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# Installation Manual

Apusic Application Server V10

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# 1 Overview

## 1.1 Abstract

This Installation Manual mainly introduces the basic process of installing ,using and uninstalling the Apusic Application Server V10 (referred to as "AAS-V10"), which is suitable for developers who use Apusic Application Server for development, system administrators in production environments, operation and maintenance personnel, etc.

## 1.2 Introduction

Apusic Application Server provides a simple and fast development and operation platform for complex applications. For distributed enterprise level applications, it offers features such as easy scalability, high security, and so on.

On the basis of V9.0, V10 has added functions such as domain management, nodes, independent instances, and cluster management. The domain service manager manages nodes, instances, and clusters uniformly.

By default, there is a local instance server that can create remote nodes. Each node is equivalent to an AAS, and the instance runs on the node.

V10 supports unified management of resources, such as application resources, database resources, etc., which can be used for unified upgrade operations.

## 1.3 Terminology

### 1. Apusic Application Server

A server is the physical deployment unit of an application server. Intuitively, this is a physical installation of the application server on a user machine.

### 2. Domain

A domain is a group of related server resources that are managed as a unit. A domain can contain one or more independent servers, as well as a cluster of servers that share a common set of configurations defined using Extensible Markup Language xml in a configuration file called domain.xml and stored in the DOMAIN\_HOME/config/ directory. A domain is a complete management unit. When an application is deployed in the domain, the application can only be deployed on the servers in the domain. If a domain contains a cluster, all servers in the cluster must belong to the same domain.

### 3. Instance

A server instance is a single virtual machine on the Java platform (JVM) that runs on a single node of the server. Server instances form the basis of application deployment. Instances are important components in building clusters, load balancing, and server session persistence. Each instance belongs to only one domain and has its own directory structure, configuration, and deployed application. Each instance contains a reference to the node.

#### 4. Node

Each node corresponds to a host running application server software. The host where the application server instance is installed must have a corresponding node. The node configuration information includes the machine name and the location of the application server on the host.

#### 5. Cluster

A server cluster is a logical entity collection of multiple server instances that share the same application, resource, and configuration information. Regardless of whether the server instances are on the same host or different hosts, the application server can manage all instances in the cluster as a unit in the administrative control center.

## 1.4 Default Administrative Value

name	default value
domain name	mydomain
asadmin Command-line utilities	APUSIC_HOME/bin
config files	DOMAIN_HOME/config
logs files	DOMAIN_HOME/logs

## 1.5 Default Module Port

functional module	port
Manager port	6848
HTTP port	6888
HTTP SSL port	6887
IIOP SSL port	6838
IIOP MUTUALAUTH port	6839

JMS port	6876
IIOp port	6837
JMX port	6886
OSGI SHELL port	6866
JAVA DEBUGGER port	8000

## 2 System Environment Requirements

### 2.1 Operate System

#### 1. Linux:

- Domestic operating system(Chinese): KylinOS, NeoKylin, iSoft, Red Flag Asianux, Deepin, etc
- RedHat
- CentOS
- Suse Linux

#### 2. Windows:

- Windows 7
- Windows 8
- Windows 10
- Windows 2003
- Windows 2008
- Windows 2012

#### 3. Unix:

- HP Unix
- IBM AIX
- Solaris

### 2.2 JDK Version

1. Oracle JDK 8+
2. Open JDK 8+
3. IBM JDK 8+

## 3 Install and Uninstall

This section describes how to install and uninstall AAS.

### 3.1 Install

#### 3.1.1 Installation on Linux

If the installation package is a .zip package, store it in the specified directory and run the `unzip AAS-V10.zip` command to decompress the installation package.

Obtain the graphical installation package, place it in the specified directory, and run the authorization command `chmod 755 AAS-V10.bin`. Then run `AAS-V10.bin` to complete the installation according to the installation guide.

Name	Size (KB)
..	
ApusicAS	
AAS-V10.zip	407 251

Name	Size (KB)
..	
bin	
config	
docs	
domains	
jmods	
lib	
modules	
osgi	
templates	
license.xml	1

#### 3.1.2 Installation on Windows

If the installation package is a .zip package, store it in a specified directory and unzip the `AAS-V10.zip` package to complete the installation.

If the installation package is a .exe file, double-click `AAS-V10.exe` and follow the installation instructions to install the program.

## 3.2 Uninstall

### 3.2.1 Uninstallation on Linux

If the installation method is directly unzipped zip package, you can go to the installation directory, directly delete the installation directory to uninstall.

For graphical installation, double-click "Uninstall AAS".

Note: You need to stop running AAS before uninstalling.

