

# Zero Touch Server Provisioning.

Please note that when configuring Phones for Cloud instances there are a few things we want to keep in mind.

We need to log into the pbx and go into System Admin and make sure that under provisioning protocols that we set HTTP Authentication to Both.

## System Admin

**Provisioning Protocols**

On this page you can set your FTP and HTTP Server authentication information.

Most modern devices support HTTP (currently port 83) or HTTPS (currently port 1443) provisioning with Username and Password authentication to request their configuration. You can configure these ports on the Port Management Page

FTP is the older protocol used for provisioning devices, but is not Firewall-friendly, and can be unreliable through NAT.

Enabling Provisioning Authentication is **highly recommended** as it adds an extra level of security to your provisioning server, by removing the ability for automated scanners to guess the identity of configured devices.

There is a possibility that **any device** that has physical access to your network could have the ability to see these credentials. It is recommended to use the randomly generated ones provided.

FTP Server	<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled
FTP Username	<input type="text" value="Username that FTP Clients will use"/>
FTP Password	<input type="text" value="Password that FTP Clients will use"/>
TFTP Server	<input checked="" type="checkbox"/> Enabled <input type="checkbox"/> Disabled
HTTP(s) Authentication	<input type="radio"/> None <input checked="" type="radio"/> Both <input type="radio"/> HTTPS Only <input type="radio"/> HTTP Only

We should also note the Http username and password listed below the above section.

Next step is to log into Endpoint Manager and we want to create a new template for the model phone in question.

## Endpoint Manager

**About Endpoint Manager**

This module is used to automatically provision & configure Desk Phones, Wireless Phones, Door Phones, Overhead Paging Devices, Gateways, and Specialty devices from supported manufacturers.

For information and instructions on using Endpoint Manager, please see the Endpoint Manager Wiki .

To get started please choose an option in the ☰ Menu on the right.

☰ **EndPoint**

- Global Settings
- Extension Mapping
- Brands**
- Digium
- Polycom
- Sangoma

Once we have the brand of phones set we can create templates as shown below.

## Endpoint Manager

New Template Import Template

Template	Used By
sangoma_default	4002 4003 4009
sangoma_sx00_phones	4006

Showing 1 to 2 of 2 rows

**Default Internal Template**

**Default External Template**

We also need to create extensions and we would want to make sure we have the mac address for the phones that will be associated with the extensions.

We will go into the extension module edit / create a new extension and fill in all information then navigate to the other tab within the extension and

### Extension: 1234

General Voicemail Find Me/Follow Me Advanced Pin Sets Zulu Other

**Edit Extension**

This device uses **CHAN\_SIP** technology listening on Port 5060 (UDP), Port 5060 (TCP), Port 5061 (TLS)

**Display Name**

**Outbound CID**

**Secret**

Once you're in the other tab select brand / template and phone model and enter the MAC address of the phone you plan on using.

