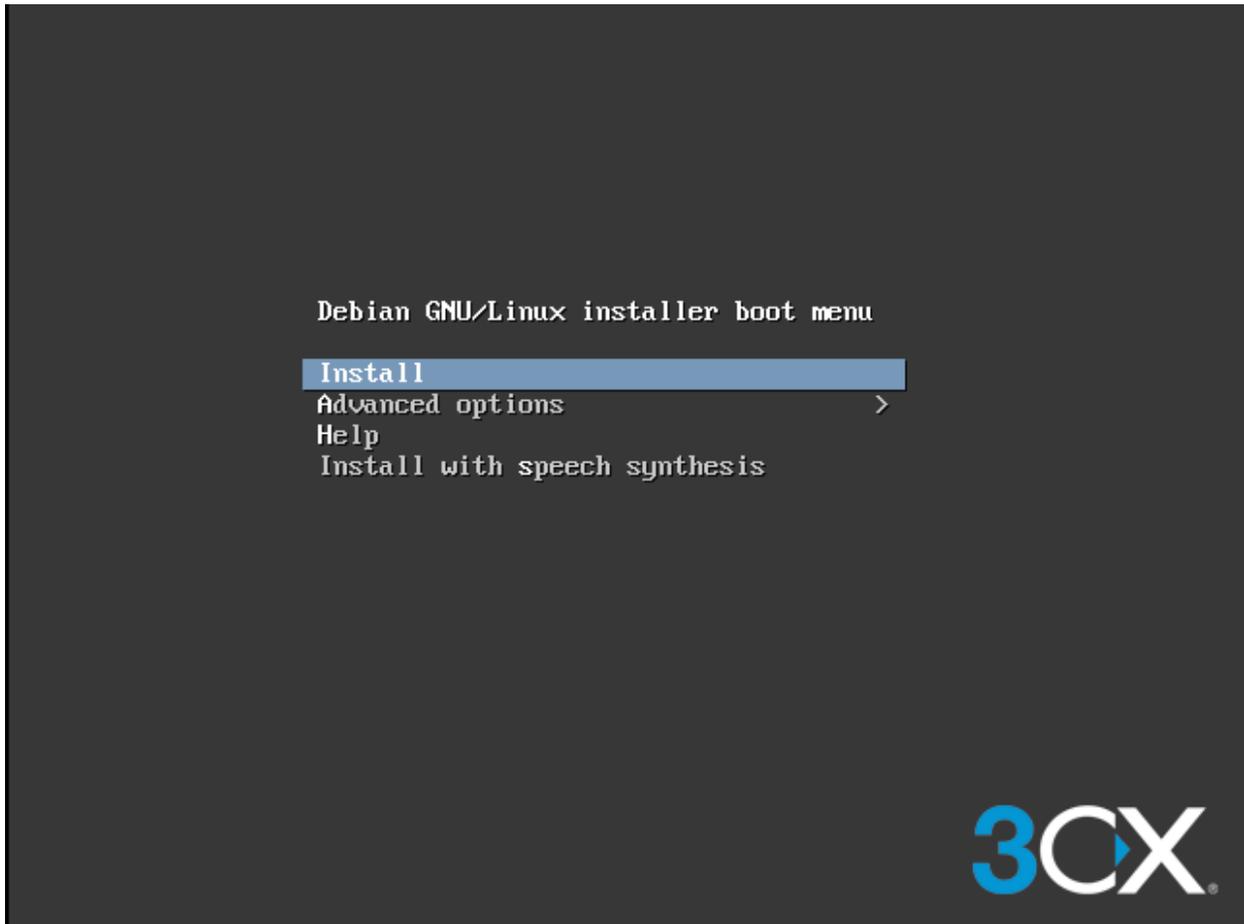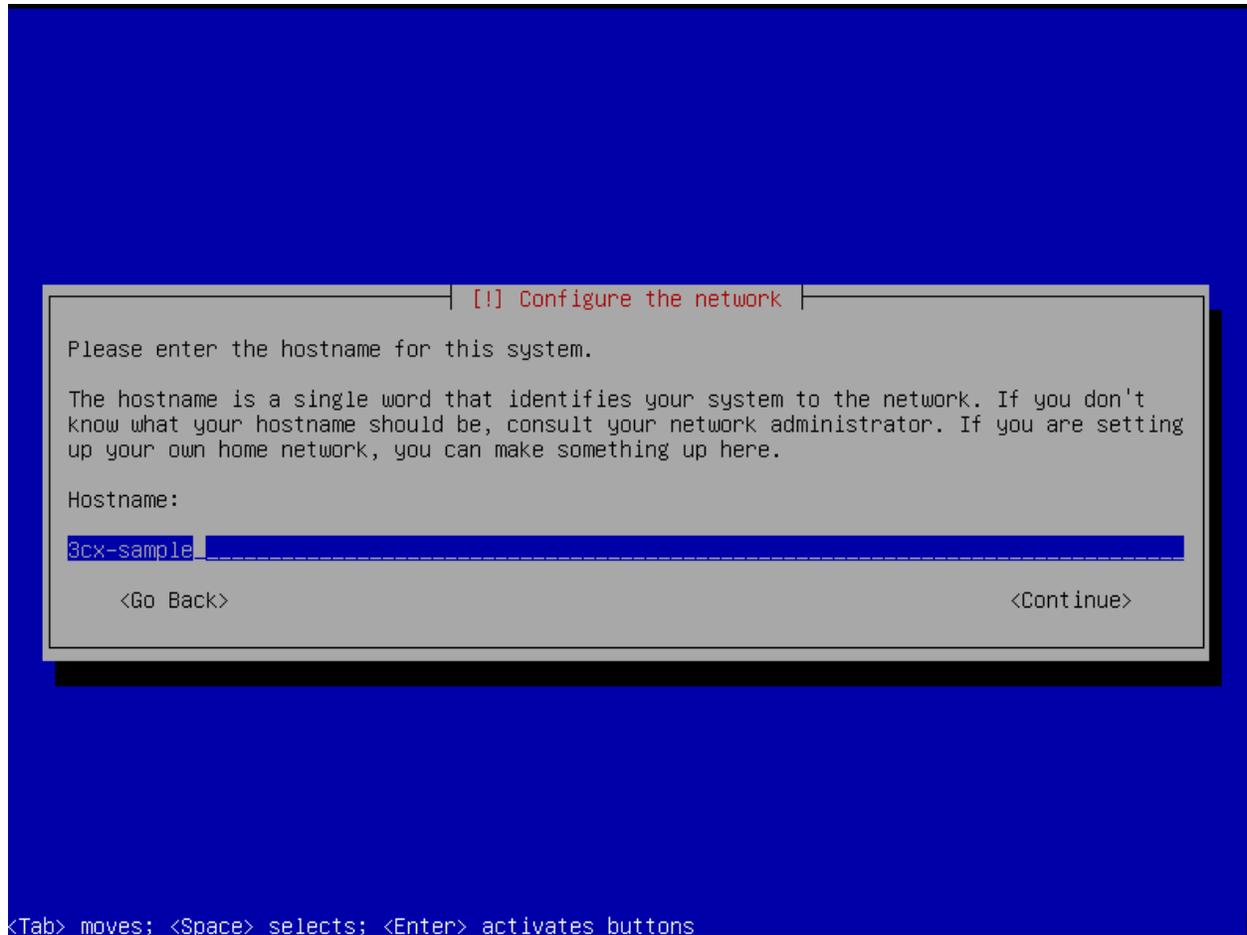# 3CX Install with IP Auth SIP Trunk for QuestBlue

Follow the prompts below to complete an install of 3CX

3CX Install with IP Auth SIP Trunk for QuestBlue

```
                    ┤ [!] Configure the network ├
  Please enter the hostname for this system.

