

RemoteApp Troubleshooting

Description of the Interaction Between JumpServer, RDS Server, and Tinker

In this article, I will describe in detail how JumpServer, RDS Server, and Tinker interact so that any issues can be identified.

Description of the RDS and JumpServer Integration Process

1. JumpServer connects to the RDS server via SSH:

- Installs the Tinker service on the RDS server and specifies the JS address (Core API parameter).
- Creates local service accounts of the type `js_*` and `jms_*` on the RDS server.
- Adds the created accounts to the "Remote Desktop Users" group.

“ **Important:** The "Remote Desktop Users" group name may differ in Windows, depending on the OS language. If these accounts are not present in the group, you will need to add them manually.

1. Tinker connects to JumpServer at the specified address (Core API parameter):

- Tinker reports that it is running, and the RDS status changes to "online".
- Downloads distributions of selected applets, such as Chrome and DBEaver, from the JS server using the same address specified in the Core API. Other applets may be downloaded from the internet. If there is no internet access, you can manually install the required applications.
- Tinker installs the downloaded applets

Description of Tinker

Tinker is an auxiliary application for integration with JumpServer, assisting in maintaining communication between RDS and JS, installing applications (applets) required for publication, and managing the publication of RemoteApp applications during session initiation.

- By default, it is installed in the folder:
`C:\Users\[ACCOUNT]\AppData\Local\Programs\Tinker\`
(`[ACCOUNT]` is the account used for the integration of JS and RDS.)
- It installs the **JumpServer Tinker Service** - this service must always be running.

- Detailed logs of Tinker's operation and errors are available in the folder:

C:\Users\[ACCOUNT]\AppData\Local\Programs\Tinker\data\logs

Tinker Applets

Applets are a set of applications and automation scripts for managing applications. By default, applets are installed in the folder:

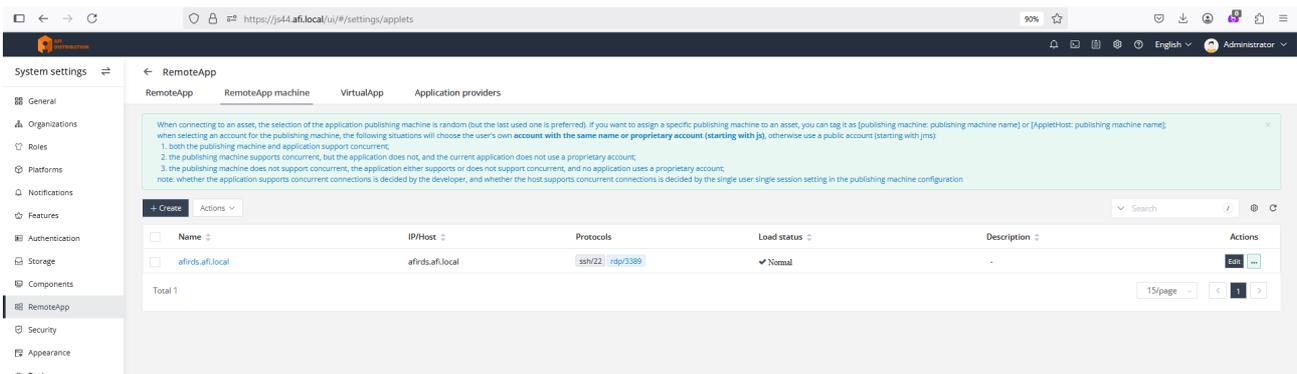
C:\Program Files\JumpServer

This folder contains executable applications and Python scripts with launch parameters that you can modify if necessary.

Final Checklist

- **OpenSSH** is installed on Windows RDS, and port **22** is open on the Windows firewall.
- The account used for integration with RDS has **administrator rights** on the RDS server.
- The **IP/Host** field contains the **IP address** of the RDS server or its **DNS name**, which can be resolved by JumpServer.
- The **Core API** field contains the **URL of JumpServer**, accessible from the RDS Server.
- Accounts of the type **JS_XX** and **JMS_XX** are created on the RDS server.
- Accounts of the type **JS_XX** and **JMS_XX** are members of the **Remote Desktop Users** group on the RDS server.
- The **JumpServer Tinker Service** is running on the RDS server.
- The **RDS server status** in the JumpServer interface: **Normal**.
- The **Status of applets** in the properties of the RDS server in the JumpServer interface: **Success**.

Here are some screenshots for example:



Basic

* Name

* IP/Host

Protocol

Protocols

i The protocols supported by the assets are restricted by the platform. Click the settings button to view the protocol settings. If updates are required, please update the platform

Account

Accounts [Update account info in asset details](#)

Using same account

Auto create accounts

Accounts create amount

Automation

Core API

Ignore certificate verification

Existing RDS license

System settings > RemoteApp

RemoteApp machine: afirds.af.local

Name	IP/Host	Protocols
afirds.af.local	afirds.af.local	ssh/22 rdp/3389

Total 1

RemoteApp machine: afirds.af.local

Basic Accounts RemoteApp Deploy publishing machine Activities

RECENT (7 DAYS)
Recently discovered | Recently logged in | Recently modified | Recently changed password | Recent password change failed

RISKY ACCOUNT
No login for long time | Add account | Weak password | Empty password | Long time password

ACCOUNT TYPE
All Host | Database | Cloud | Device | Web | Other

Name	Username	Asset	Connect	Actions
jms_3V0Ddjar	jms_3V0Ddjar	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>
jms_62IQmV1	jms_62IQmV1	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>
jms_D66I2Sp5	jms_D66I2Sp5	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>
jms_EKJ8v3N	jms_EKJ8v3N	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>
jms_Ee7C5Cq	jms_Ee7C5Cq	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>
jms_JRXD9cYj	jms_JRXD9cYj	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>
jms_OS8h7ro4	jms_OS8h7ro4	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>
jms_WWj71Nn2	jms_WWj71Nn2	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>
jms_ppOf6H3m	jms_ppOf6H3m	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>
jms_wQ000Rf	jms_wQ000Rf	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>
js_ACUNETX	js_ACUNETX	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>
js_ACUNETX8	js_ACUNETX8	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>
js_AFIDC	js_AFIDC	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>
js_AFIDC8	js_AFIDC8	afirds.af.local	<input type="button" value="⌨️"/>	<input type="button" value="View"/> <input type="button" value="⋮"/>

RemoteApp machine: afirds.afi.local

Basic Accounts RemoteApp Deploy publishing machine Activities

Search

<input type="checkbox"/>	Name	Version	Date	Release status	Actions
<input type="checkbox"/>	Base	0.2.2	04/02/2025 11:24:19	Success	Deploy... Uninst...
<input type="checkbox"/>	Mong	0.2.2	04/02/2025 11:24:36	Success	Deploy... Uninst...
<input type="checkbox"/>	Firefc	0.2.0	04/02/2025 11:25:04	Success	Deploy... Uninst...
<input type="checkbox"/>	DBea	0.3	04/02/2025 11:25:40	Success	Deploy... Uninst...
<input type="checkbox"/>	Chro.	1.1	04/02/2025 11:25:40	Success	Deploy... Uninst...

Total 5

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Quick update

- Initialization deployment **Deployment**
- Only initial deployment **Deployment**
- Publish all applications **Publish**

Версия #1

Сергей Попцов создал 7 апреля 2025 15:50:50

Сергей Попцов обновил 7 апреля 2025 15:53:10