



# **WiKID Authentication Server**

## **Quick-Start Guide**

**Version 3.0**

### **Initial Configuration & Networking**

## **WiKID Authentication Server: Quick Start Guide**

### **Introduction**

The WiKID Authentication Server (WAS) provides a scalable distributed platform for strong, two-factor authentication. The system has been specifically engineered to achieve the following goals:

- Security – Provide a highly secure platform for two-factor authentication that equals or surpasses competitive systems in use today.
- Usability – Create a system that is more usable and convenient to end users and system administrators alike.
- Economy – Significantly lower the cost barrier to deploying strong authentication.

The embodiment of the goals is the WiKID Authentication System.

This is a two-part procedural guide and should be followed linearly from beginning to end, starting with this guide. Performing the steps in this guide will familiarize an administrator with the basic object concepts used in the system as well as the object dependencies and interrelations. Emphasis is placed on the initial setup of the system. For more detailed information on advance topics such as certificate generation, SSH tunneling or firewall configuration, please see the WAS Administration Manual.

Helpful skills for completing this guide include:

- Basic familiarity with a Unix command shell
- Basic familiarity with Web-based applications
- Basic familiarity with Windows or Wireless applications

The minimum requirements for completing the steps in this guide are:

- Basic network configuration data (server IP addresses, DNS addresses, default gateway, fully qualified domain name for the server)
- WiKID client software (Java, Win32, RIM OS, PocketPC, or Palm)
- A network connected system with a web browser
- A WiKID Authentication Server
- An SSH client (such as Putty for Windows – an excellent freeware tool)

This Quick-start Guide will walk you through the following steps:

- Configuring Networking
- Starting the Server

## **WiKID Commands**

There are only 4 commands required to run the WiKID server:

**setup** – This is the command that starts the configuration process for setting the timezone, changing the default root password, configuring networking and establishing replication.

**start** – Starts the WiKID server and required additional services, such as the RADIUS server, if necessary. Once the server is started, you can access the WiKID Web Interface.

**stop** - Stops the WiKID server and additional services. You will need to stop the server after you create the Server Certificates (in the next Guide), after you add RADIUS network clients and before you upgrade the server.

**upgrade** – After downloading an upgrade package via the Web Interface, you must stop the server and run the upgrade command. The Web Interface Upgrade page will provide upgrade instructions. Typically, the command includes the upgrade version and build number: “upgrade 1.1 73” e.g.

## **Configuring the Appliance**

The initial state of the WAS when shipped is disabled. The server must be configured via a console connection to begin communication on the network. Connect a standard PC keyboard and monitor (or KVM switch) and the appropriate Ethernet connections to the appliance and power-on.

You should see the server POST and the WiKID appliance boot loader. Next the Linux kernel messages will display as the system boots. Finally, you will be presented with a log-on prompt. Use the following credentials for the initial login:

Username: **root** (*lowercase*)

Password: **wikid** (*lowercase*)

At first login, you will be requested to set your time zone. Select your time zone and select OK.



Figure 1

You will then be required to change the Root password. Please type in and confirm your desired root password. **REMEMBER THIS PASSWORD!**

