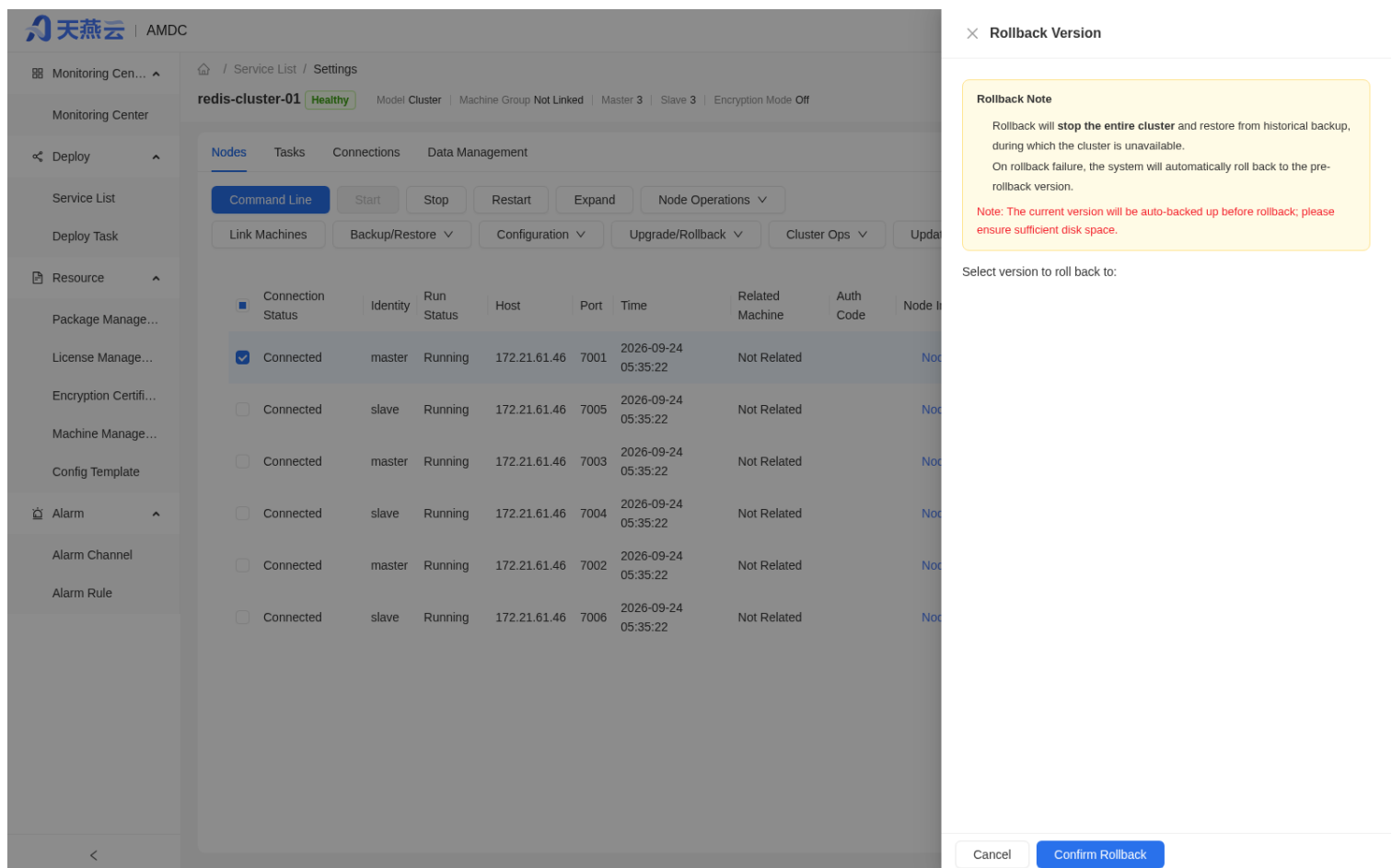
7.6 Version Rollback

Click [Version Rollback] in the [Upgrade/Rollback] drop-down menu at the top of the [Settings] page to open the "Version Rollback" drawer.

Rollback notes:

- The rollback **stops the entire cluster** and restores a historical backup; the cluster is unavailable during this period.
- If the rollback fails, the system automatically rolls back to the pre-rollback version from this backup.
- The current version is automatically backed up before the rollback. Make sure each node has sufficient disk space.

Select the historical version to roll back to in the list (marked as "Upgrade Backup" or "Rollback Snapshot") and click [Confirm Rollback] to execute.



7.7 Business-Non-Interrupting Rolling Upgrade (AMDC→AMDC)

Click [Business-Non-Interrupting Rolling Upgrade (AMDC→AMDC)] in the [Upgrade/Rollback] drop-down menu at the top of the [Settings] page to open the rolling upgrade drawer. Unlike full-stop upgrade, rolling upgrade executes node by node in phases of **slave → master → failback (role restoration) → sentinel**, minimizing business interruption: the cluster is unaffected while slave nodes are being upgraded; while a master node is being upgraded, automatic failover takes over with only a second-level switchover interruption; after all data nodes are upgraded, roles are automatically restored to the pre-upgrade IPs.

Steps:

1. In the drawer, select the [Execution Mode]: **Auto Execute** (default) or **Step-by-Step Confirmation** (the task pauses before upgrading master nodes and before role restoration, showing the topology snapshot and replication status, and continues after confirmation).
2. Select the target installation package in [Select the installation package to upgrade to] (the version must not be lower than the current cluster version).
3. Confirm the default upgrade order generated by the system (nodes of the same role are ordered lexicographically by host:port; master nodes without a slave are highlighted in red), then click [Start Rolling Upgrade] to create a rolling upgrade task.

4. Observe the execution status and logs of each phase and node in the task progress drawer.

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Monitoring Center

Service List

Deploy Task

Resource

Package Manage...

License Manage...

Encryption Certifi...

Machine Manage...

Config Template

Alarm

Alarm Channel

Alarm Rule

Service List / Settings

redis-cluster-01 Healthy Model Cluster Machine Group Not Linked Master 3 Slave 3 Encryption Mode Off

Nodes Tasks Connections Data Management

Command Line Start Stop Restart Expand Node Operations

Link Machines Backup/Restore Configuration Upgrade/Rollback Cluster Ops

Connection Status	Identity	Run Status	Host	Port	Time	Related Machine	Auth Code
☒ Connected	master	Running	172.21.61.46	7001	2026-09-24 05:35:22	Not Related	
☐ Connected	slave	Running	172.21.61.46	7005	2026-09-24 05:35:22	Not Related	
☐ Connected	master	Running	172.21.61.46	7003	2026-09-24 05:35:22	Not Related	
☐ Connected	slave	Running	172.21.61.46	7004	2026-09-24 05:35:22	Not Related	
☐ Connected	master	Running	172.21.61.46	7002	2026-09-24 05:35:22	Not Related	
☐ Connected	slave	Running	172.21.61.46	7006	2026-09-24 05:35:22	Not Related	

Rolling Upgrade without Service Interruption (AMDC → AMDC)

Rolling Upgrade Notes

Rolling upgrade in phases: slave → master → failback → sentinel, minimizing service interruption. If any node upgrade fails, that node is auto-rolled back and the entire rolling sequence is aborted.

Execution Mode

☒ Auto Execute ☐ Step Confirm

Select the package to upgrade to:

☐ AMDC-V2.0.6-20260921-compat-amd64.tar.gz
Size: 56.6MB Uploaded: 2026-09-24 05:04:53

Cancel

Start Rolling Upgrade

Notes and constraints:

- Supports AMDC clusters in master-slave, Sentinel, and cluster modes; after the upgrade, the service role on each IP remains consistent with that before the upgrade.
- If any node fails to upgrade, that node is automatically rolled back and the entire rolling sequence is aborted immediately, with the task marked as failed; nodes already upgraded keep the new version and are not rolled back; if role restoration fails, perform failback manually as prompted.
- Before upgrading master nodes, ensure each master has at least one available slave; otherwise the corresponding slots/write service are briefly unavailable during the upgrade.
- It is recommended to execute during off-peak business hours; after a service restart, the task supports resuming from the current phase breakpoint.

Note: Go-version services do not support this kind of upgrade or migration. The Go-version data service process does not support replacing binaries as a whole in a rolling manner; the drawer serves only as a reserved entry. Please use [Single-Node Upgrade] to replace nodes one by one (not available in cluster mode), use [Smooth Migration] with a newly created cluster, or deploy the new-version binaries directly and restart nodes in a rolling manner.

7.8 Smooth Migration

Click [Smooth Migration] in the [Cluster Operations] drop-down menu at the top of the [Settings] page to migrate data from the current cluster to a target cluster.

The screenshot shows the AMDC console interface. The top navigation bar includes the AMDC logo, language settings (English), and the user role (AMDC管理员). The main content area is titled 'Service List / Settings' and shows the configuration for 'redis-cluster-01' (Healthy). The interface includes a sidebar with navigation options like Monitoring Center, Deploy, Service List, and Resource. The main area displays the 'Nodes' tab, showing a table of nodes with columns for Connection Status, Identity, Run Status, Host, Port, Time, and Relat Mach. A 'Cluster Ops' dropdown menu is open, showing options like Smooth Migration, Rolling Migration (Redis -> AMDC), Alarm Records, ACL Management, View Topology, Refresh Nodes, and Release Control. The table lists several nodes, including master and slave nodes, with their respective IP addresses, ports, and connection times.

Connection Status	Identity	Run Status	Host	Port	Time	Relat Mach
☒ Connected	master	Running	172.21.61.46	7001	2026-09-24 05:35:22	Not R
☐ Connected	slave	Running	172.21.61.46	7005	2026-09-24 05:35:22	Not R
☐ Connected	master	Running	172.21.61.46	7003	2026-09-24 05:35:22	Not R
☐ Connected	slave	Running	172.21.61.46	7004	2026-09-24 05:35:22	Not Related
☐ Connected	master	Running	172.21.61.46	7002	2026-09-24 05:35:22	Not Related
☐ Connected	slave	Running	172.21.61.46	7006	2026-09-24 05:35:22	Not Related

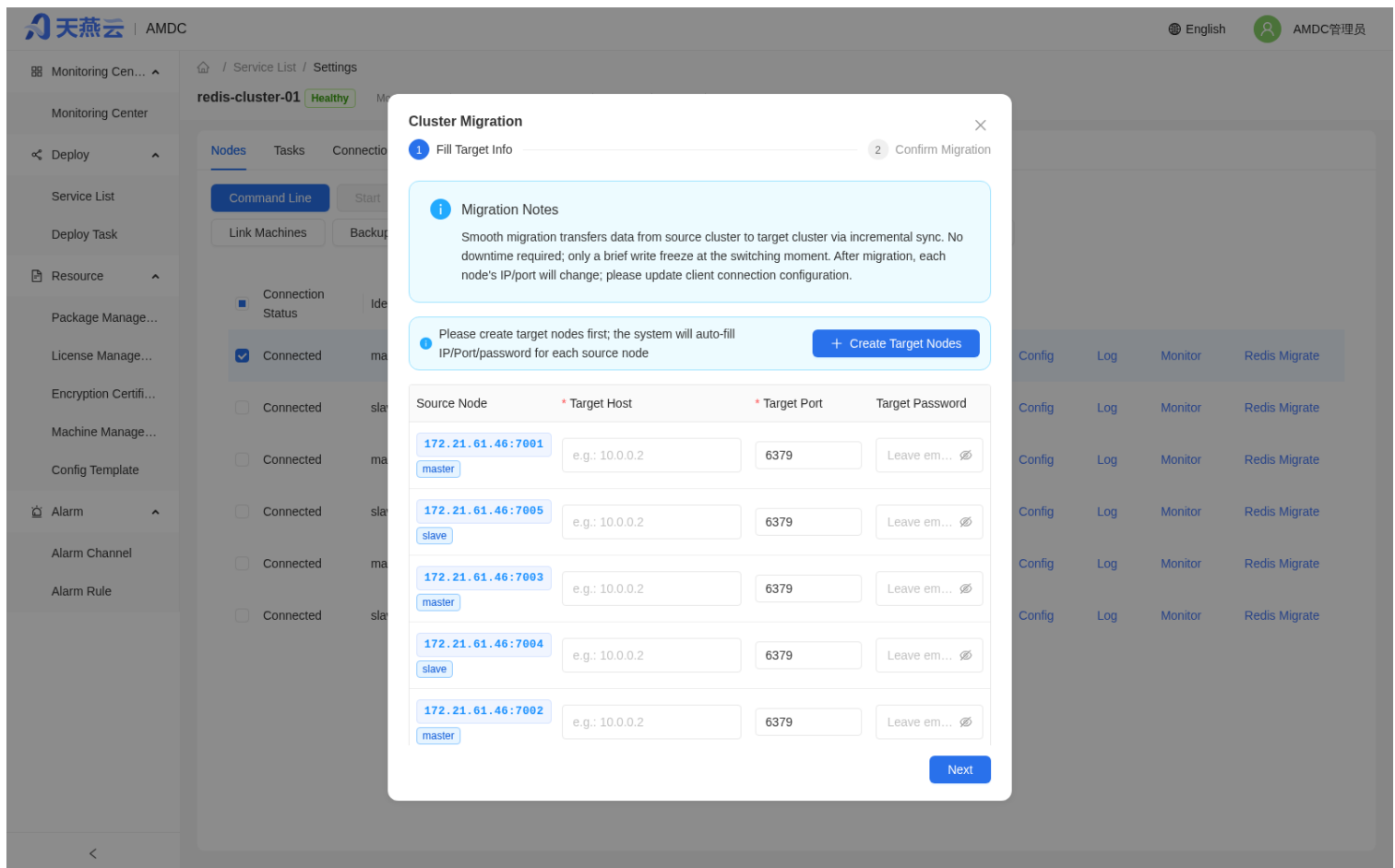
Migration notes:

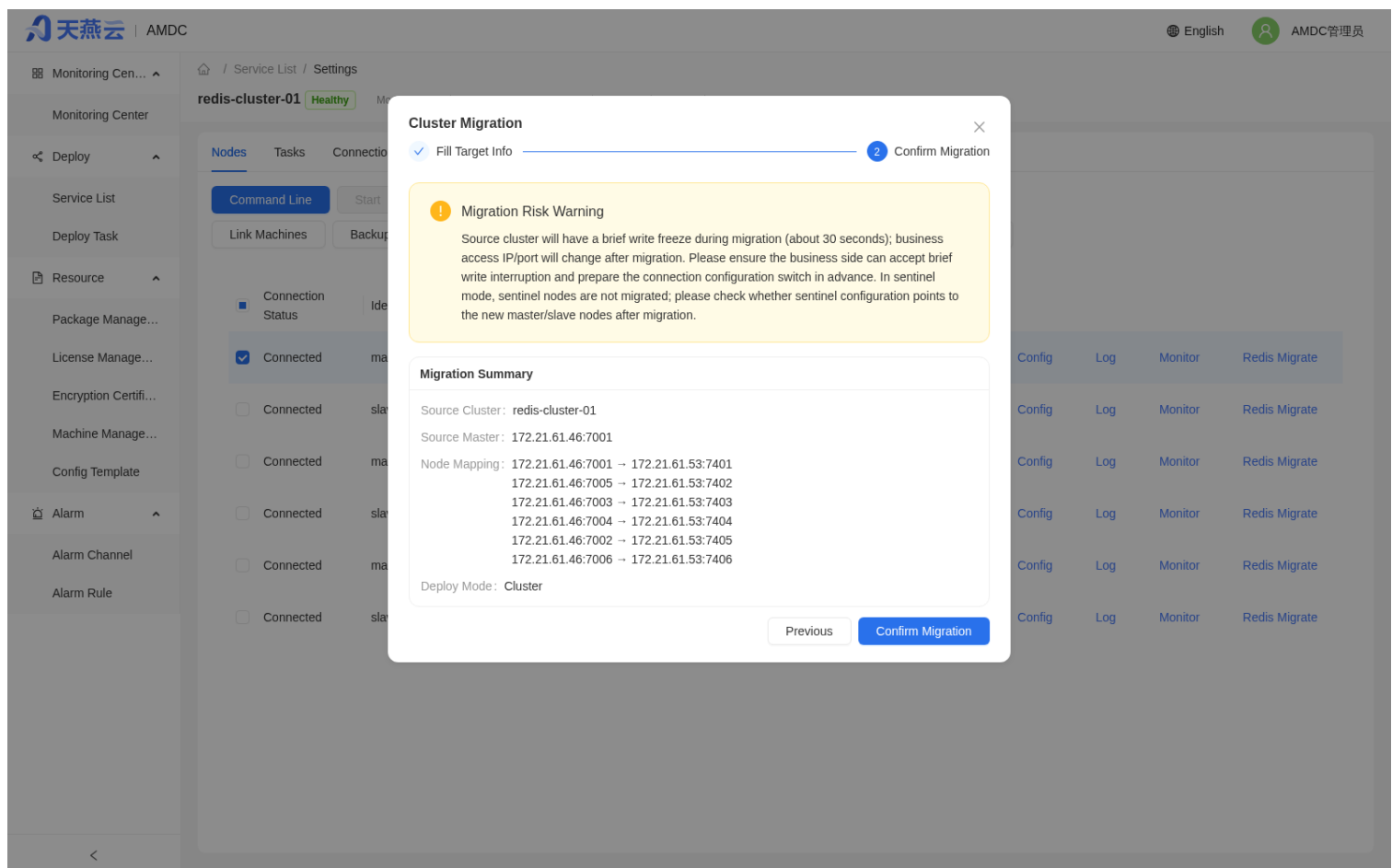
- Smooth migration migrates data from the source cluster to the target cluster through incremental synchronization, with no downtime required during migration.
- There is only a brief write freeze at the moment of switchover.
- After the migration is complete, the business access IP/port will change. Update the client connection configuration in advance.
- In Sentinel mode, Sentinel nodes do not participate in the migration. After migration, check whether the Sentinel configuration points to the new master-slave nodes.