  The hostname is a single word that identifies your system to the network. If you don't
  know what your hostname should be, consult your network administrator. If you are setting
  up your own home network, you can make something up here.

  Hostname:

  3cx-sample_____

        <Go Back>                                                    <Continue>



  <Tab> moves; <Space> selects; <Enter> activates buttons
```

```
                    ┤ [!!] Select a language ├
 Choose the language to be used for the installation process. The selected language will
 also be the default language for the installed system.

 Language:

                 C                     -  No localization      ↑
                 Albanian              -  Shqip
                 Arabic                -  عربي
                 Asturian              -  Asturianu
                 Basque                -  Euskara
                 Belarusian            -  Беларуская
                 Bosnian               -  Bosanski             ▮
                 Bulgarian             -  Български
                 Catalan               -  Català
                 Chinese (Simplified)  -  中文(简体)
                 Chinese (Traditional) -  中文(繁體)
                 Croatian              -  Hrvatski
                 Czech                 -  Čeština
                 Danish                -  Dansk
                 Dutch                 -  Nederlands
                 English               -  English
                 Esperanto             -  Esperanto
                 Estonian              -  Eesti
                 Finnish               -  Suomi
                 French                -  Français
                 Galician              -  Galego
                 German                -  Deutsch
                 Greek                 -  Ελληνικά             ↓

     <Go Back>

 <Tab> moves; <Space> selects; <Enter> activates buttons
```

```
                        ┤ [!!] Select your location ├
  The selected location will be used to set your time zone and also for example to help
  select the system locale. Normally this should be the country where you live.

  This is a shortlist of locations based on the language you selected. Choose "other" if
  your location is not listed.

  Country, territory or area:

                              Antigua and Barbuda
                              Australia
                              Botswana
                              Canada
                              Hong Kong
                              India
                              Ireland
                              Israel
                              New Zealand
                              Nigeria
                              Philippines
                              Singapore
                              South Africa
                              United Kingdom
                              United States
                              Zambia
                              Zimbabwe
                              other

        <Go Back>



  <Tab> moves; <Space> selects; <Enter> activates buttons
```
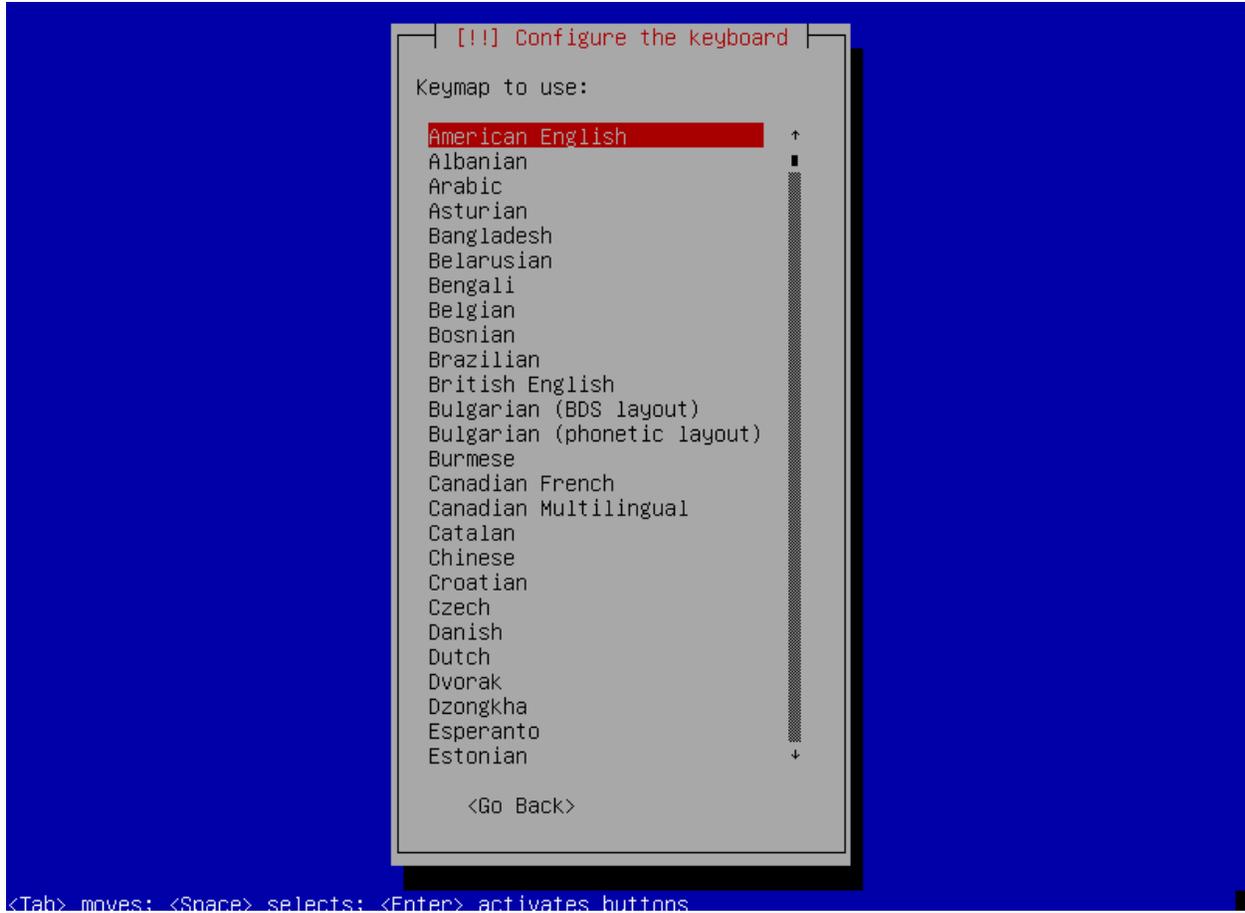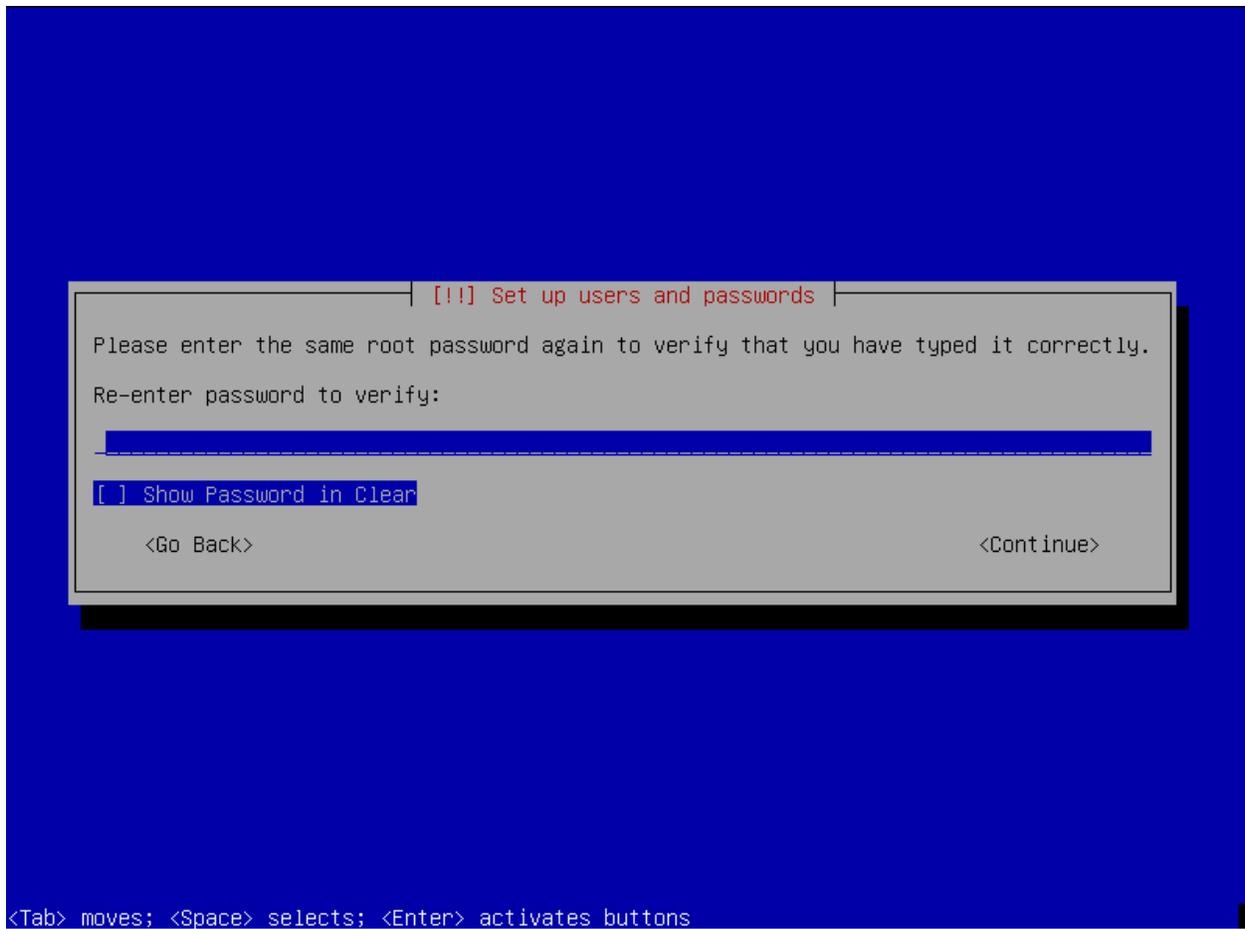
3CX Install with IP Auth SIP Trunk for QuestBlue

```