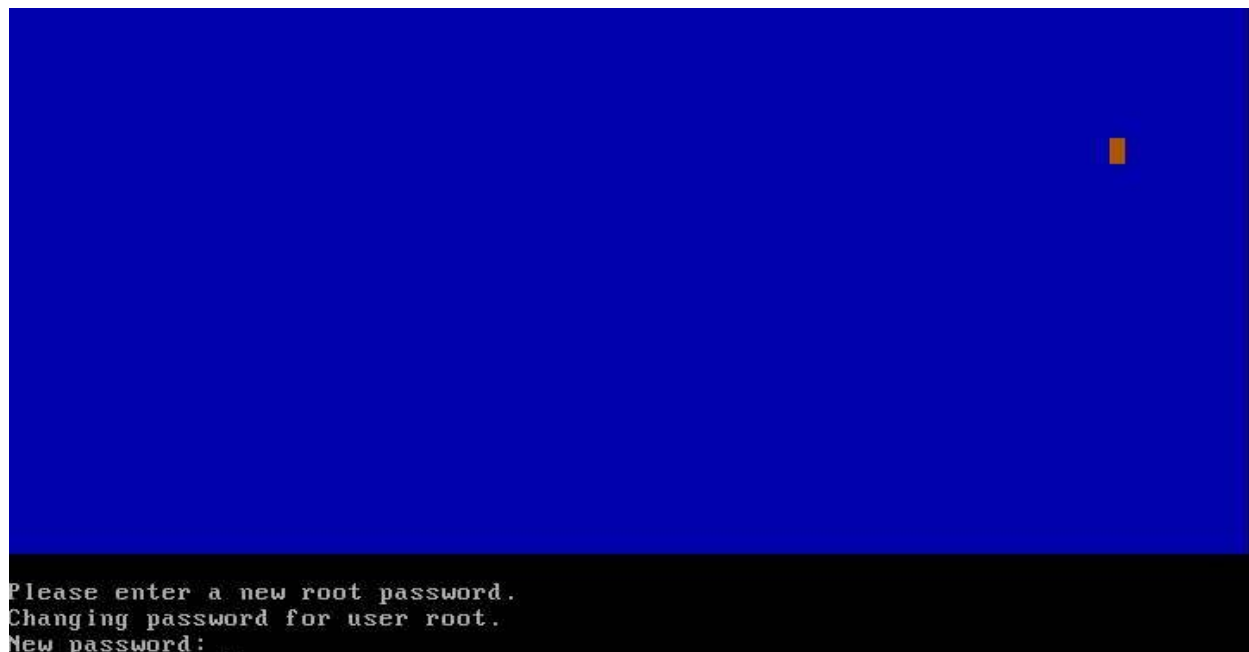
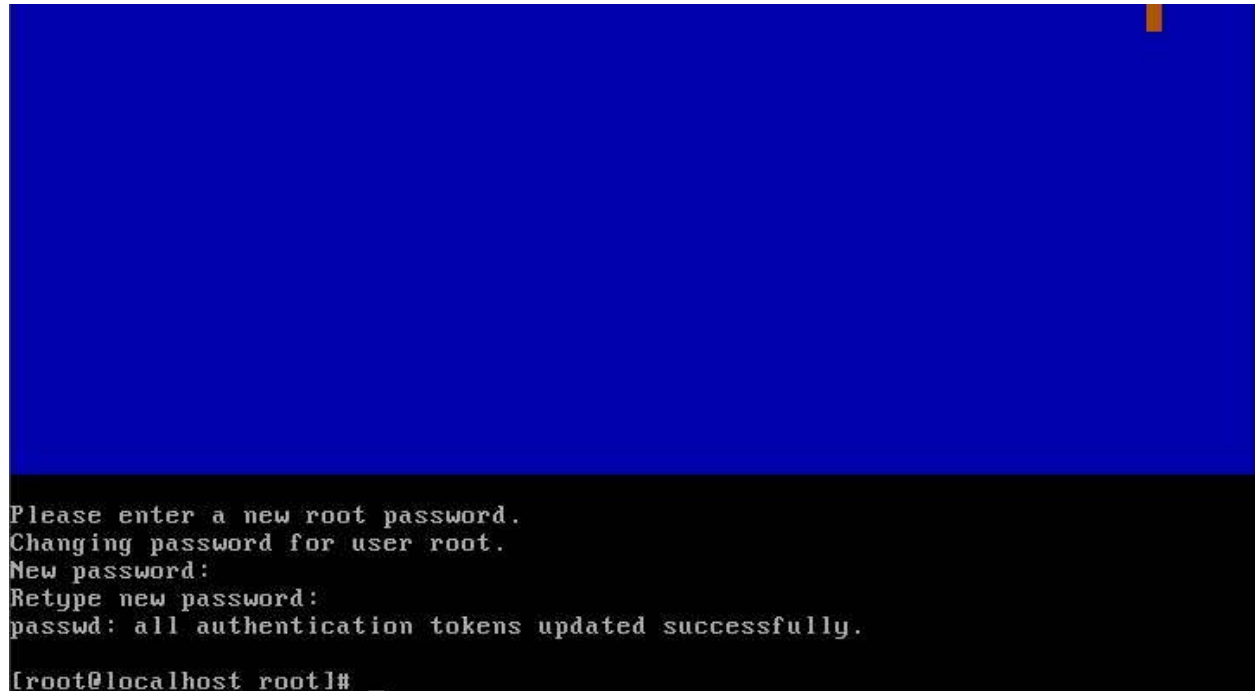


Figure 2

You will get a command prompt:

A terminal window with a blue background and a black command prompt area at the bottom. The text in the terminal shows the process of changing the root password. It starts with a prompt for a new password, followed by a confirmation prompt, and ends with a successful message and a new prompt.