Steps:

1. In the "Cluster Migration" window that pops up, view the migration instructions according to the current mode.

2. Click [Create Target Nodes] and create the target nodes through the auto deployment wizard in the drawer; after creation, the system automatically fills in the target IP/port/password.
 - In Cluster mode, a corresponding target node must be created for each source node.
3. After confirming that the target information is correct, click [Next] to enter the migration confirmation page.
4. Read the migration risk notice: during the migration, the source cluster will experience a brief write freeze (about 30 seconds). Make sure the business side can tolerate a short write interruption and prepare a connection configuration switchover plan in advance.
5. After confirming the information, execute the migration. The system displays the migration progress.





7.9 Business-Non-Interrupting Rolling Migration (Redis→AMDC)

Click [Business-Non-Interrupting Rolling Migration (Redis→AMDC)] in the [Cluster Operations] drop-down menu at the top of the [Settings] page to replace a managed native Redis cluster (master-slave / Sentinel / cluster mode) with AMDC node by node in a rolling manner, with essentially no business interruption.

Migration notes:

- Redis nodes are migrated to AMDC in rolling phases of **slave → master → failback**; nodes that are already AMDC do not participate in this plan.
- Before each node is migrated, the system automatically backs up `redis.conf`, the data files (rdb/aof), and the binaries; during migration, the original Redis configuration is converted to the target-version AMDC configuration (`amdc.conf` / `sentinel.conf`).
- If any node fails to migrate, that node is automatically rolled back to its Redis form and the entire rolling sequence is aborted.
- After a successful migration, the node type is flipped to AMDC; after all data nodes are migrated, role restoration (failback) is executed so that the role on each IP is consistent with that before the migration.

Steps:

1. In the drawer, select the [Execution Mode]: **Auto Execute** (default) or **Step-by-Step Confirmation**.
2. Select the target AMDC installation package in [Select the installation package to migrate to].
3. In migration mode, select a valid License for each data node (master/slave); sentinel nodes do not require a License.
4. After confirming the migration plan, click [Start Rolling Migration] and observe the execution in the task progress drawer.

天燕云 | AMDC

Monitoring Cen... / Service List / Settings

redis-cluster-01 Healthy Model Cluster Machine Group Not Linked Master 3 Slave 3 Encryption Mode Off

Nodes Tasks Connections Data Management

Command Line

Start Stop Restart Expand Node Operations

Link Machines Backup/Restore Configuration Upgrade/Rollback Cluster Ops

Connection Status	Identity	Run Status	Host	Port	Time	Related Machine	Auth Code
☒ Connected	master	Running	172.21.61.46	7001	2026-09-24 05:35:22	Not Related	
☐ Connected	slave	Running	172.21.61.46	7005	2026-09-24 05:35:22	Not Related	
☐ Connected	master	Running	172.21.61.46	7003	2026-09-24 05:35:22	Not Related	
☐ Connected	slave	Running	172.21.61.46	7004	2026-09-24 05:35:22	Not Related	
☐ Connected	master	Running	172.21.61.46	7002	2026-09-24 05:35:22	Not Related	
☐ Connected	slave	Running	172.21.61.46	7006	2026-09-24 05:35:22	Not Related	

Rolling Migration without Service Interruption (Redis → AMDC)

Rolling Migration Notes

Rolling migration in phases: slave → master → failback, migrating Redis nodes to AMDC. Already-AMDC nodes are skipped; minimize service interruption. If any node migration fails, that node is auto-rolled back to Redis and the entire rolling sequence is aborted.

Migration Notes

Each node's redis.conf, data files (rdb/aof) and binary are auto-backed up before migration. If any node migration fails, that node is auto-rolled back to Redis and the entire rolling sequence is aborted.

Note: only Redis nodes are migrated; nodes already migrated to AMDC are not part of this plan.

Execution Mode

☒ Auto Execute
☐ Step Confirm

Select the package to migrate to:

☐ AMDC-V2.0.6-20260921-compat-amd64.tar.gz
Size: 56.6MB Uploaded: 2026-09-24 05:04:53

Cancel

Start Rolling Migration

Note: Go-version services do not support this kind of upgrade or migration; in this scenario, use [Smooth Migration] with a newly created cluster instead.

7.10 Refreshing Nodes and Associating Machines

7.10.0.1 Refreshing Nodes

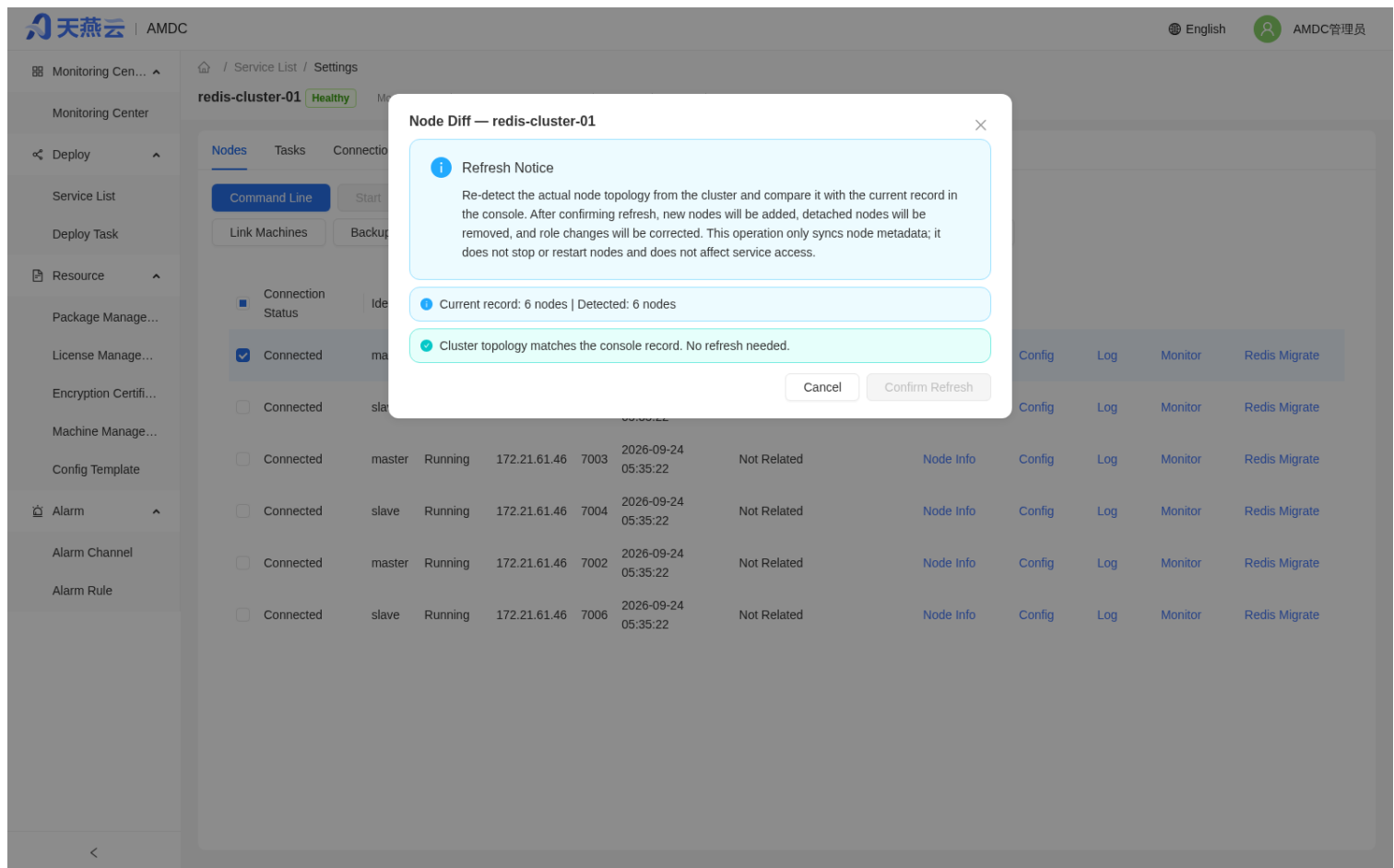
Click [Refresh Nodes] in the [Cluster Operations] drop-down menu at the top of the [Settings] page. The system re-probes the actual cluster node topology and compares it with the console's current records.

Refresh notes:

- After the refresh is confirmed, newly added nodes are brought under management, detached nodes are removed, and role changes are corrected.

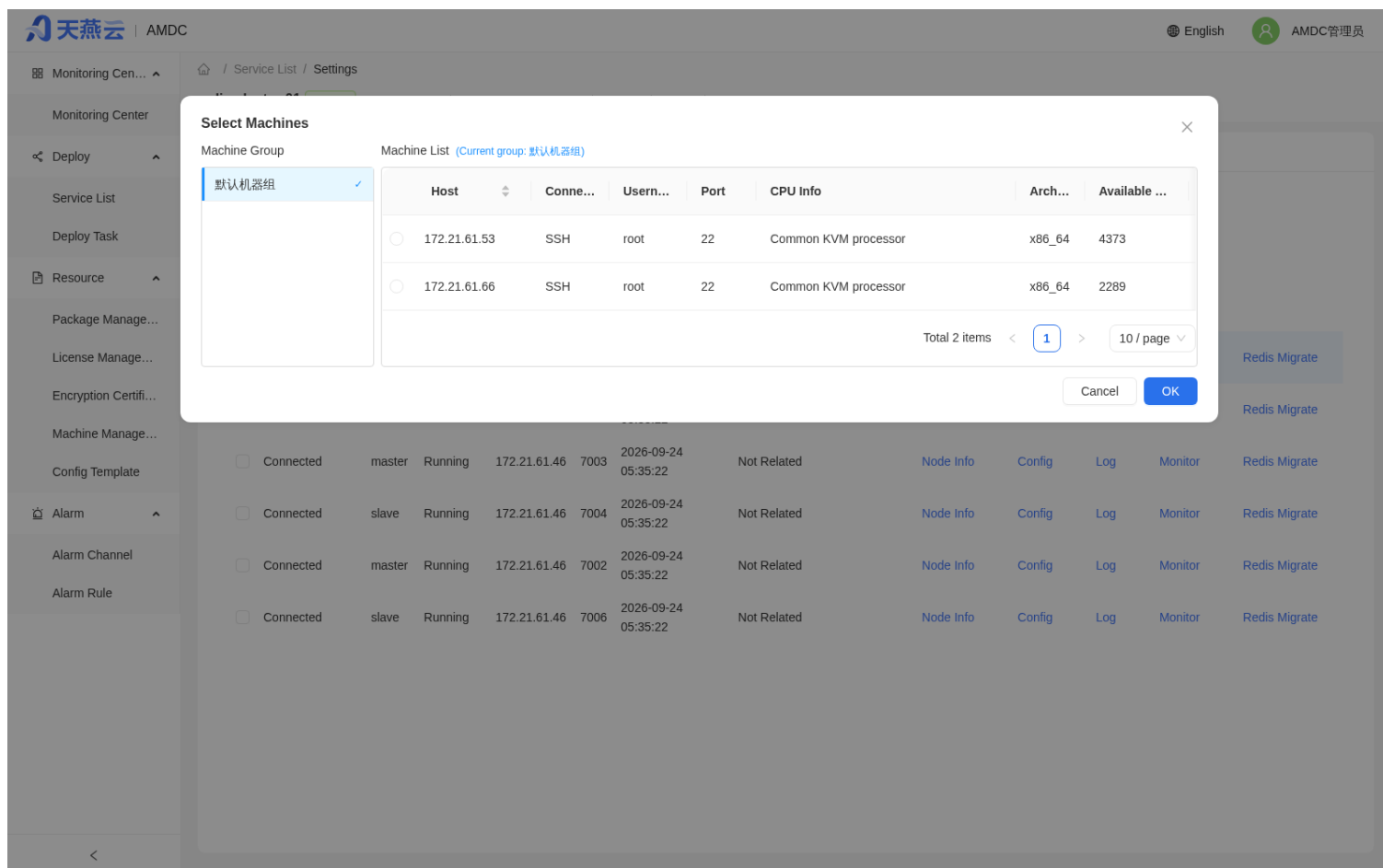
- This operation only synchronizes node metadata; it does not stop or restart nodes and does not affect business access.
- When the number of nodes or roles displayed on the console is inconsistent with the actual cluster, it is recommended to perform a node refresh.

After the refresh is complete, a pop-up window displays the comparison result (the number of currently recorded nodes, the number of actually probed nodes, and a description of the changes).



7.10.0.2 Associating Machines

Go to [Deployment Management] > [Service List], click the service name to enter the service details, and then click [Settings] to enter the cluster settings page. Select the corresponding node and click the [Associate Machine] button to associate the imported node with the machine information, which provides the node with full management capabilities.



7.11 Connection Management (Client Connection Visualization)

On the service details page ([Deployment Management] > [Service List] > click the service name > [Settings]), in addition to the [Nodes] and [Tasks] tabs, the [Connection Management] tab is provided to view the client connection list of a target node in real time and disconnect abnormal connections.