### ####Uninstallation on Windows

If the installation method is directly unzipped zip package, you can go to the installation directory, directly delete the installation directory to uninstall.

For graphical installation, click Start -> Program -> Kingdee Apusic Application Server -> Uninstall Apusic Application Server.

## 4 License Authorization

AAS requires a corresponding license for normal use. Under normal circumstances, Apusic will match the corresponding license according to the product version purchased by the user.

The license location is `${APUSIC_HOME}/license.xml`.



名称	大小	压缩后大小	类型
..			文件夹
bin	19,487	7,605	文件夹
config	27,667	7,439	文件夹
docs	1,232,947	1,120,858	文件夹
domains	497,320	315,849	文件夹
jmods	2,207,541	2,006,519	文件夹
lib	25,450,021	20,026,828	文件夹
modules	131,628,4...	119,518,3...	文件夹
osgi	704,557	646,178	文件夹
templates	648,009	633,249	文件夹
license.xml	835	626	XML 文档

If the license expires or becomes invalid during usage, it is advisable to contact the relevant Apusic service personnel and initiate a re-application process for the corresponding license. When re-applying for the license, it is essential to furnish the product's authentication code to Apusic's support staff as depicted in the illustration:

```
Waiting for mydomain to start ..Error starting domain mydomain.
The server exited prematurely with exit code 1.
Before it died, it produced the following output:
Launching Apusic on Felix platform
auth code=sfc:cDhwMXxXWS9ueS9LUXltYis4eEdtNVU5ZjFyb3J1cTV3VUNUQUlhK1RL0DRnTVMwPQ==
license is invalid,out of date
Error stopping framework: java.lang.NullPointerException
Command start-domain failed.
```

If the node has an authorization problem, you can view the log. The log will print the corresponding auth code, send the code to the Apusic interconnection personnel to apply for the corresponding license again.

## 5 Start and Stop

### 5.1 Start

#### 5.1.1 Start on Linux

Go to the installation directory `${APUSIC_HOME}/aas/bin` and execute `asadmin start-domain`. The default administrator password is required for the first launch.

```
[apusic@test2 bin]# ./asadmin start-domain

This domain requires an administrative password to be set before
the domain can be started. Please specify an administrative password.
Enter an administrative password for user "audit">
Enter an administrative password for user "audit" again>
Password for User audit has change Successfully!

Enter an administrative password for user "admin">
Enter an administrative password for user "admin" again>
Password for User admin has change Successfully!

Enter an administrative password for user "secure">
Enter an administrative password for user "secure" again>
Password for User secure has change Successfully!
Waiting for mydomain to start ....
Successfully started the domain : mydomain
domain Location: /opt/testz/1213/ApusicAS/aas/domains/mydomain
Log File:
/opt/testz/1213/ApusicAS/aas/domains/mydomain/logs/server.log
Admin Port: 6848
Command start-domain executed successfully.
```

#### 5.1.2 Start on Windows

Go to the installation directory `${APUSIC_HOME}/aas/bin` and execute `asadmin start-domain`. The default administrator password is required for the first launch.

```

E:\testz\1213\AAS-V10\ApusicAS\aaS\bin>asadmin start-domain

This domain requires an administrative password to be set before
the domain can be started. Please specify an administrative password.
Enter an administrative password for user "audit">
Enter an administrative password for user "audit" again>
Password for User audit has change Successfully!

Enter an administrative password for user "admin">
Enter an administrative password for user "admin" again>
Password for User admin has change Successfully!

Enter an administrative password for user "secure">
Enter an administrative password for user "secure" again>
Password for User secure has change Successfully!
Waiting for mydomain to start .....
Successfully started the domain : mydomain
domain Location: E:\testz\1213\AAS-V10\ApusicAS\aaS\domains\mydomain
Log File: E:\testz\1213\AAS-
V10\ApusicAS\aaS\domains\mydomain\logs\server.log
Admin Port: 6848
Command start-domain executed successfully.

```

## 5.2 Stop

### 5.2.1 Stop on Linux

Go to the installation directory `${APUSIC_HOME}/aaS/bin` and execute `asadmin stop-domain`.

```

[apusic@test2 bin]# ./asadmin stop-domain
Waiting for the domain to stop .
Command stop-domain executed successfully.

```

### 5.2.2 Stop on Windows

Go to the installation directory `${APUSIC_HOME}/aaS/bin` and execute `asadmin stop-domain`.

```
E:\testz\1213\AAS-V10\AusicAS\aaS\bin>asadmin stop-domain  
Waiting for the domain to stop .  
Command stop-domain executed successfully.
```

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