### Extension: 1234

General Voicemail Find Me/Follow Me Advanced Pin Sets Zulu Other

**Endpoint**

**Brand**

**MAC**

**Template**

**Model**

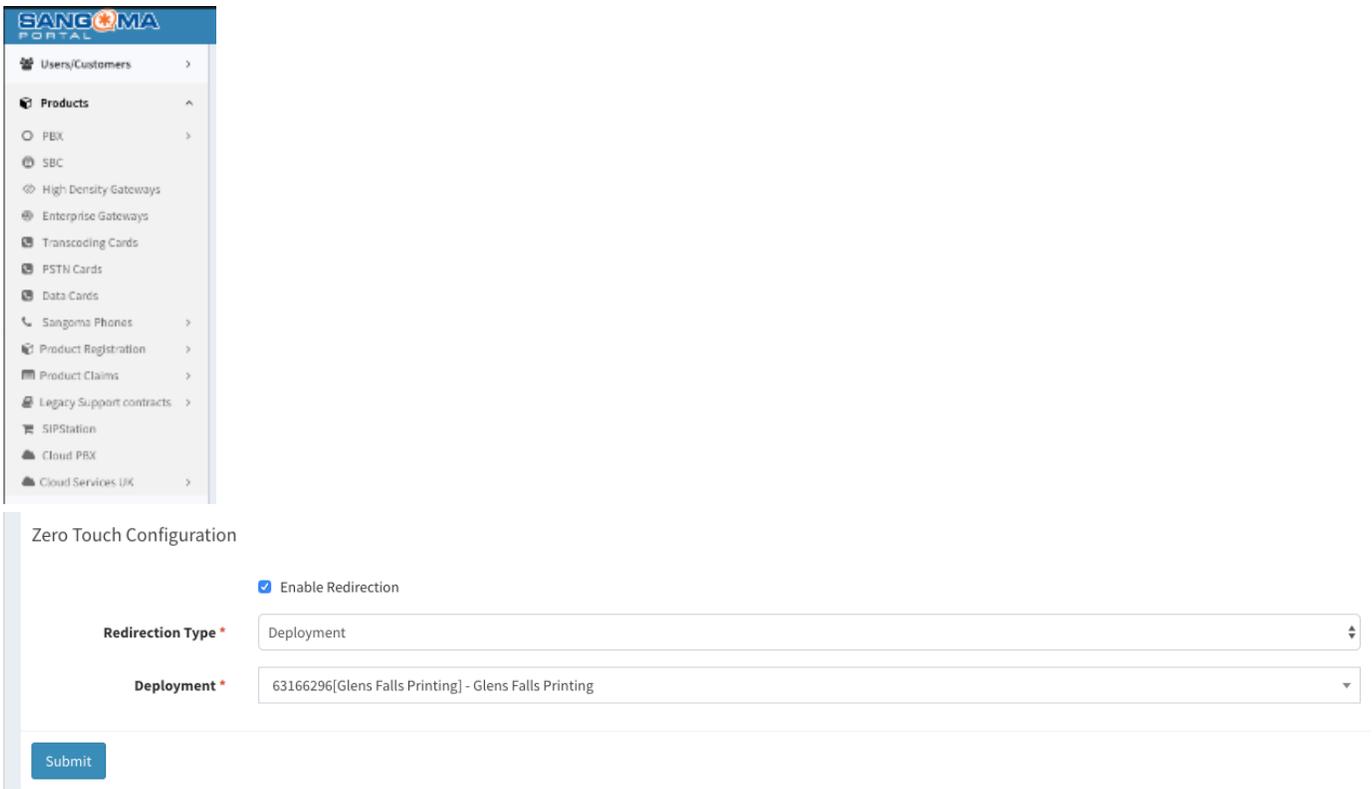
**Account**

After the above has been completed you can do one of two things. you can now log into your non sangoma phone and put in the sip credentials to register the phone based on the manufacturer. For a list of supported phone models and how to configure you can go to the following link

### EPM-Supported Devices

For Sangoma phones you can setup the redirection / zero touch provisioning by doing the following.

1. Log into [portal.sangoma.com](http://portal.sangoma.com)
2. click on products
3. click on Phones and a new screen will pop up. you can enter the mac address of the phone your trying to provision. The pictures below show the place where you can look up your phone mac and the next one shows you where you will set the deployment ID of your pbx for the redirection.



The image shows a screenshot of the Sangoma Portal interface. On the left is a navigation menu with the following items: Users/Customers, Products (expanded), PBX, SBC, High Density Gateways, Enterprise Gateways, Transcoding Cards, PSTN Cards, Data Cards, Sangoma Phones, Product Registration, Product Claims, Legacy Support contracts, SIPStation, Cloud PBX, and Cloud Services UK. The main content area is titled "Zero Touch Configuration" and contains the following elements:

- A checked checkbox labeled "Enable Redirection".
- A dropdown menu labeled "Redirection Type \*" with "Deployment" selected.
- A dropdown menu labeled "Deployment \*" with "63166296[Glens Falls Printing] - Glens Falls Printing" selected.
- A blue "Submit" button at the bottom left.

Make sure to check Enable Redirection and then set redirection type to Deployment and then for Deployment you would just add the Deployment ID of your PBX.