AMDC

English
AMDC管理员

Monitoring Cen...
Service List / Settings
redis-cluster-01 Healthy
Model Cluster | Machine Group Not Linked | Master 3 | Slave 3 | Encryption Mode Off

Nodes Tasks Connections Data Management

Command Line Start Stop Restart Expand Node Operations
Link Machines Backup/Restore Configuration Upgrade/Rollback Cluster Ops Update License

☐	Connection Status	Identity	Run Status	Host	Port	Time	Related Machine	Auth Code	Node Info				
☐	Connected	master	Running	172.21.61.46	7001	2026-09-24 05:35:22	Not Related		Node Info	Config	Log	Monitor	Redis Migrate
☐	Connected	slave	Running	172.21.61.46	7005	2026-09-24 05:35:22	Not Related		Node Info	Config	Log	Monitor	Redis Migrate
☐	Connected	master	Running	172.21.61.46	7003	2026-09-24 05:35:22	Not Related		Node Info	Config	Log	Monitor	Redis Migrate
☐	Connected	slave	Running	172.21.61.46	7004	2026-09-24 05:35:22	Not Related		Node Info	Config	Log	Monitor	Redis Migrate
☐	Connected	master	Running	172.21.61.46	7002	2026-09-24 05:35:22	Not Related		Node Info	Config	Log	Monitor	Redis Migrate
☐	Connected	slave	Running	172.21.61.46	7006	2026-09-24 05:35:22	Not Related		Node Info	Config	Log	Monitor	Redis Migrate

Page notes:

- Node selection:** Use the drop-down box in the upper left of the page to select the node to view (the first master node with a normal connection is automatically selected by default); the list is queried in real time based on `CLIENT LIST` and is not persisted.
- Filtering and refresh:** Supports fuzzy filtering by name and by address; click [Query] to apply the filter conditions; click [Refresh] to refresh manually; [Auto Refresh] supports four levels: Off / 5s / 10s / 30s.
- List fields:** ID, address (one-click copy supported), name, DB, latest command, client.obuf, user, idle duration (sortable), connection duration (sortable), flags; pagination supports 20 / 50 / 100 / 200 items per page.
- Console connection protection:** The connection named `console` is the console's own management connection; do not disconnect it.


AMDC

English
AMDC管理员

Monitoring Cen...

Monitoring Center

Deploy

Service List

Deploy Task

Resource

Package Manage...

License Manage...

Encryption Certifi...

Machine Manage...

Config Template

Alarm

Alarm Channel

Alarm Rule

Service List / Settings

redis-cluster-01 Healthy
Model Cluster
Machine Group Not Linked
Master 3
Slave 3
Encryption Mode Off

Nodes
Tasks
Connections
Data Management

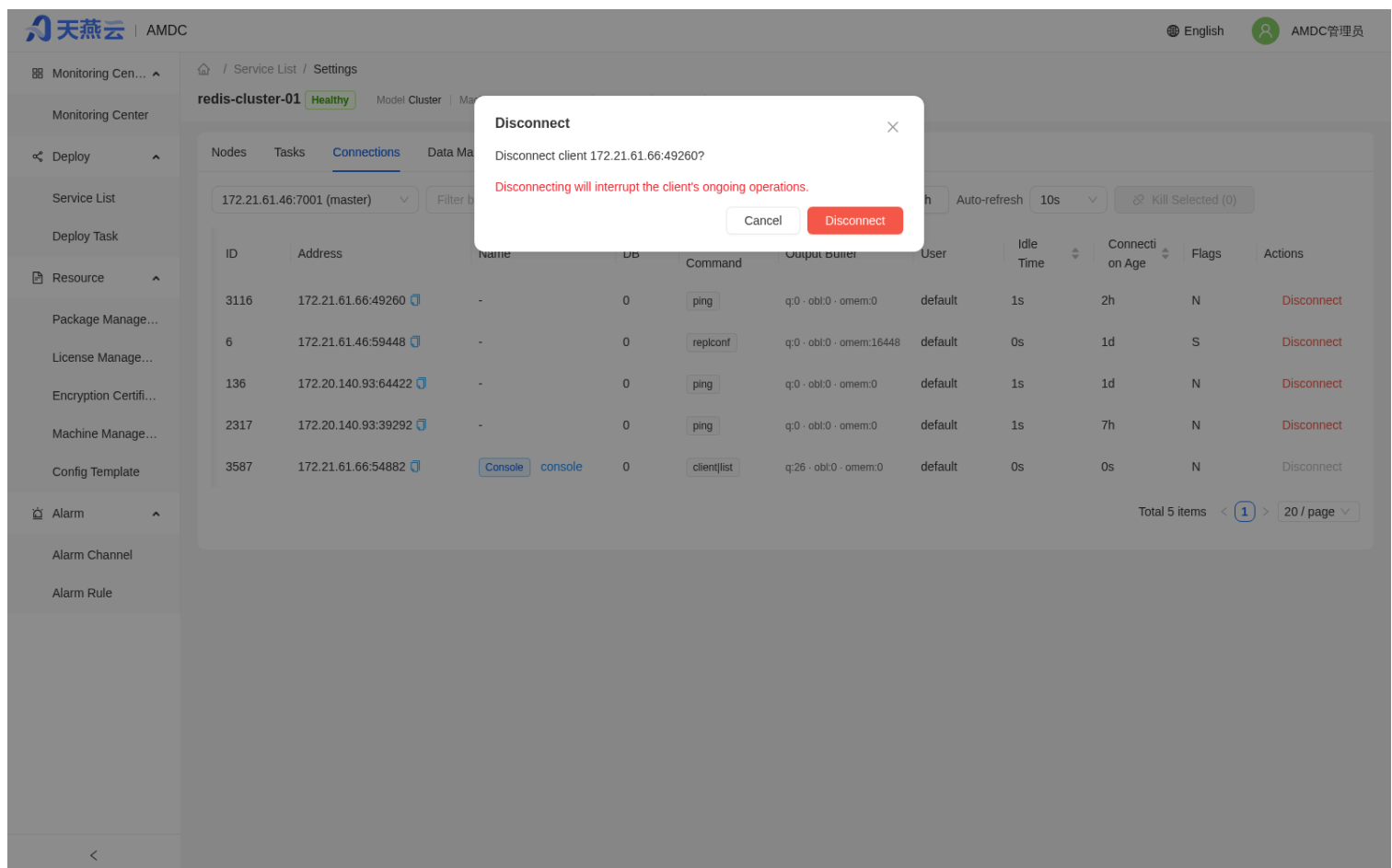
172.21.61.46:7001 (master)
Filter by name
Filter by address
Search
Refresh
Auto-refresh 10s
Kill Selected (0)

ID	Address	Name	DB	Recent Command	Output Buffer	User	Idle Time	Connecti on Age	Flags	Actions
3116	172.21.61.66:49260	-	0	ping	q:0 - obl:0 - omem:0	default	3s	2h	N	Disconnect
6	172.21.61.46:59448	-	0	replconf	q:0 - obl:0 - omem:16448	default	0s	1d	S	Disconnect
136	172.20.140.93:64422	-	0	ping	q:0 - obl:0 - omem:0	default	3s	1d	N	Disconnect
2317	172.20.140.93:39292	-	0	ping	q:0 - obl:0 - omem:0	default	3s	7h	N	Disconnect
3570	172.21.61.66:54790	Console console	0	client list	q:26 - obl:0 - omem:0	default	0s	0s	N	Disconnect

Total 5 items
1
20 / page

Disconnecting connections:

1. Single disconnect: click [Disconnect] on the right side of the target row; batch disconnect: check multiple clients and click [Disconnect Selected] in the upper right.
2. The system pops up a secondary confirmation box with a red warning that "disconnecting a connection will interrupt the ongoing operations of the corresponding client"; after confirmation, `CLIENT KILL` is executed one by one.
3. Successfully disconnected connections are removed from the list immediately; if a batch disconnect partially fails, the numbers of successes and failures are prompted. A disconnected connection may be automatically rebuilt by the client.



Note:

- The disconnect operation can only be performed by the AMDC administrator and tenant administrator roles; other roles can only view. Disconnect operations are recorded in the audit log.
- When the target node's connection status is abnormal, the page prompts "No available Redis node" and does not display incomplete data.
- In cluster mode, only the connections of a single node are queried each time without aggregating all shards; to view other shards, switch nodes manually.

7.12 Data Management (Insight Data Viewing)

The [Data Management] tab on the service details page provides data viewing capabilities (similar to Redis Desktop Manager): confirm whether a key exists, view value content and TTL, and troubleshoot abnormal keys, without logging in to the instance to execute commands.

Page notes:

- **Node selection:** Use the drop-down box in the upper left to select a node; the default is [Auto] (automatically selects the first master node with a normal connection).

- **DB list:** The left side lists the databases available on the node and the number of keys in each DB; cluster mode only supports DB 0.
- **Key scanning:** Enter a match pattern (default `*`), optionally select a data type (string / hash / list / set / zset), and click [Scan]; keys are returned in batches based on `SCAN` with key name, type, TTL, memory usage, and length. A single request returns at most 1000 entries, and the front end scans at most 10000 keys in total; when the limit is exceeded, scanning stops with a prompt to narrow the range with a more precise match pattern.

The screenshot displays the AMDC console interface for managing a Redis cluster. The top navigation bar includes the AMDC logo and user information. The left sidebar contains various management options. The main content area is divided into several sections:

- Monitoring Center:** Overview of the cluster status, showing 'redis-cluster-01' as 'Healthy'.
- Data Management:** The active section, showing a list of databases (db0) and a table of keys. The table includes columns for Key, Type, TTL, Memory, Length, and Actions. Keys listed include 'demo:hello' (string) and 'demo:user' (hash).
- Command Line:** A panel for executing Redis commands. It shows a warning about dangerous/blocking commands being intercepted. The command history includes:


```
Auto [db0]> set demo:doc:hello "Hello AMDC"
OK
Auto [db0]> hset demo:doc:user name "demo" role "tester"
(integer) 2
Auto [db0]> set {demo}:hello "Hello AMDC"
OK
Auto [db0]> hset {demo}:user name "demo" role "tester"
(integer) 2
```

- **Key details:** Click a key name to open the detail panel, which shows the type, TTL, memory usage, encoding, length, and structured value content (string / hash / list / set / zset / stream are supported; string values support JSON formatting and highlighting); a single value larger than 1 MB is truncated with a prompt; if the key has expired or does not exist, a key-not-exist prompt is shown.
- **Command line:** A built-in command line panel at the bottom of the page executes query commands on the selected node (press Enter to execute, `↑↓` to switch history); dangerous/blocking commands such as `FLUSHALL`, `FLUSHDB`, `CONFIG`, `SHUTDOWN`, `DEBUG`, and `KEYS` are blocked by the server-side blacklist, and the rejection reason is prompted when hit; command execution times out after 30 seconds by default, and large results are truncated.

- **Delete key:** Click [Delete] on the right side of the target row; `DEL` is executed after secondary confirmation, and the list refreshes immediately after successful deletion.

The screenshot displays the AMDC console interface for managing a Redis cluster. The top navigation bar includes the AMDC logo, language selection (English), and the user role (AMDC管理员). The left sidebar contains various management options: Monitoring Center, Deploy, Service List, Deploy Task, Resource, Package Manage..., License Manage..., Encryption Certifi..., Machine Manage..., Config Template, Alarm, Alarm Channel, and Alarm Rule.

The main content area is titled "Service List / Settings" and shows the configuration for "redis-cluster-01" (Healthy). Below this, the "Data Management" tab is active, displaying a table of keys. The table has columns for Key, Type, TTL, Memory, Length, and Actions. Two keys are listed: {demo}:hello (string) and {demo}:user (hash). A detail view for {demo}:hello is shown below the table, displaying its type, TTL, memory, encoding, and length.

At the bottom, the "Command Line" section shows a terminal window with the following commands and outputs:

```
Connected to the node command line. Dangerous/blocking commands will be intercepted with the reason.
Auto [db0]> set demo:doc:hello "Hello AMDC"
OK
Auto [db0]> hset demo:doc:user name "demo" role "tester"
(integer) 2
Auto [db0]> set {demo}:hello "Hello AMDC"
OK
```

Note:

- The delete operation can only be performed by the AMDC administrator role; other roles can only view.
- When the target node's connection status is abnormal, the page prompts "No available Redis node".
- Data queries are initiated to the target node in real time and are not persisted; each request creates a new short connection to the target node, which is closed as soon as execution completes.

7.13 Log Rotation

Click the [Log Rotation] button under "More Operations" on the [Settings] page to configure the cluster's log rotation policy, including parameters such as log retention days and single-file size limit.

7.14 Removing from Management

Click the [Remove from Management] button under "More Operations" on the [Cluster Settings] page to remove the cluster from the console's managed state. After removal, the console no longer manages or monitors the cluster, but the cluster itself continues to run.

8 agent CLI User Guide

8.1 Overview

`agent` is a binary program compiled from `cli-http` that interacts with the AMDC Console through HTTP APIs. Unlike `amdc-cli`, which connects directly to the cache core, `agent` targets management operations on the console such as resources, deployment, tasks, and monitoring. It is suitable for automation scripts, batch operations, CI/CD integration, and server environments without a graphical interface.

The main differences between the two are as follows:

Tool	Connection Target	Main Capabilities
<code>amdc-cli</code>	AMDC cache core	Executes Redis protocol commands and native cluster management
<code>agent</code>	AMDC console	Performs management operations such as deployment, operations, tasks, and monitoring

Applicable scenarios: automation scripts, batch operations, CI/CD integration, environments without a graphical interface.

8.2 Obtaining agent

The `agent` binary is released together with the AMDC Console installation package. After extracting the installation package, you can find the `agent` executable for the corresponding platform in the `amdc_console/agent/` directory (for example, on Linux amd64 it is the `agent` extracted from `amdc_console/agent/agent_linux_amd64.tar.gz`).

8.3 Access and Authentication

Before using `agent`, configure the following two environment variables:

- `AMDC_SERVER`: the access address of the AMDC console, for example `http://172.17.47.213:3001/`.
- `AMDC_CLI_TOKEN`: an AI Token issued by the administrator, used for identity authentication.

Example environment variable configuration on Linux / macOS:

```
export AMDC_SERVER="http://<server-ip>:3001/"
export AMDC_CLI_TOKEN="<your-ai-token>"
```

Example environment variable configuration on Windows PowerShell:

```
$env:AMDC_SERVER = "http://<server-ip>:3001/"
$env:AMDC_CLI_TOKEN = "<your-ai-token>"
```

After configuration, you can verify that the connection works with the following command:

```
agent cluster list
```

Note: `AMDC_CLI_TOKEN` is generated and issued by the administrator in the console. Keep it safe and avoid disclosure.

8.4 Global Parameters

`agent` supports the following global parameters, which can be used to override environment variables or adjust the output format:

Parameter	Description	Example
<code>--server</code>	Specifies the AMDC console address	<code>--server http://<server-ip>:3001/</code>
<code>--cli-token</code>	Specifies the AI Token	<code>--cli-token <your-ai-token></code>
<code>--json</code>	Outputs results in JSON format	<code>--json</code>
<code>-h / --help</code>	Displays help information	<code>agent --help</code>

8.5 Typical Scenario Examples

8.5.1 Viewing the Cluster List

```
# List all clusters
agent cluster list
```

```
# View details of a specified cluster
agent cluster get <cluster-id>
```

Use `agent cluster list` to quickly obtain an overview of all clusters under the current tenant; use `agent cluster get <cluster-id>` to view the nodes, status, and configuration details of a specified cluster.

8.5.2 Adding Machines, Certificates, and Installation Packages

```
# Create a machine group
agent machine group-create --name <machine-group-name>

# Add a machine to the machine group
agent machine add --file machine.json
```

```
{
  "machine_group_name": "<machine-group-name>",
  "login_name": "root",
  "pwd": "<rsa-encrypted-base64-password>",
  "host": "<server-ip>",
  "sshport": 22,
  "note": "Production-machine-01",
  "user_id": 1
}
```

Note: the `pwd` field must first be encrypted with RSA and then Base64-encoded.

```
# Upload a License certificate
agent document upload-license --file <license-file-path>

# Upload an AMDC installation package
agent document upload-pkg --file <package-file-path>
```

The above commands complete the resource preparation before auto deployment: creating a machine group, adding target machines, and uploading the License and installation package.