┤ [!!] Configure the keyboard ├

Keymap to use:

American English                    ↑
Albanian                            ■
Arabic
Asturian
Bangladesh
Belarusian
Bengali
Belgian
Bosnian
Brazilian
British English
Bulgarian (BDS layout)
Bulgarian (phonetic layout)
Burmese
Canadian French
Canadian Multilingual
Catalan
Chinese
Croatian
Czech
Danish
Dutch
Dvorak
Dzongkha
Esperanto
Estonian                            ↓

        <Go Back>
```

<Tab> moves; <Space> selects; <Enter> activates buttons

```
┤ [!!] Set up users and passwords ├

You need to set a password for 'root', the system administrative account. A malicious or
unqualified user with root access can have disastrous results, so you should take care to
choose a root password that is not easy to guess. It should not be a word found in
dictionaries, or a word that could be easily associated with you.

A good password will contain a mixture of letters, numbers and punctuation and should be
changed at regular intervals.

The root user should not have an empty password. If you leave this empty, the root
account will be disabled and the system's initial user account will be given the power to
become root using the "sudo" command.

Note that you will not be able to see the password as you type it.

Root password:

_____

[ ] Show Password in Clear

     <Go Back>                                                          <Continue>
```

`<Tab> moves; <Space> selects; <Enter> activates buttons`

```
                       ┤ [!!] Set up users and passwords ├
  Please enter the same root password again to verify that you have typed it correctly.