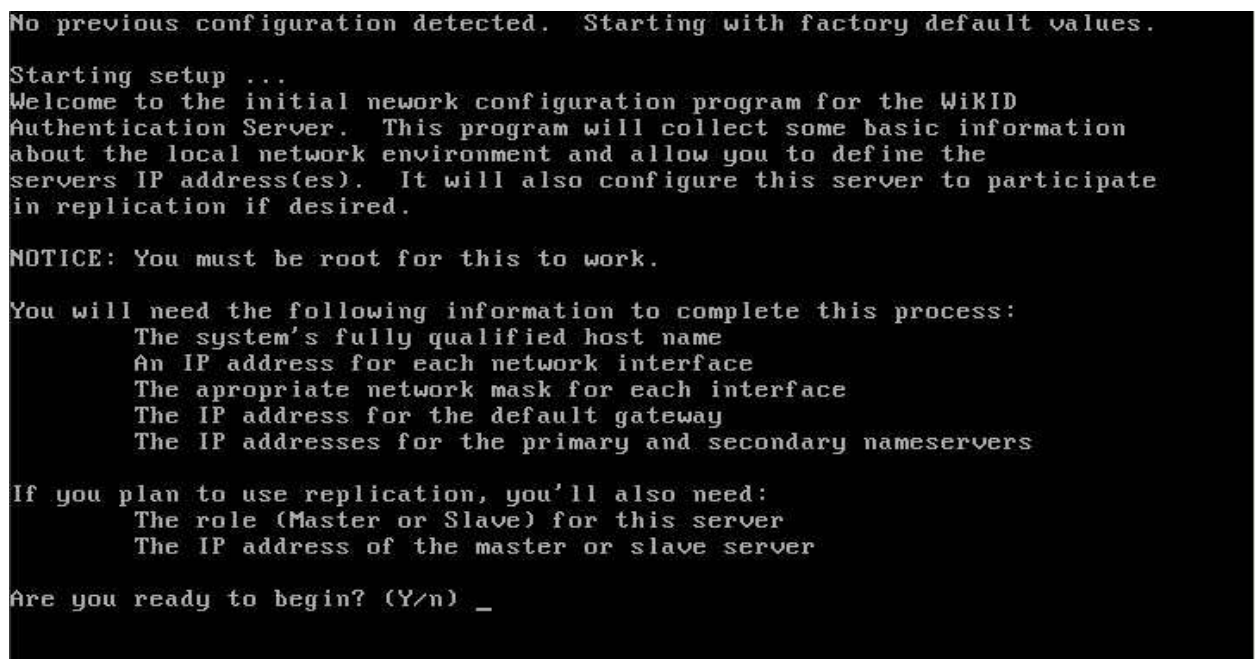
```
Please enter a new root password.  
Changing password for user root.  
New password:  
Retype new password:  
passwd: all authentication tokens updated successfully.  
[root@localhost root]# _
```

Figure 3

Now type:

```
{root@localhost root}# setup
```

Press [**Enter**] to begin the basic system setup process as shown in Figure 4.