8.5.3 Executing Auto Deployment

```
agent autodeploy exec --file <deploy-config.json>
```

Describe the deployment parameters (service name, deployment mode, node topology, machines, licenses, etc.) in a JSON configuration file; `agent` automatically submits the deployment task to the console and returns the execution result. You can then check the task progress with `agent task list`.

8.5.4 Scaling Out a Cluster

```
agent expand exec --file <expand-config.json>
```

The scale-out operation inherits the original cluster service name. Specify the scale-out configuration file with `--file` to add slave nodes in master-slave mode or add shard nodes in Cluster mode.

8.5.5 Viewing the Monitoring Dashboard and Slow Logs

```
# View the global monitoring dashboard
agent monitor dashboard

# View slow logs of a specified node
agent monitor slow-log --node-host <node-host>
```

`agent monitor dashboard` provides an aggregated overview of all clusters; `agent monitor slow-log` queries the slow log records of a specified node, where `--node-host` is the target node address in the format `host:port`.

8.6 Quick Reference of Common Commands

Functional Area	Top-level Command	Core Subcommands
Cluster management	<code>cluster</code>	<code>list</code> , <code>get</code> , <code>import</code>
Cluster operations	<code>cluster-manage /</code> <code>cm</code>	<code>node-info</code> , <code>config-get</code> , <code>config-update</code> , <code>backup</code> , <code>recover</code> , <code>flush</code> , <code>operate</code> , etc.

Machine management	machine	list, add, group-create, group-list, etc.
Auto deployment	autodeploy	exec
Scale out/in	expand	exec, save, reduce
Deployment resources	document	pkg-list, upload-pkg, license-list, upload-license, etc.
Task center	task	list, get, exec
Upgrade tasks	upgrade-task	list, get, create, rollback
Cluster migration	migration	prepare, create, list, get
Monitoring and diagnostics	monitor	dashboard, dynamic, static, slow-log, keys-analyse
Configuration templates	conftemp	list, add, update, content
Operation history	history	list, export
ACL	acl	list, create, update, delete
Password policy	password-policy	get, update

For more commands and parameter descriptions, use `agent <command> --help`.

8.7 AI Corpus Examples

In an environment where `AMDC_SERVER` and `AMDC_CLI_TOKEN` have been configured, you can directly give the following natural-language instructions to an AI, which will call `agent` to complete the corresponding operations.

8.7.1 Viewing the Status of All Clusters

Use the agent CLI to list all AMDC clusters under the current tenant, and return the cluster ID, name, deployment mode, and status in a table.

8.7.2 Auto-deploying a Cluster

```
Use the agent CLI to automatically deploy an AMDC Cluster-mode
service with 3 masters and 3 slaves on the machine group "prod-
group". The service name is "amdc-prod-01" and the installation
directory is /data/amdc. Use the uploaded installation package and
License, and return the deployment task ID.
```

8.7.3 Scaling Out a Cluster

```
Use the agent CLI to scale out the service with cluster ID <cluster-
id> by adding 2 master-slave node groups in the machine group "prod-
group", and return the task status after the scale-out is complete.
```

8.7.4 Viewing Node Slow Logs

```
Use the agent CLI to view the 50 most recent slow log entries on
node <node-host>, sorted by elapsed time in descending order.
```

8.7.5 Uploading Resources in Batch

```
Use the agent CLI to upload the installation package
/data/packages/AMDC-V2.0.6.tar.gz and the License file
/data/licenses/amdc.lic to the console, and return the resource IDs
after the upload.
```

Note: before the AI executes the above tasks, make sure that `AMDC_SERVER` and `AMDC_CLI_TOKEN` have been set in the current environment; otherwise authentication will fail.

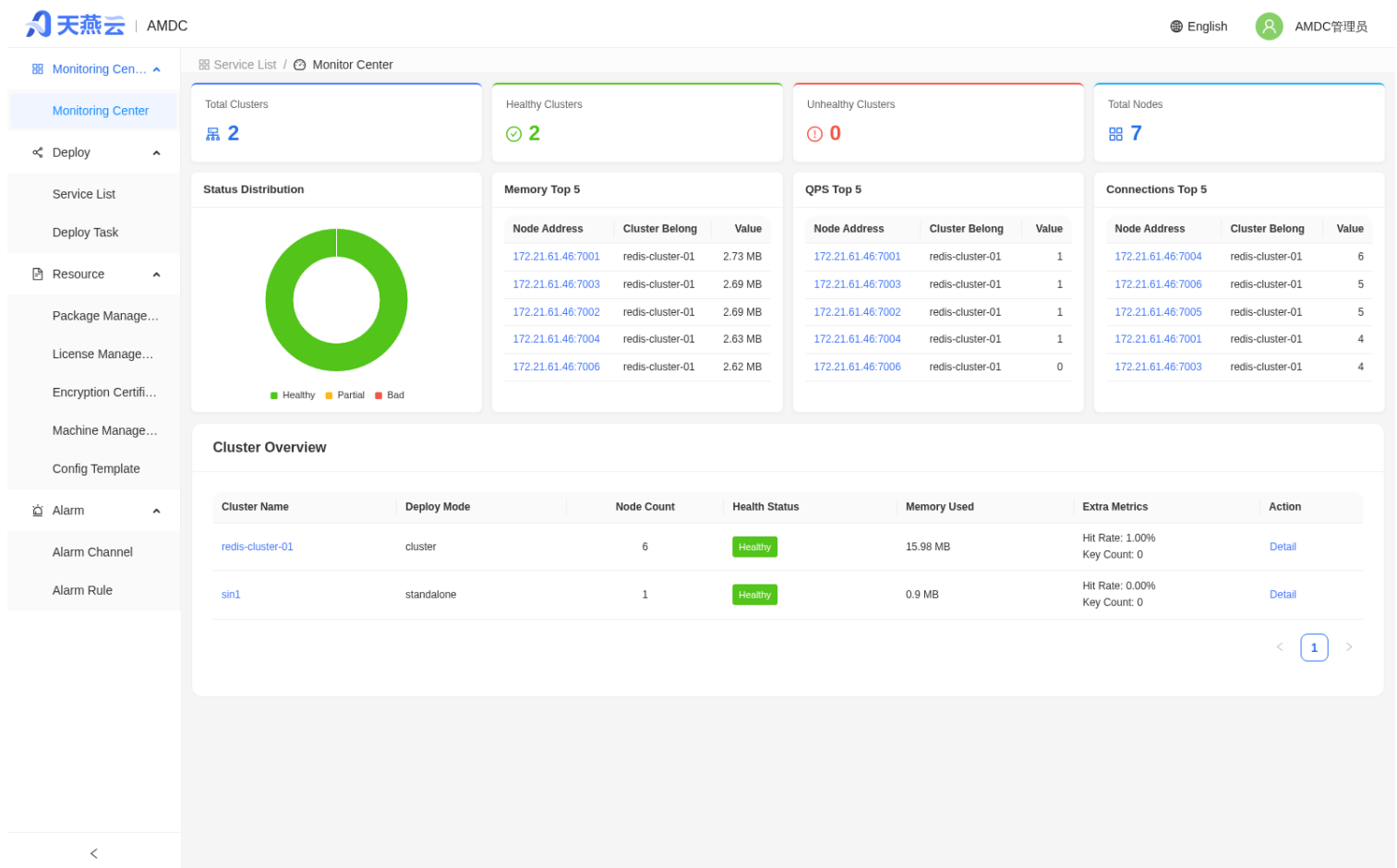
9 Service Monitoring and Alarms

9.1 Monitoring Center

Path: [Monitoring Center]

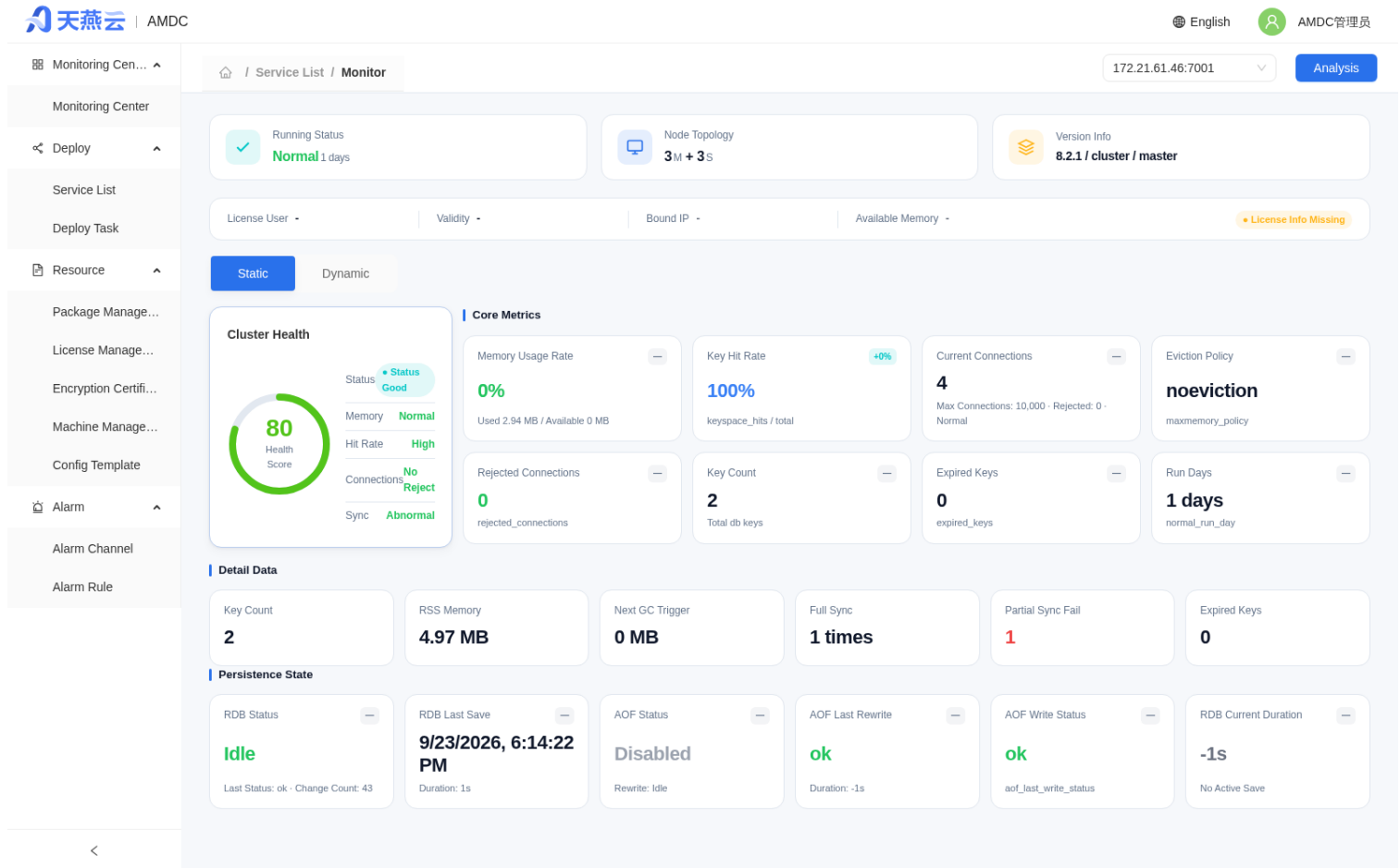
The Monitoring Center is a global monitoring dashboard that aggregates the running overview of all current clusters:

- Top metric cards: total number of clusters, healthy clusters, abnormal clusters, and total number of nodes.
- Status distribution: a donut chart showing the proportion of healthy, partially abnormal, and abnormal clusters.
- Top 5 key metrics: Top 5 node rankings by memory, QPS, and connections.
- Cluster overview: displays each cluster's name, deployment mode, number of nodes, health status, total memory usage, and operation entries.



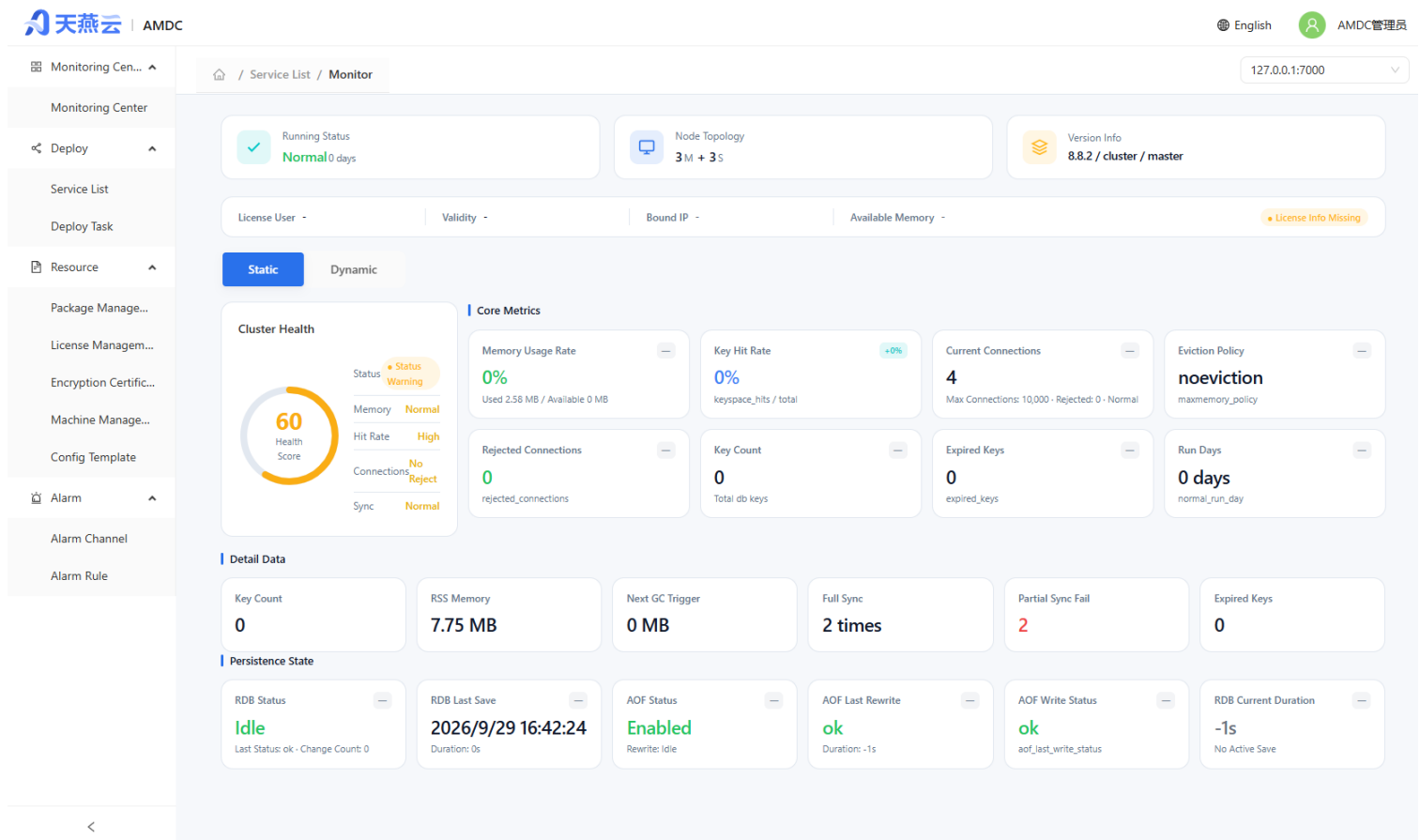
9.2 Service Monitoring

Click the [Monitor] button under the service column to enter the cluster monitoring page, which displays the detailed information and key metrics of the current cluster. The path to the service list differs slightly by role: AMDC administrators enter through [Deployment Management] > [Service List]; tenant administrators enter through [Service List].