  Re-enter password to verify:

  _____

  [ ] Show Password in Clear

       <Go Back>                                              <Continue>



<Tab> moves; <Space> selects; <Enter> activates buttons
```
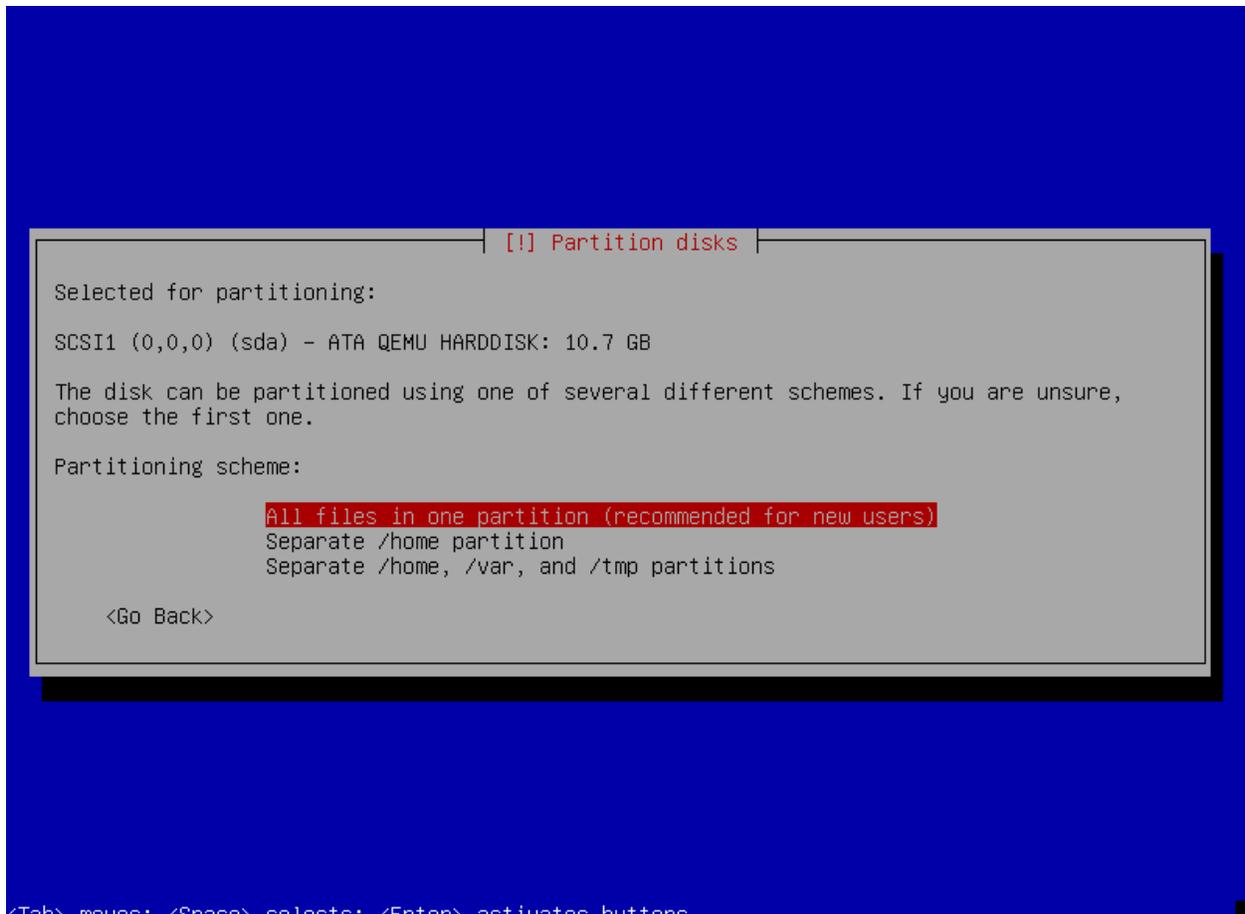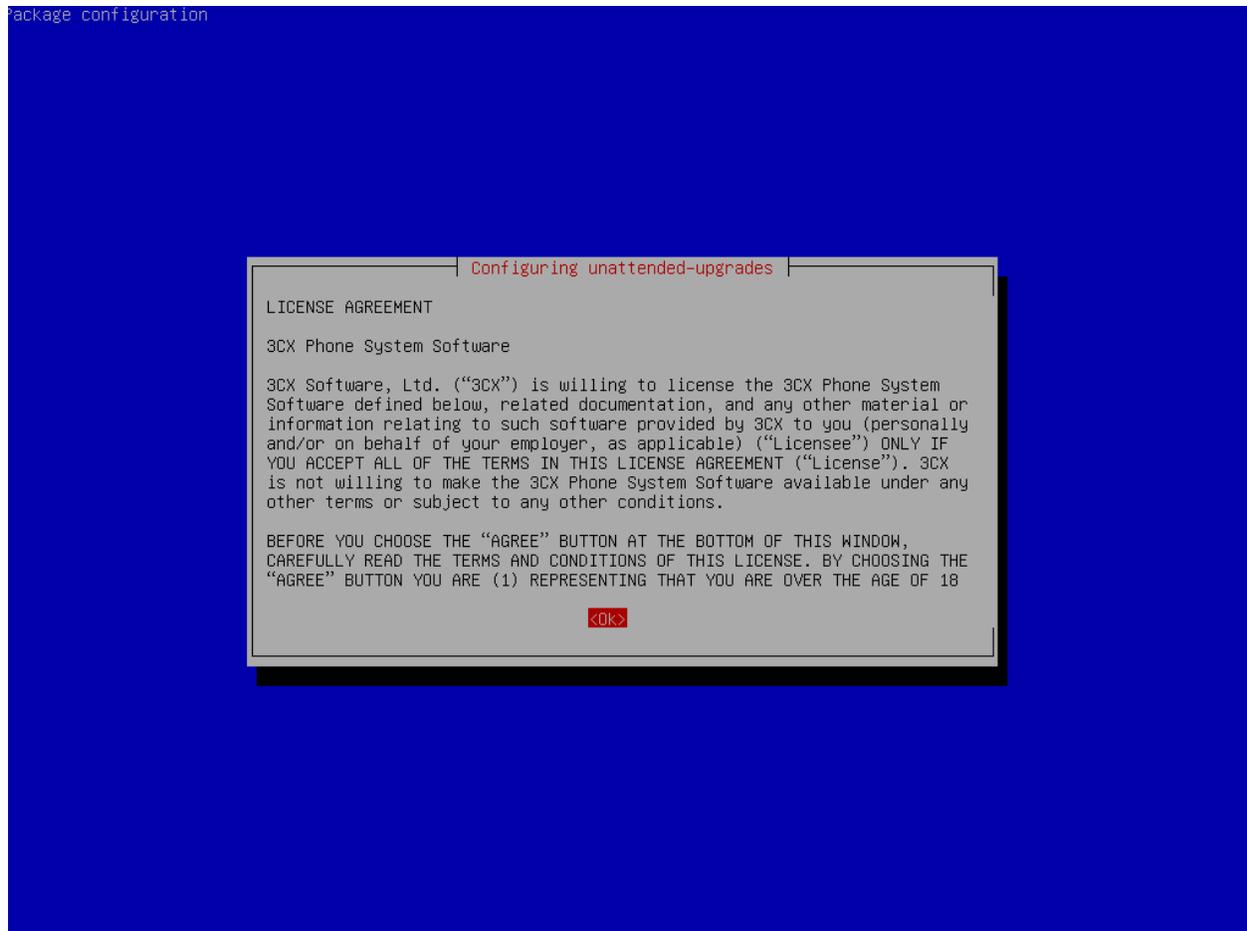
3CX Install with IP Auth SIP Trunk for QuestBlue

```
┤ [!] Configure the clock ├

If the desired time zone is not listed, then please go back to the step "Choose language"
and select a country that uses the desired time zone (the country where you live or are
located).

Select your time zone:

                              Eastern
                              Central
                              Mountain
                              Pacific
                              Alaska
                              Hawaii
                              Arizona
                              East Indiana
                              Samoa

        <Go Back>



<Tab> moves; <Space> selects; <Enter> activates buttons
```

```
                        ┤ [!!] Partition disks ├

The installer can guide you through partitioning a disk (using different standard
schemes) or, if you prefer, you can do it manually. With guided partitioning you will
still have a chance later to review and customise the results.