A terminal window with a black background and white text. The text displays the initial setup screen for the WiKID Authentication Server. It includes a welcome message, a list of required information for setup, and a notice about root access. The screen ends with a question about whether to begin the setup process.

```
No previous configuration detected. Starting with factory default values.  
  
Starting setup ...  
Welcome to the initial network configuration program for the WiKID  
Authentication Server. This program will collect some basic information  
about the local network environment and allow you to define the  
servers IP address(es). It will also configure this server to participate  
in replication if desired.  
  
NOTICE: You must be root for this to work.  
  
You will need the following information to complete this process:  
  The system's fully qualified host name  
  An IP address for each network interface  
  The appropriate network mask for each interface  
  The IP address for the default gateway  
  The IP addresses for the primary and secondary nameservers  
  
If you plan to use replication, you'll also need:  
  The role (Master or Slave) for this server  
  The IP address of the master or slave server  
  
Are you ready to begin? (Y/n) _
```

Figure 4 – Initial setup screen

The initial setup screen will describe the information needed to successfully complete the basic setup process. Ensure you have the required information and enter **y** to begin. If you do not have the information needed, enter **n** and you will be returned to the command prompt. You can re-do the installation by entering '**setup**' at the root prompt and following the previous steps at a later time.

If you have the necessary information, you will be prompted to enter it as shown in Figure 5. For each parameter, the expected format is shown in parentheses at the end of the parameter description. *There are no default values.* Each value must be entered during the setup process.

After completing the process, the entered data will be displayed for verification. If everything is correct, enter **y** to continue. If there are errors in the parameter values, enter **n** to begin the prompting again. All values will need to be entered again.

```
Are you ready to begin? (y/n) y
Fully Qualified Domain Name (None): eval2.wikidsystems.com
IP Address for Ethernet #1 (0.0.0.0): 10.0.0.233
Network Mask for Ethernet #1 (255.255.255.0): 255.255.255.0
IP Address for Ethernet #2 (0.0.0.0): 192.168.0.1
Network Mask for Ethernet #2 (255.255.255.0): 255.255.255.0
IP Address of Default Gateway (0.0.0.0): 10.0.0.1
IP Address of Primary Nameserver (0.0.0.0): 10.0.0.1
IP Address of Secondary Nameserver (0.0.0.0): 24.196.236.174

The system's fully qualified host name: eval2.wikidsystems.com
The IP address for ethernet adapter #1: 10.0.0.233
The network mask for ethernet adapter #1: 255.255.255.0
The IP address for ethernet adapter #2: 192.168.0.1
The network mask for ethernet adapter #2: 255.255.255.0
The IP address for the default gateway: 10.0.0.1
The IP addresses for the primary nameserver: 10.0.0.1
The IP addresses for the secondary nameserver: 24.196.236.174

Is this correct? (y/n) █
```

Figure 5

Once you have configured basic networking, you will need to create a certificate for the Web Interface.

**Important:** When prompted for your first and last name, enter the fully qualified domain name, not your first and last name as asked! Otherwise, your browser will not accept it as valid and you will have to accept it each time you login.

```
SSL certificate. Please complete the prompts below to provide the X500 data for
this server's certificate. Whenever you access the administration site, you
will be prompted to accept this certificate by your browser. The certificate
is stored in the file '/opt/WiKID/conf/tomcatKeystore' and can be regenerated
by deleting this file and re-starting the WiKID server.

When prompted for your name, please use the fully-qualified host name for this
server.

What is your first and last name?
[Unknown]: test05.wikidsystems.com
What is the name of your organizational unit?
[Unknown]: WiKID
What is the name of your organization?
[Unknown]: WiKID Systems Inc
What is the name of your City or Locality?
[Unknown]: Atlanta
What is the name of your State or Province?
[Unknown]: Georgia
What is the two-letter country code for this unit?
[Unknown]: US
Is CN=test05.wikidsystems.com, OU=WiKID, O=WiKID Systems Inc, L=Atlanta, ST=Geor
gia, C=US correct?
[no]: yes_
```

Enter the domain name  
Not your name!

Figure 6

Once the certificate has been generated, you will be returned to the command prompt. At the command prompt type “**start**”.

```
{root@localhost root}# start
```

**Note:** If the server indicates that Postgresql start failed or if you have difficulty connecting to the server via your web browser, you may need to restart the server after setup. At the root prompt type:

```
[root@localhost root]# reboot
```

The system will reboot. Log in again as root, using your new password and type:

```
[root@localhost root]# start
```

The WiKID Server should restart.

Congratulations! You have completed the Initial Networking Configuration of you WiKID Authentication Server. You will now continue via the simple Web Interface. The URL given for the administration server is based on the IP address assigned to the primary network interface, e.g.: <https://wikid.domainname.com/WiKIDAdmin/>.