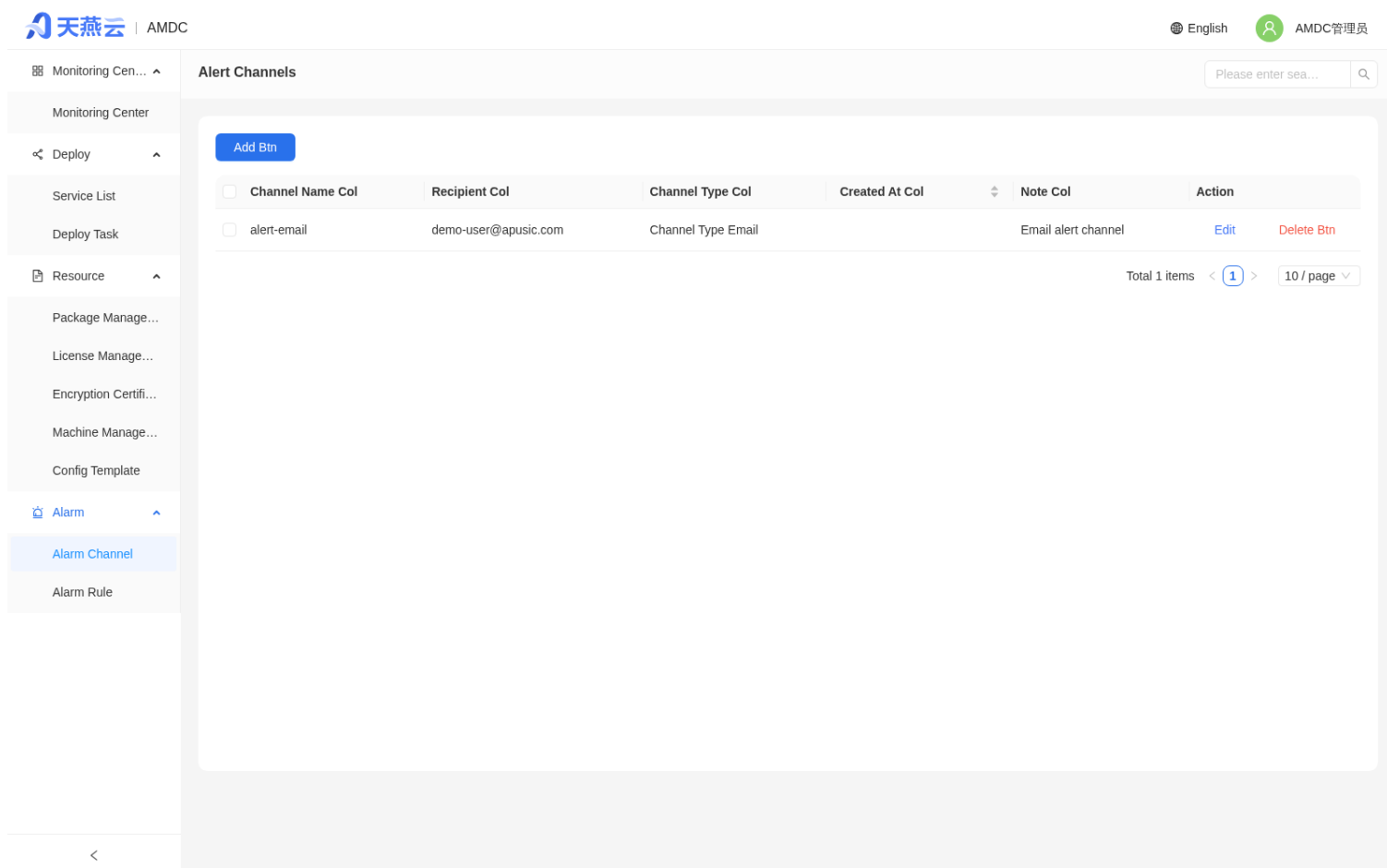
9.3 Analysis

Click the [Analysis] button above [Monitor] to enter the [Analysis] page, where you can query and analyze bigkeys, hotkeys, memkeys, monitor, and slowlog data of the cache core.



9.4 Alarm Channels

An alarm channel is the notification method used to notify recipients. The AMDC console provides alarm channels in the form of Email.

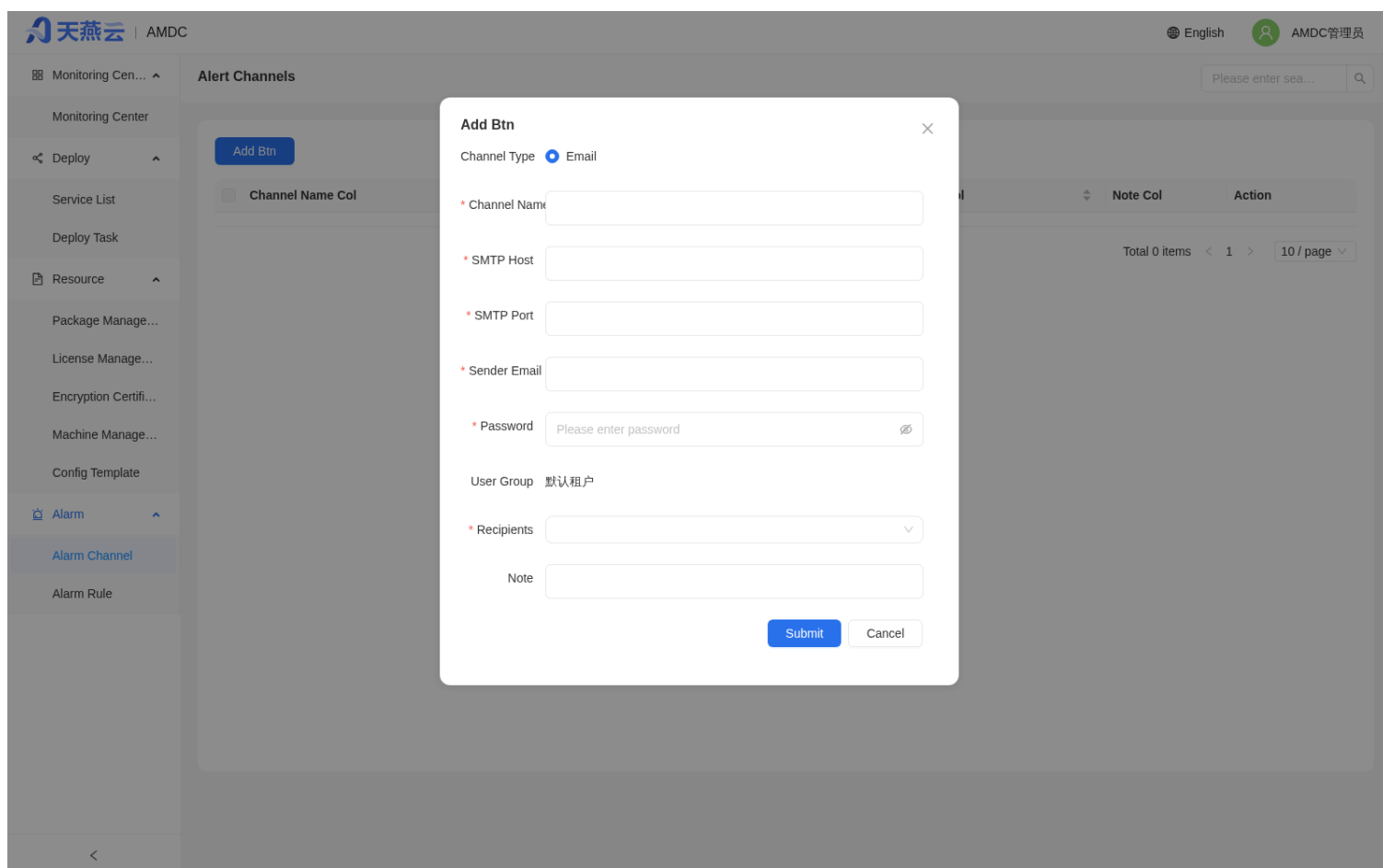


9.4.0.1 Adding an Alarm Channel

Go to [Alarms] > [Alarm Channels] and click the [Add] button to add an alarm channel.

Parameter	Description
Channel Name	Custom
Channel Type	Email
SMTP Address	Mail transfer protocol server
SMTP Port	Port used by the mail server
Sender Email	Username of the sending mailbox
Password	Password of the sender's mailbox
Recipients	Users under the current tenant; multiple selections are supported to notify multiple people at the same time

Remarks	Remark information
---------	--------------------



9.4.0.2 Editing an Alarm Channel

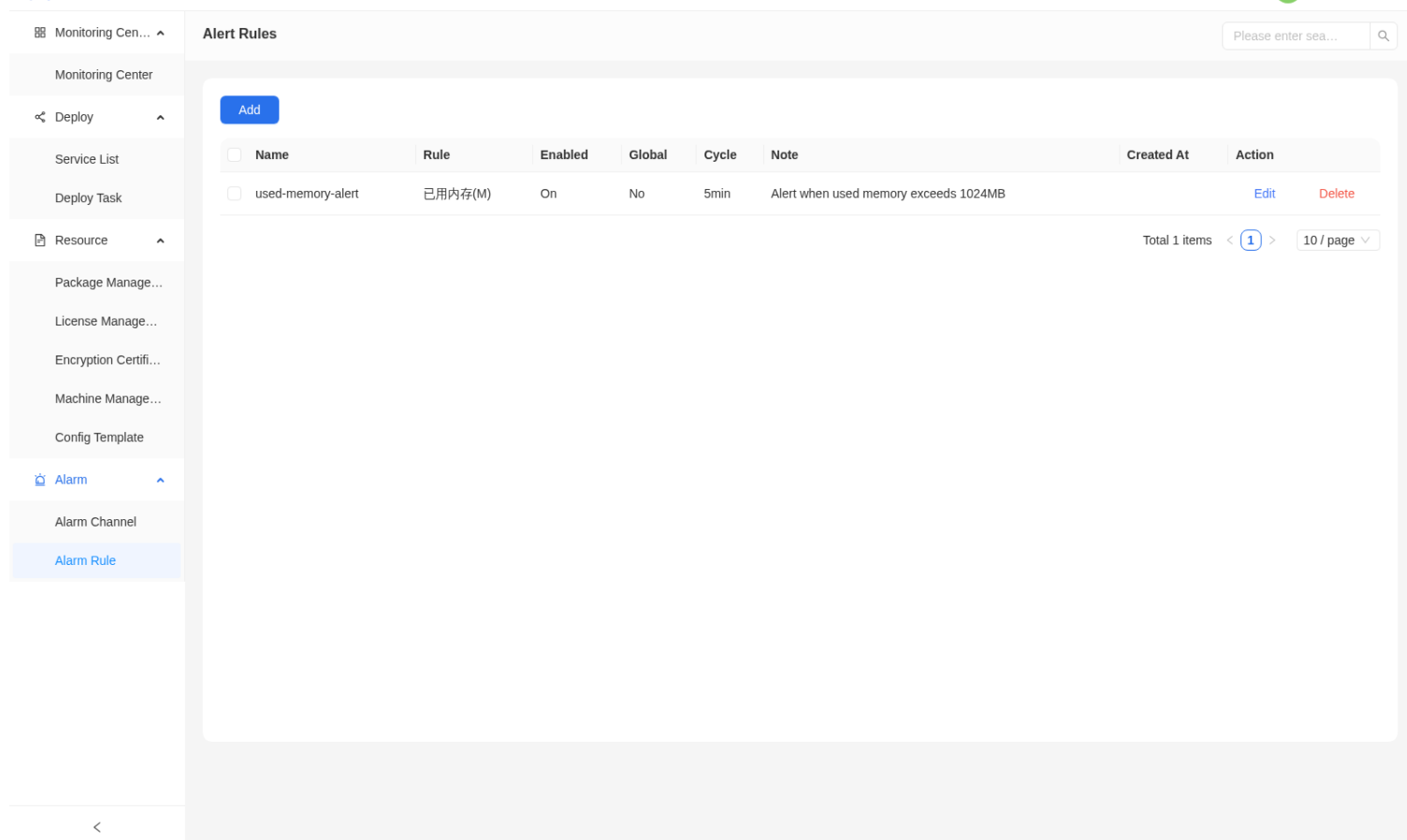
Go to [Alarms] > [Alarm Channels], select the alarm channel to edit, and click the [Edit] button on the right side of the alarm channel list to edit the alarm channel.

9.4.0.3 Deleting an Alarm Channel

Go to [Alarms] > [Alarm Channels], select the alarm channel to delete, click the [Delete] button on the right side of the alarm channel list, and click [Confirm] in the confirmation box to delete the alarm channel.

9.5 Alarm Rules

Set alarm rules in the console. When the configured conditions are met, an alarm is triggered within the configured time and sent at the configured frequency!



Alert Rules

Please enter sea... 

[Add](#)

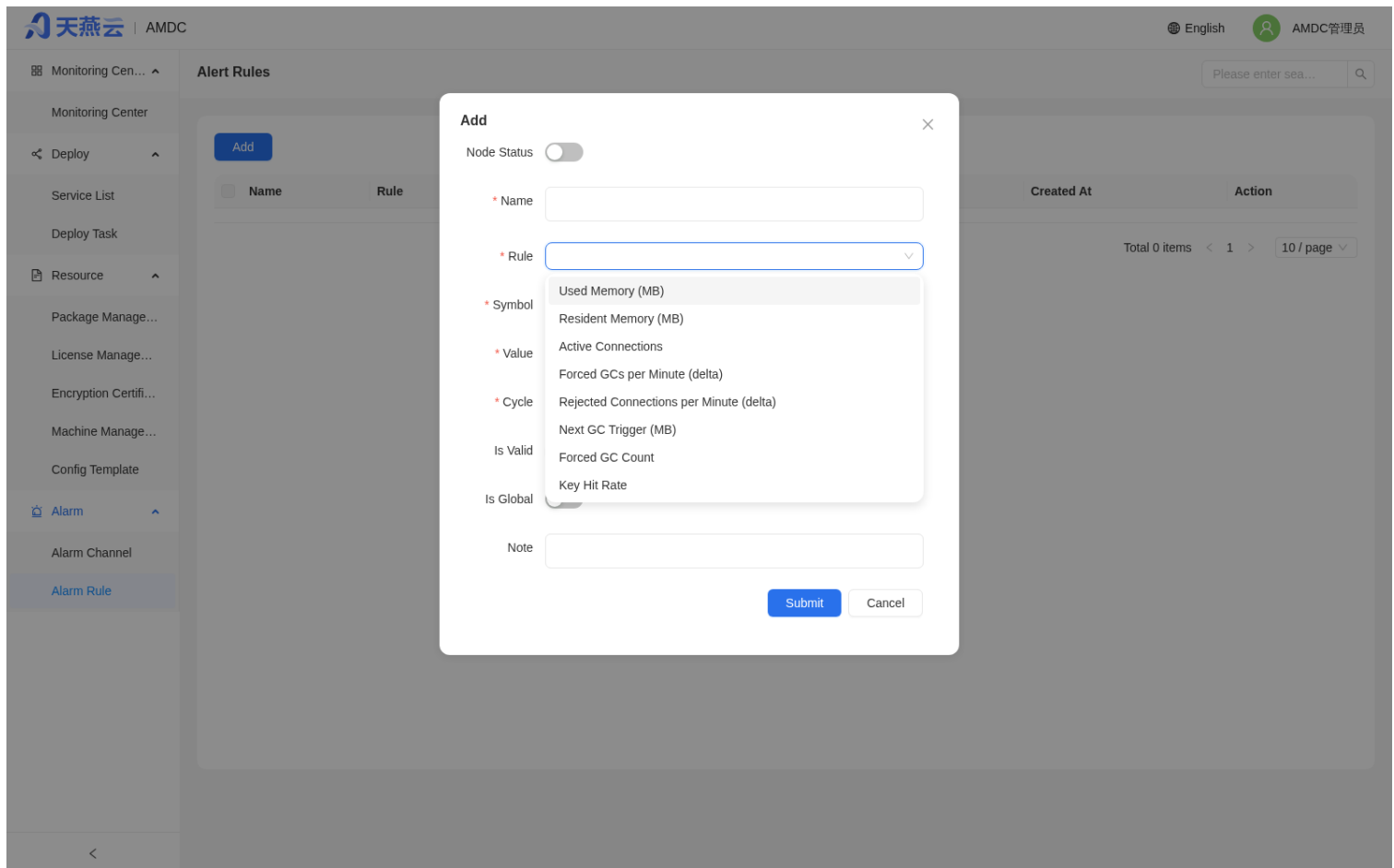
☐	Name	Rule	Enabled	Global	Cycle	Note	Created At	Action
☐	used-memory-alert	已用内存(M)	On	No	5min	Alert when used memory exceeds 1024MB		Edit Delete

Total 1 items < **1** > 10 / page 

9.5.0.1 Creating an Alarm Rule

Alarm rules are divided into global alarm rules that take effect for all clusters and local alarm rules that take effect for a single cluster. Turn on the global switch to apply the rule to all clusters. Go to [Alarms] > [Alarm Rules] and click the [Create] button in the upper right corner of the page to create an alarm rule.

- Node status alarm: the node alarm switch; when the switch is on, node alarms are enabled
- Rule name: a custom alarm rule name
- Rule: set the conditions that trigger the alarm
- Comparison operator: select the comparison operation
- Comparison value: enter the alarm comparison value; the alarm is triggered when this value is reached
- Period: the period at which the rule is checked: 5min, 10min, 20min, 30min, 45min, 1h, 2h
- Effective: when the switch is on, the alarm rule takes effect
- Global: defaults to No; when Global is selected, the rule applies to all clusters of the current tenant



9.5.0.2 Editing an Alarm Rule

Go to [Alarms] > [Alarm Rules], select the corresponding alarm rule, and click the [Edit] button on the right side of the list to edit the alarm rule.

9.5.0.3 Deleting an Alarm Rule

Go to [Alarms] > [Alarm Rules], select the alarm rule to delete, and click the [Delete] button on the right side of the list to delete the alarm rule. You can also select multiple alarm rules and click the [Delete] button in the upper left corner to delete them in batch.

10 Account Permissions and Security

This section describes the account system and three-role separation mechanism of the console based on MLPS 2.0. If anything here differs from what you see in your actual deployment, follow what is shown after login.

10.1 Role System and Menu Visibility

Console V2.0.6 uses a five-role system. After logging in, each role can only see the menus within its scope of responsibility. This design complies with the "Separation of management user privileges" requirement in GB/T 22239-2019 (Information Security Technology — Baseline for Multi-Level Protection of Cybersecurity).

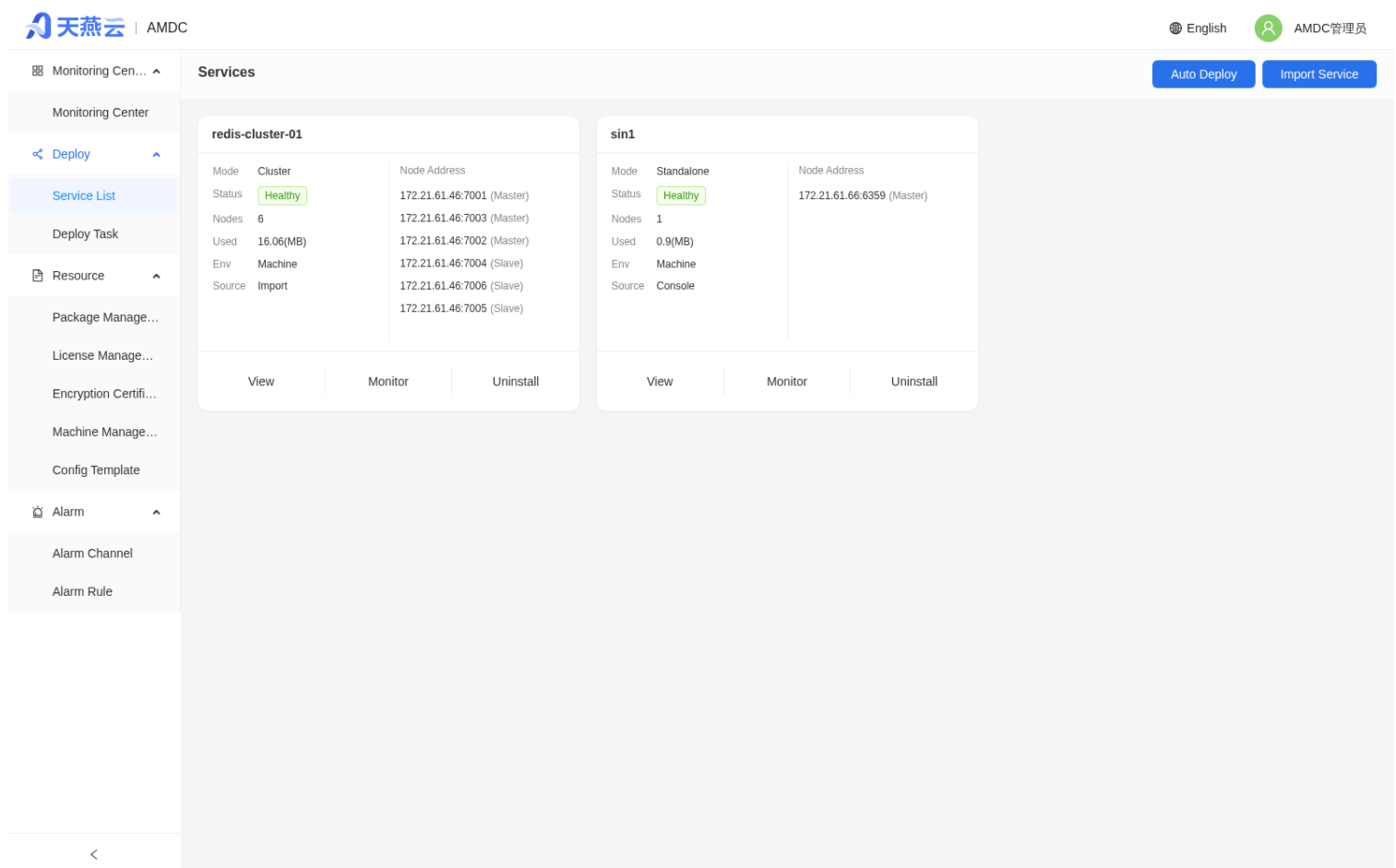
Role	Account	Responsibility	Default Visible Menus
System Administrator	sys_admin	Tenant management and tenant administrator account management	[Tenant] > Tenant Management, Account Management
Security Administrator	sec_admin	Global security policy, user lock/unlock, password reset, access control policy	[Tenant] > Authorization Management, Password Policy
Audit Administrator	audit_admin	Audit policy, audit log viewing and analysis, audit report (read-only)	[Operation History]
Tenant Administrator	tenant_admin	Account and password policy within the current tenant	[Tenant] > Account Management, Password Policy, [Operation History]
AMDC Administrator	amdc_admin	Global management of AMDC instances	[Monitoring Center], [Deployment Management] (Service List, Auto Deployment, Deployment Tasks), [Resource Management] (Package Management, Certificate Management, Machine Management, Configuration Templates), [Alarms]

The three roles (System / Security / Audit Administrator) are auto-generated when the system starts. There is exactly one account for each, and they **cannot be deleted**. Their menus are independent and the three roles cannot be assigned to the same user.

By nature, the actual users of console functions fall into two categories:

1. **Administrator accounts:** hold tenant/user management permissions and decide how services and data resources are allocated.
2. **Tenant accounts:** are data users within a tenant. They can use the services and perform some management operations. Data is isolated between different tenants. Tenant administrators have **only usage rights, not ownership** of services within their tenant (they cannot decide on deletion or modification of cache cores themselves).

The figure below shows the home menu differences across the five roles:



10.2 Login and First-time Password Change

On first startup, the console auto-generates initial passwords (12 random characters each) for all preset administrator accounts, including the three-role administrators, the tenant administrator, and `amdc_admin`. These passwords are written to the `./resource/.initial_passwords` file in the installation directory.

Open a browser and access the console URL (default `http://<console IP>:9001/`). The login page is shown below:



Sign in



Sign in

First-login steps:

1. Enter the account (e.g. `sys_admin`).
2. Enter the 12-character random password from the corresponding line in the `.initial_passwords` file.
3. Enter the graphic verification code shown on the page (case-insensitive).
4. Click [Login].

Tip: when the password field contains special characters (e.g. `#`, `$`, `*`), prefer pasting directly into the browser to avoid being stripped by the shell or terminal.

After a successful first login, you are redirected to the mandatory password-change page. You **must** change your password according to the current password policy before you can enter the console:



Note: if the new password does not meet the complexity policy, you stay on the password-change page and the next submission displays specific items that failed validation. Adjust accordingly and resubmit.

10.2.1 Resetting a Preset Account Password When Forgotten

If the `.initial_passwords` file is lost, or a preset account is locked by too many failed login attempts (e.g. `amdc_admin` has used up its remaining attempts), you can use the console CLI in the installation directory to directly reset a preset account's password to a new 12-character random value. The account itself is not locked or deleted.

Steps:

1. SSH to the console server and switch to the directory that contains the `amdc-console` executable (default `/home/mofant/test-soft/amdc/amdc_console`):

```
cd /home/mofant/test-soft/amdc/amdc_console
```

2. Run the reset command and specify the preset account name (allowed values: `sys_admin` / `sec_admin` / `audit_admin` / `tenant_admin` / `amdc_admin`):

```
./amdc-console --reinit amdc_admin
```

On success, the console prints the new password, for example:

```
账户 amdc_admin 的密码已重置。
新密码: Yg!.U,f19wmE
请使用新密码登录，并按提示修改密码。
```

3. Immediately log in with the new password in the browser and complete the first-time password change as prompted.

`-reinit` notes:

- It only works on the five preset accounts; it has no effect on business accounts created inside the console.
- After reset, the account is not disabled and the lockout counter is cleared, with no other side effects.
- The reset command must be executed in the directory that contains the `amdc-console` executable (not the AMDC cache-core directory), with read/execute permission on that directory.
- See `./amdc-console --help` for supported flags (`-c string` config file; `-reinit string` preset-account reset).

10.3 Three-role Management

10.3.1 System Administrator (`sys_admin`)

After login, the default landing page is [Tenant] > [Tenant Management]. The left sidebar contains only [Tenant Management] and [Account Management]:


AMDC

English
系统管理员

tenant
tenant manage
user manage

tenant list

name

time range

2026-09-17 18:49:0 → 2026-09-24 18:49:0

reset

search

create

please input sear...

☐	name	created time	remark	operation
☐	默认租户	2026-09-24 05:04:05	系统预置默认租户	edit tenant admin

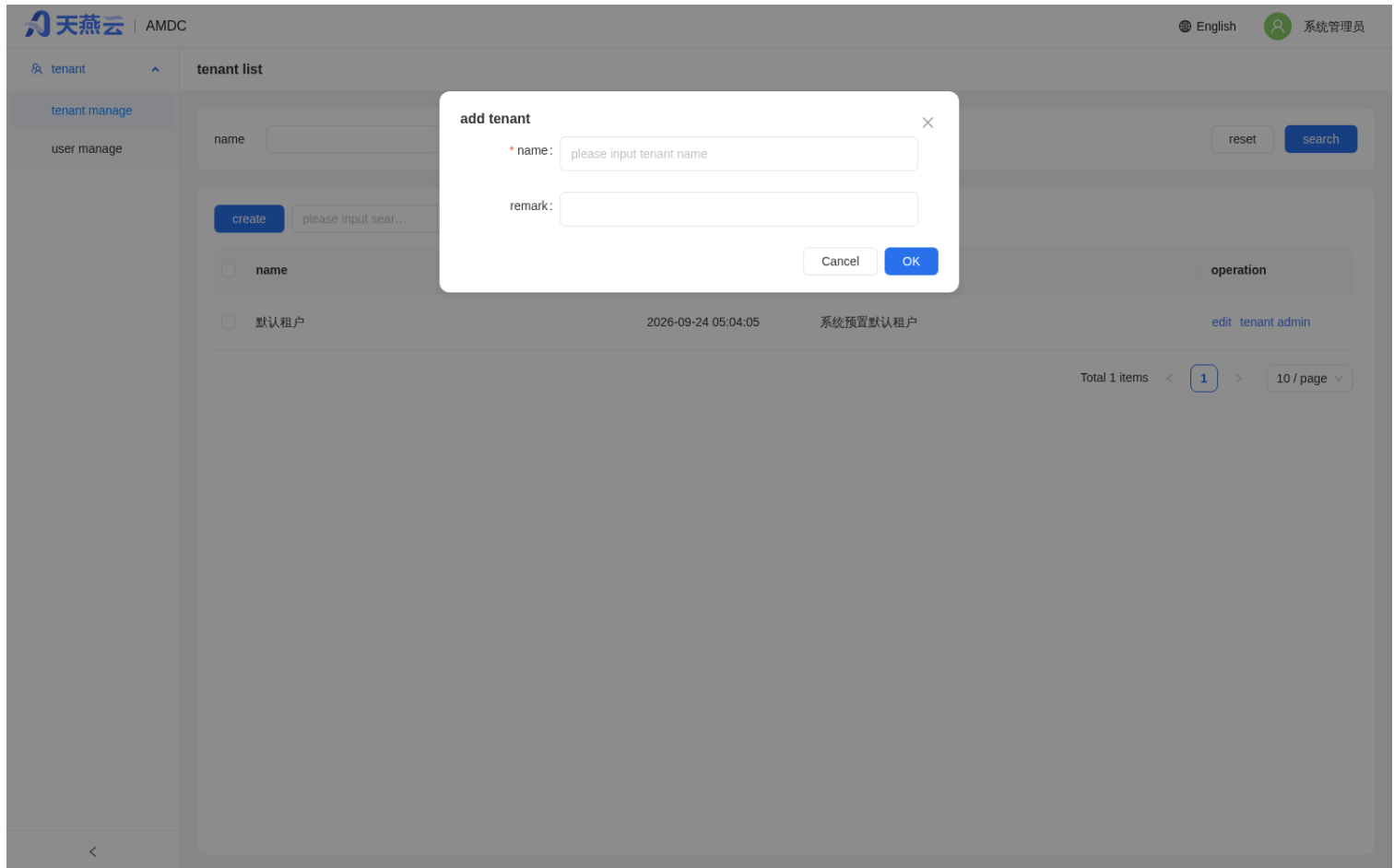
Total 1 items

< 1 >

10 / page

Tenant Management

Click the [Create] button in the upper right corner to open the Add Tenant dialog:



Fill in the tenant name (required, unique) and the remark (optional), then click [OK] to return to the list. The newly created tenant row appears in the list with its creation time:


AMDC

English
系统管理员

tenant
tenant manage
user manage

tenant list

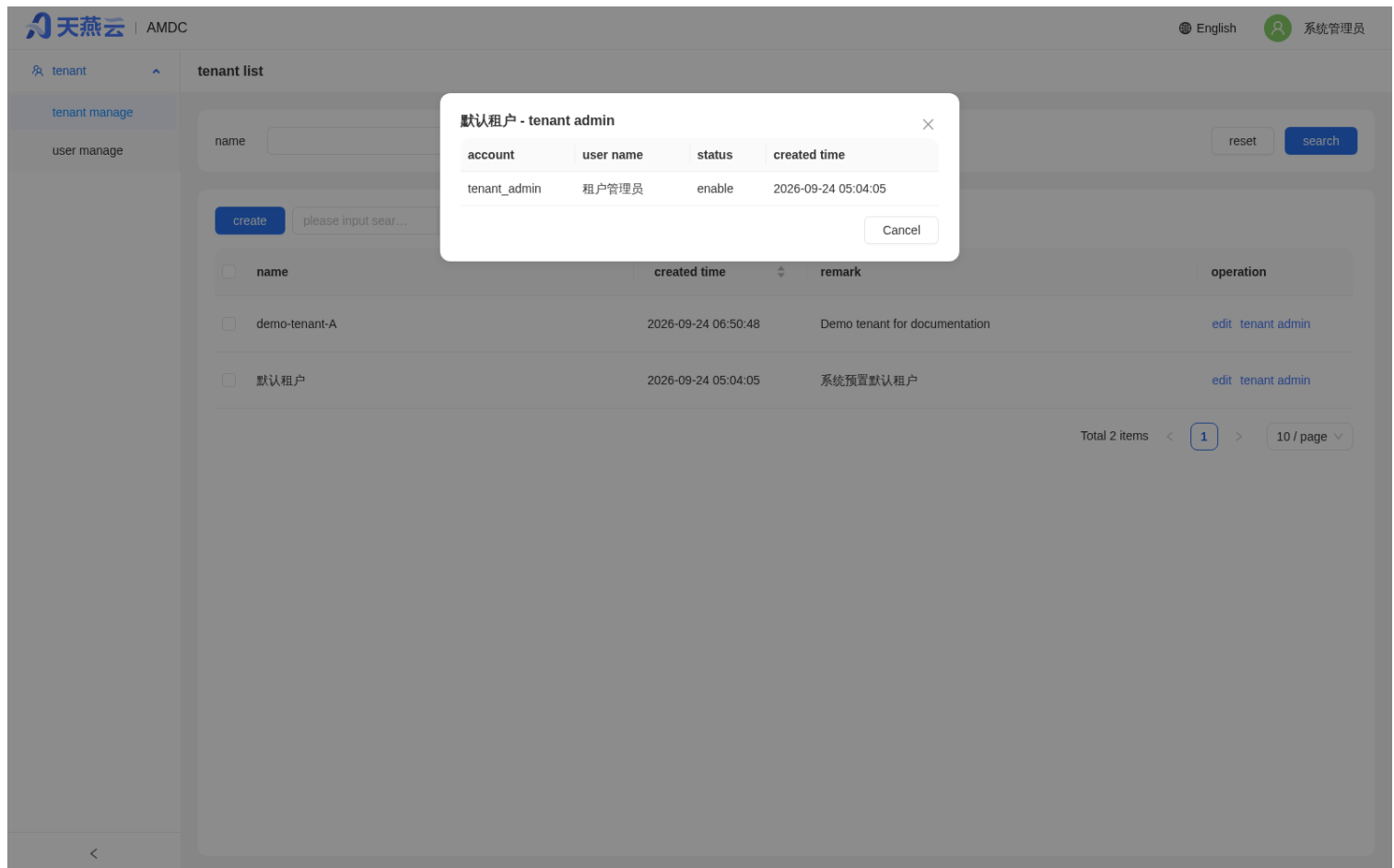
name
time range
2026-09-17 18:49:0 → 2026-09-24 18:49:0
reset
search

create
please input sear...

☐	name	created time	remark	operation
☐	demo-tenant-A	2026-09-24 06:50:48	Demo tenant for documentation	edit tenant admin
☐	默认租户	2026-09-24 05:04:05	系统预置默认租户	edit tenant admin

Total 2 items
1
10 / page

Click the [Tenant Administrator] button on a tenant row to open a dialog listing the tenant administrators under that tenant, used to maintain the binding between tenant administrators and tenants:



Account Management

Switch to [Tenant] > [Account Management] to view all accounts in the console (including tenant administrators and tenant users), and edit them:

AMDC

English
系统管理员

tenant

tenant manage
user manage

account manage

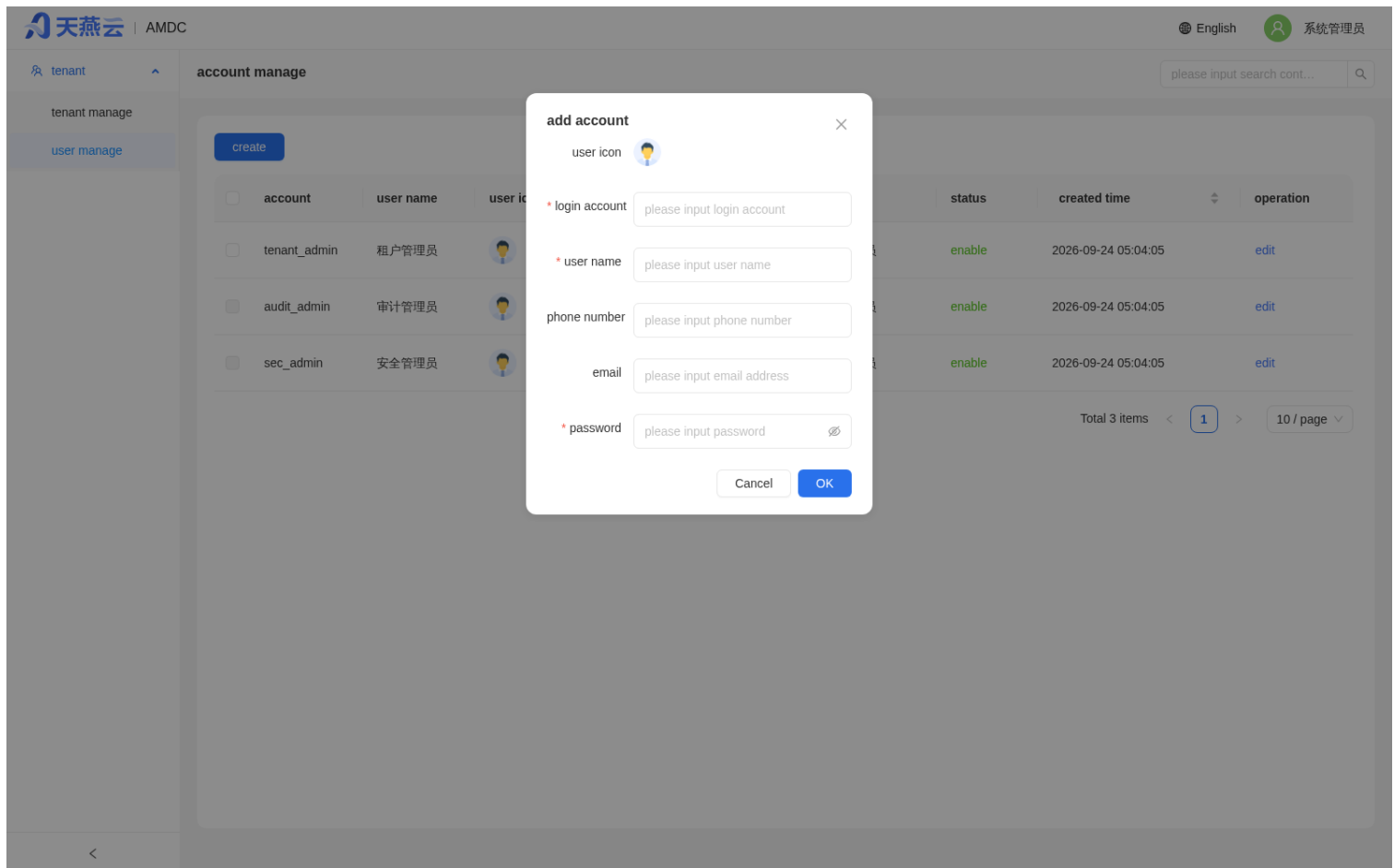
please input search cont...

create

☐	account	user name	user icon	email	phone ...	role	status	created time	operation
☐	tenant_admin	租户管理员				租户管理员	enable	2026-09-24 05:04:05	edit
☐	audit_admin	审计管理员				审计管理员	enable	2026-09-24 05:04:05	edit
☐	sec_admin	安全管理员				安全管理员	enable	2026-09-24 05:04:05	edit

Total 3 items
1
10 / page

Click [Create] to open the Create Account dialog:

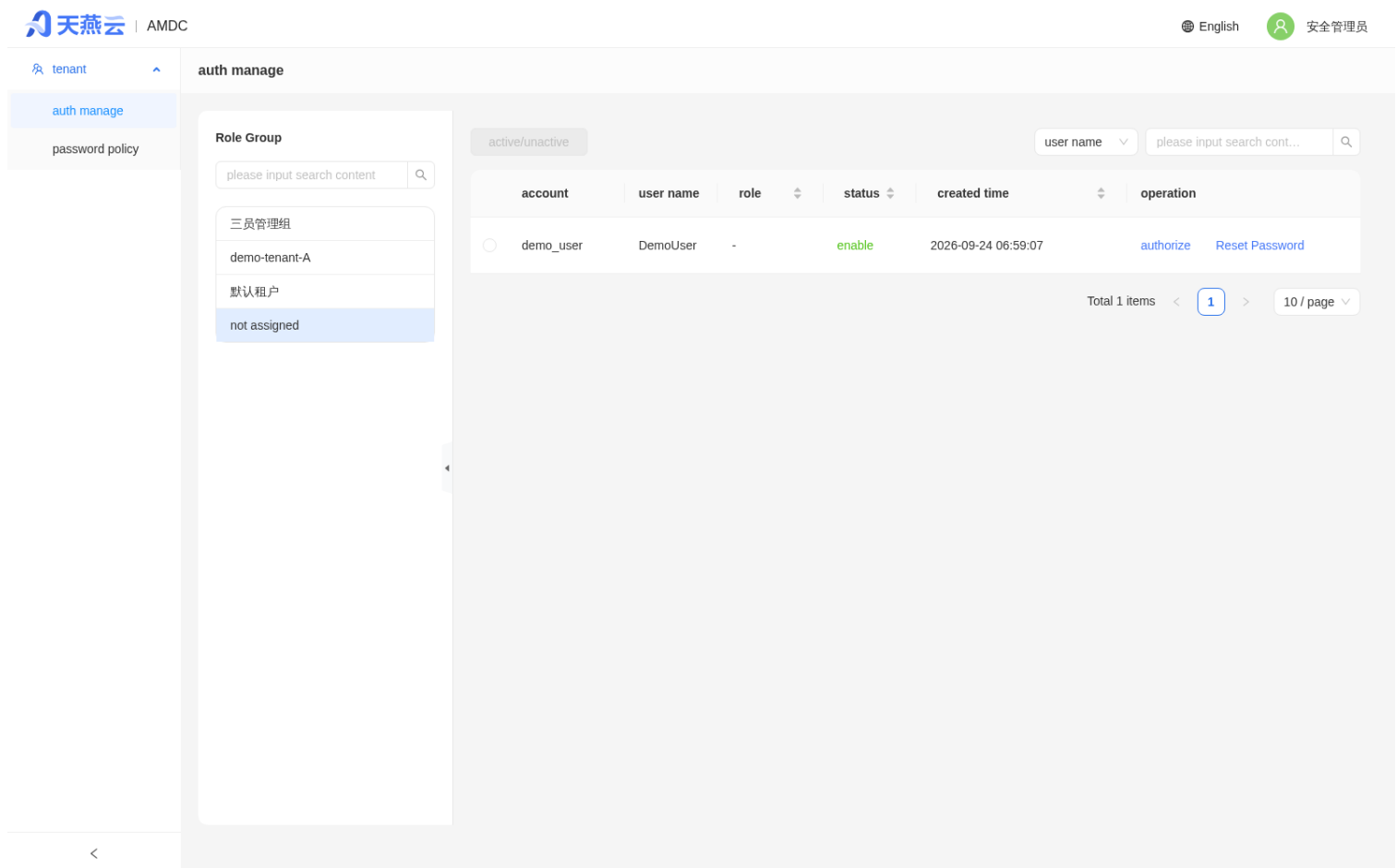


Tip: when creating an account you must enter the "Password" field and it must comply with the current password policy. The account is enabled by default after creation. You can click [Edit] in the list to modify it later.

10.3.2 Security Administrator (`sec_admin`)

After login, the menu only contains [Tenant] > [Authorization Management] and [Tenant] > [Password Policy], used to configure access control and password policy:

Authorization Management



Users in the "Unassigned Group" (those not assigned to any tenant) must first be authorized to a tenant on this page before the account can log in.

Changing a User's Password

A newly created account has no initial password and must have a password set by the security administrator here before it can log in. Select the target user row and click the [Change Password] button at the top of the list.

Activation / Freezing

Click the [Activate/Freeze] button at the top of the list to toggle a user between "Enabled" and "Frozen". A frozen account cannot log in but the account record is preserved.

Password Policy

Go to [Tenant] > [Password Policy]. The password policy consists of two parts, the presets and a custom area, and applies to all accounts in all tenants after saving:

tenant

auth manage

password policy

Policy Preset

Simple

Length:8-32chars
Lockout:15min
History:0times

Retry:10times
Expiry:90days
Require:Digit Letters + Digits

Medium

Length:10-32chars
Lockout:30min
History:3times

Retry:5times
Expiry:90days
Require:Uppercase Lowercase Digit

Complex

Length:12-32chars
Lockout:60min
History:5times

Retry:3times
Expiry:90days
Require:Uppercase Lowercase Digit Special

Password Policy Configuration

Password Complexity

* Minimum Length

8

* Maximum Length

32

Require Uppercase

Yes

Require Lowercase

Yes

Require Digit

Yes

Require Special Character

Yes

Security Policy

* Max Retries

5

* Lockout Duration (min)

30

* Password Expiry (days)

90

* Password History

5

Save Policy

Presets (not editable, for quick selection):

Preset	Length	Max Retries	Freeze	Expiration	History	Required Characters
Simple	8-32	10	15 min	90 days	0	digits, letters + digits
Medium	10-32	5	30 min	90 days	3	uppercase, lowercase, digits
Complex	12-32	3	60 min	90 days	5	uppercase, lowercase, digits, special characters

Note: presets differ in length, history count, and lockout policy. Clicking a preset auto-fills the values in the custom area below. After saving, the policy takes effect for all tenant accounts.

Custom fields:

Field	Default	Description
Minimum length	8	Cannot be lower than this

90

Maximum length	32	Upper bound
Require digits	On	Whether the password must include digits
Require uppercase letters	Off	Whether the password must include uppercase letters
Require lowercase letters	Off	Whether the password must include lowercase letters
Require special characters	Off	Whether the password must include special characters
Max retry attempts	5	Account is locked after this many consecutive login failures
Freeze duration (minutes)	30	Auto-unlock waiting time after lockout is triggered
Password expiration (days)	90	Password validity in days; forced change after expiration
Historical passwords (count)	5	The new password must not match any of the last N historical passwords

10.3.3 Audit Administrator (`audit_admin`)

The audit administrator's menu only contains [Operation History] after login, used to view full audit logs in **read-only** mode:

 | AMDC
 English
审计管理员

operation history

Operation History

Time Range

2026-09-17 19:11: → 2026-09-24 19:11:

Keyword

User / feature / operation

reset

search

Backup Audit Log

#	User	User IP	Feature Used	Operation	Result	Time
1	审计管理员	172.21.61.66:9001	用户管理	修改用户密码	成功	2026-09-24 07:11:50
2	安全管理员	172.21.61.66:9001	用户管理	修改用户信息	成功	2026-09-24 07:04:04
3	安全管理员	172.21.61.66:9001	用户管理	修改用户密码	成功	2026-09-24 07:03:20
4	系统管理员	172.21.61.66:9001	用户管理	创建用户DemoUser	成功	2026-09-24 06:59:07
5	系统管理员	172.21.61.66:9001	租户管理	创建租户demo-tenant-A	成功	2026-09-24 06:50:48
6	系统管理员	172.21.61.66:9001	用户管理	修改用户信息	成功	2026-09-24 06:49:05
7	系统管理员	172.21.61.66:9001	用户管理	修改用户密码	成功	2026-09-24 06:47:57
8	AMDC管理员	172.21.61.66:9001	用户管理	修改用户信息	成功	2026-09-24 05:40:10
9	AMDC管理员	172.21.61.66:9001	机器管理	创建机器172.21.61.53	成功	2026-09-24 05:34:55
10	AMDC管理员	172.21.61.66:9001	机器管理	创建机器172.21.61.53	成功	2026-09-24 05:34:42

Total 14 items

1

2

10 / page

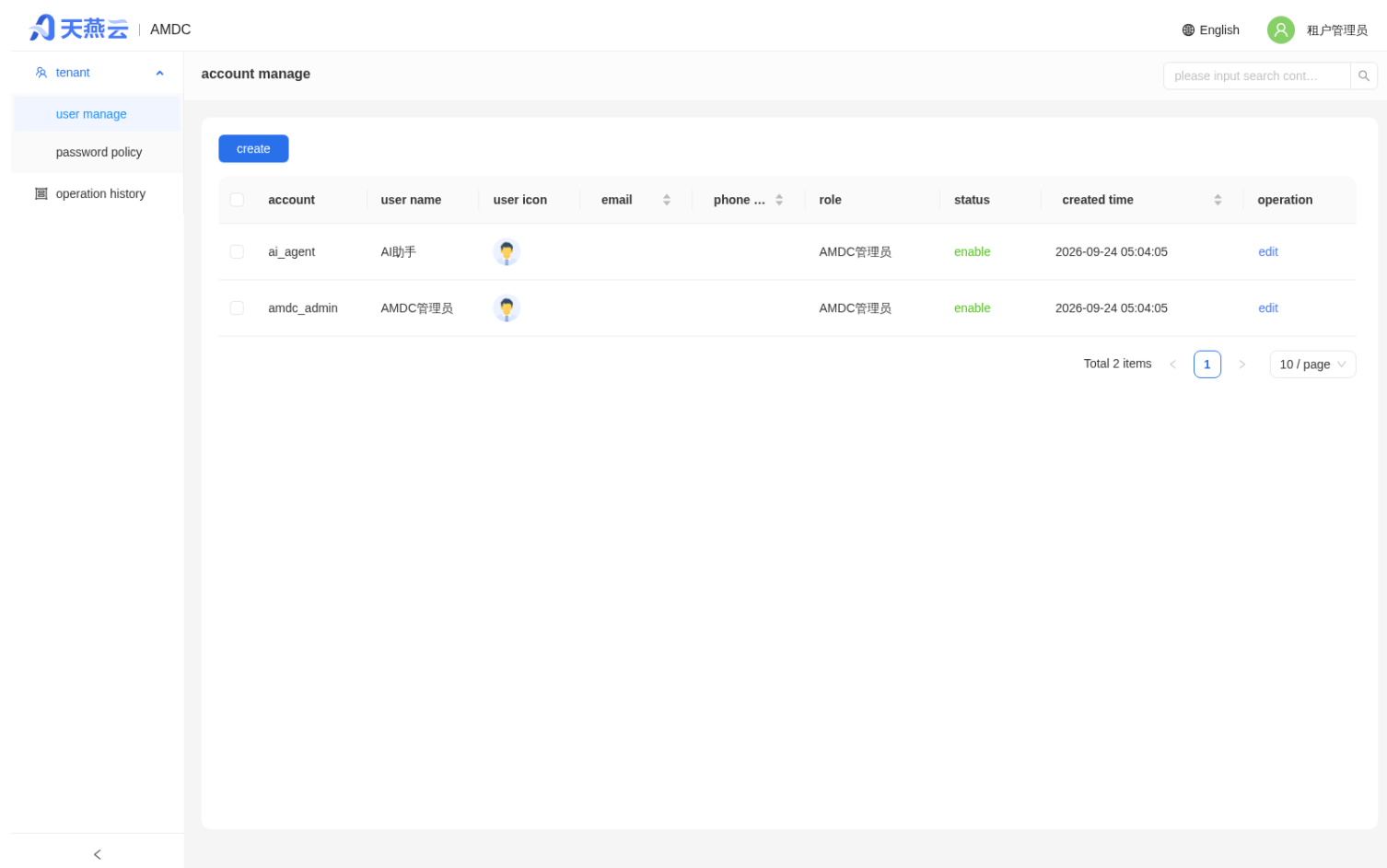
Go to

Page

Operation History records all user actions on the console. The list fields include: serial number, user, user access IP, feature used, operation, event result (success / failure), and time. The page supports filtering by time range, keyword search (user / feature / operation), resetting conditions, and backing up audit logs.

10.3.4 Tenant Administrator (`tenant_admin`)

The tenant administrator's menu only contains [Tenant] > [Account Management], [Tenant] > [Password Policy], and [Operation History], and can manage accounts **within the current tenant**:

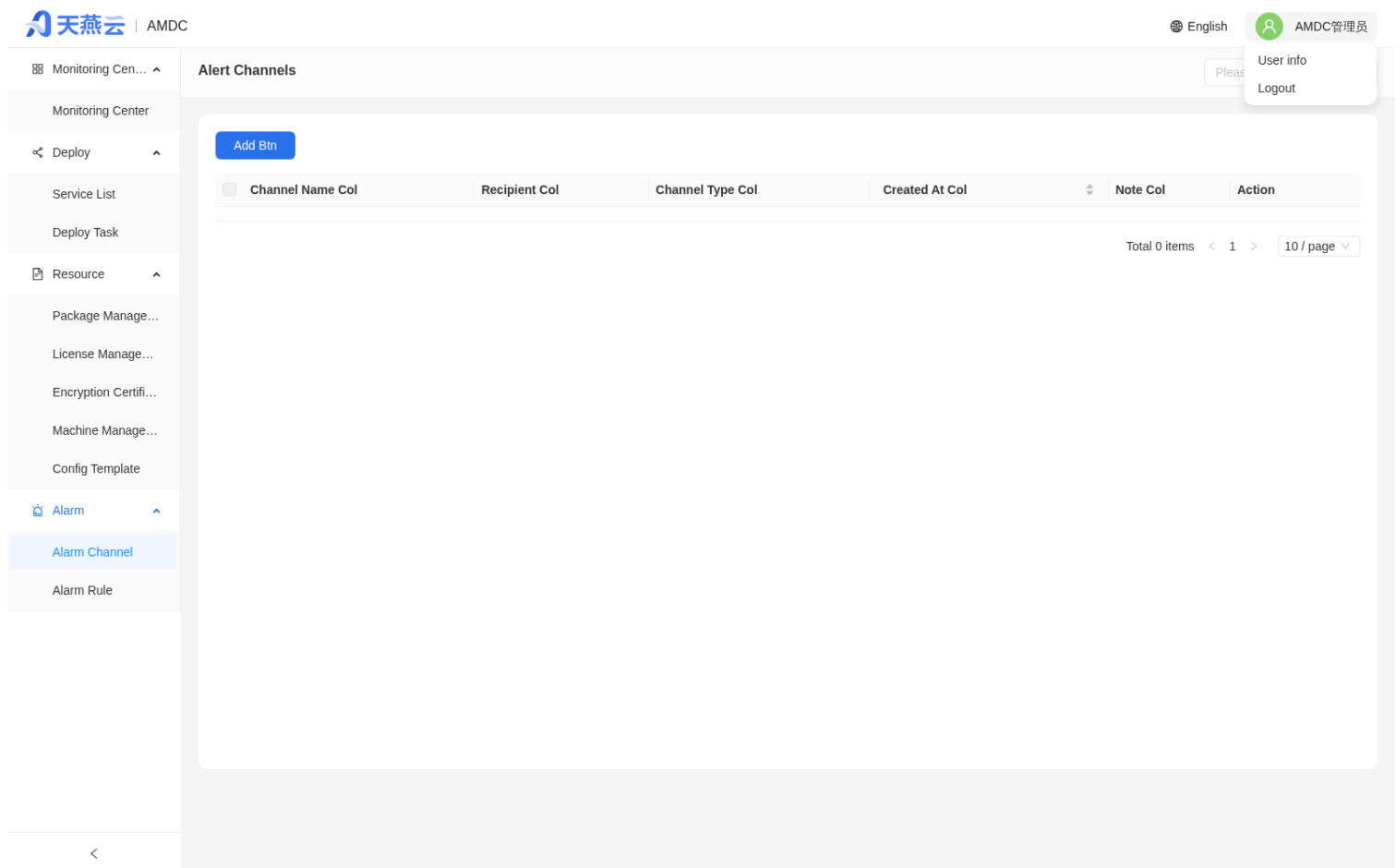


The tenant administrator **cannot** manage cross-tenant accounts, nor perform cross-tenant authorization.

10.4 Passwords and Security

10.4.1 Changing the Current User's Password

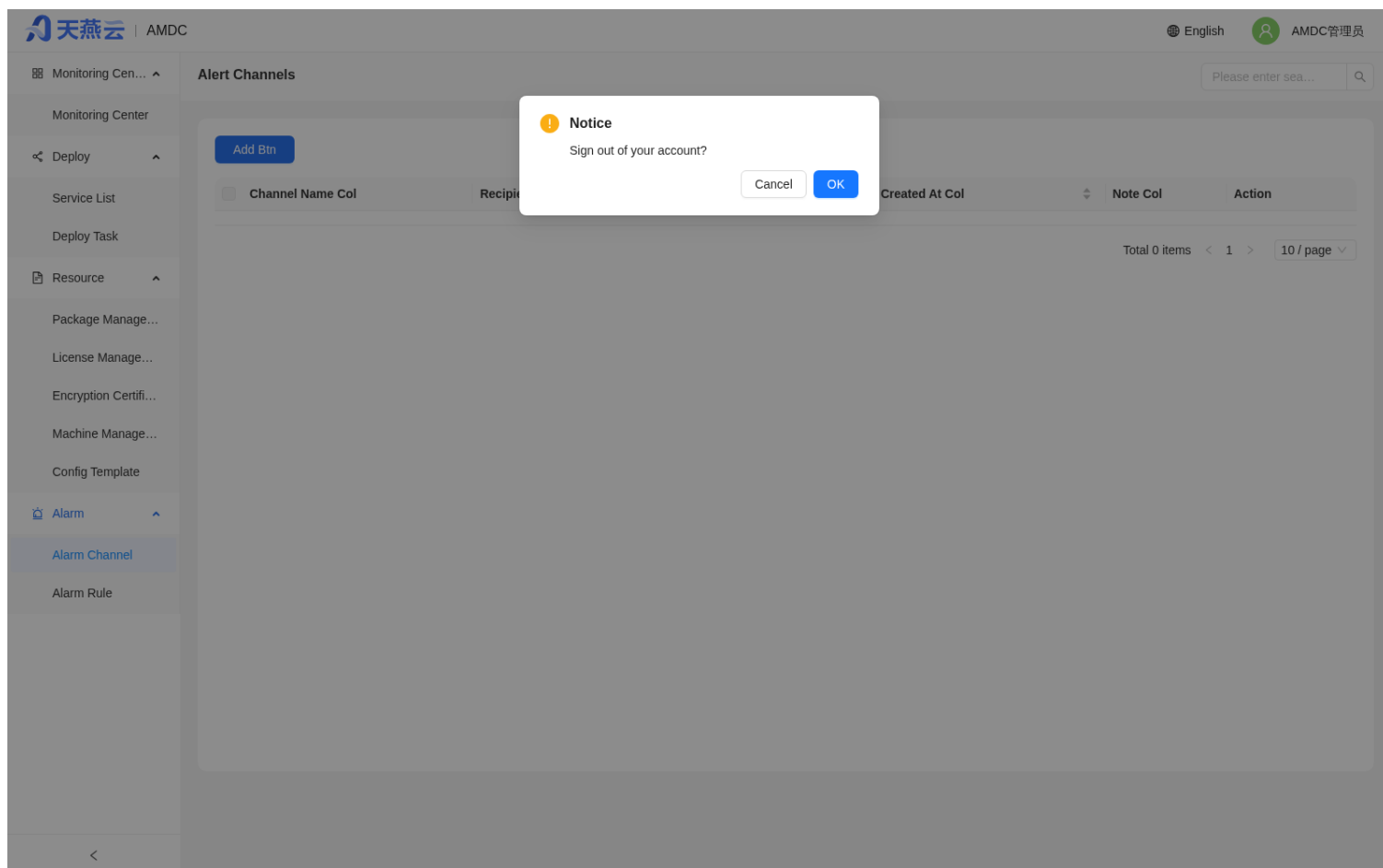
After logging in, click the user avatar in the upper right corner of the page and choose [Change Password] from the dropdown menu:



In the pop-up window enter the old password and the new password (twice), then submit for immediate effect. The new password must comply with the current console password policy.

10.4.2 Logging Out

Choose [Logout] from the user menu. A confirmation dialog appears:



Click [OK] to clear the current session and return to the login page.

10.4.3 Common Problems

Problem 1: Login shows "Login failed! Wrong password, N attempts remaining"

- Cause: the password does not match the console record and the threshold has not been reached.
- Solution: re-check capitalization and special characters and try again. If the maximum retry count (default 5) is exceeded, the account is temporarily locked. Wait for the freeze duration (default 30 minutes) for auto-unlock, or ask the security administrator to force-unlock it in [Authorization Management].

Problem 2: Login shows "Login failed! Wrong verification code"

- Cause: the graphic verification code is wrong or has expired (it is valid for a single session).
- Solution: click the verification code image to refresh and re-enter. After several failures, refresh the whole login page.

Problem 3: After submitting the first-time password change you stay on the change-password page

- Cause: the new password does not meet the current password policy (e.g. missing uppercase / digits / special characters, or length outside 8-32).

- Solution: follow the "Password policy requirement" hint at the top of the page, modify the new password accordingly, and submit again.

UNIFIED SERVICE HOTLINE

4008-555-800

Kingdee Apusic Cloud Computing Co., Ltd. (referred to as “Kingdee Apusic”) was founded in 2000. Its predecessor was “Kingdee Middleware Company.” It is a basic software platform provider under Kingdee Group, a national standards-setting enterprise for cloud computing, and a core software enterprise in the national IT application innovation industry. Kingdee Apusic is an enterprise undertaking the National 863 Key R&D Program and the National Major Science and Technology Project for Core Electronic Components, High-end General-purpose Chips and Fundamental Software, and is also a basic platform provider for the national key projects of “Two Networks, One Website, Four Databases, and Twelve Golden Projects.” Its products are widely used in key industries such as government, military, finance, and energy, and it has cumulatively served more than 100,000 customers.



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Basic software enterprise under Kingdee Group
Core enterprise for IT application innovation
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