If you choose guided partitioning for an entire disk, you will next be asked which disk
should be used.

Partitioning method:

              Guided - use entire disk
              Guided - use entire disk and set up LVM
              Guided - use entire disk and set up encrypted LVM
              Manual

      <Go Back>
```

```
<Tab> moves; <Space> selects; <Enter> activates buttons
```

```
                          ┤ [!!] Partition disks ├
 Note that all data on the disk you select will be erased, but not before you have
 confirmed that you really want to make the changes.

 Select disk to partition:

                  SCSI1 (0,0,0) (sda) - 10.7 GB ATA QEMU HARDDISK

       <Go Back>
```

```
                          ┤ [!] Partition disks ├

  Selected for partitioning:

  SCSI1 (0,0,0) (sda) - ATA QEMU HARDDISK: 10.7 GB

  The disk can be partitioned using one of several different schemes. If you are unsure,
  choose the first one.

  Partitioning scheme:

                  All files in one partition (recommended for new users)
                  Separate /home partition
                  Separate /home, /var, and /tmp partitions

      <Go Back>

<Tab> moves; <Space> selects; <Enter> activates buttons
```

```
                        ┤ [!!] Partition disks ├

This is an overview of your currently configured partitions and mount points. Select a
partition to modify its settings (file system, mount point, etc.), a free space to create
partitions, or a device to initialize its partition table.

                Guided partitioning
                Configure software RAID
                Configure the Logical Volume Manager
                Configure encrypted volumes
                Configure iSCSI volumes

                SCSI1 (0,0,0) (sda) - 10.7 GB ATA QEMU HARDDISK
                    #1  primary  8.6 GB   f  ext4    /
                    #5  logical  2.1 GB   f  swap    swap

                Undo changes to partitions
                Finish partitioning and write changes to disk

        <Go Back>
```

```
<F1> for help; <Tab> moves; <Space> selects; <Enter> activates buttons
```

┤ [!!] Partition disks ├

If you continue, the changes listed below will be written to the disks. Otherwise, you
will be able to make further changes manually.

The partition tables of the following devices are changed:
    SCSI1 (0,0,0) (sda)

The following partitions are going to be formatted:
    partition #1 of SCSI1 (0,0,0) (sda) as ext4
    partition #5 of SCSI1 (0,0,0) (sda) as swap

Write the changes to disks?

    <Yes>   <No>

<Tab> moves; <Space> selects; <Enter> activates buttons

```
┌──────────────────────── 3CX Update Channel ────────────────────────┐
│ 3CX Stable      16.0.5.619 (Install for production use)            │
│ 3CX Beta        16.0.6.584 (For evaluation - No Support)          │
│ 3CX SBC Stable  16.0.390 (Install for production use)             │
│ 3CX SBC Beta    16.2.24 (For evaluation - No Support)             │
│                                                                    │
│                                                                    │
│            <Ok>                        <Cancel>                    │
└────────────────────────────────────────────────────────────────────┘
```
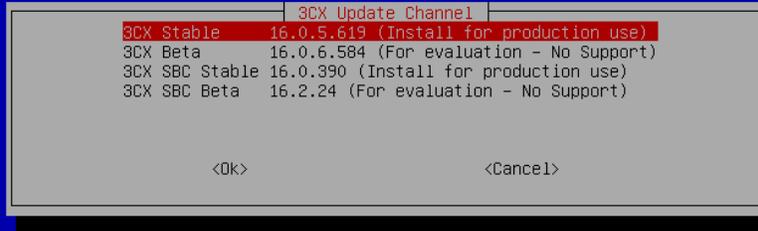
When you reach the page below enter "1" for using a web browser.

Navigate to the link provided in your browser to pull up the 3CX GUI.

3CX Install with IP Auth SIP Trunk for QuestBlue

Click the and enter your personal information to have the license key emailed.
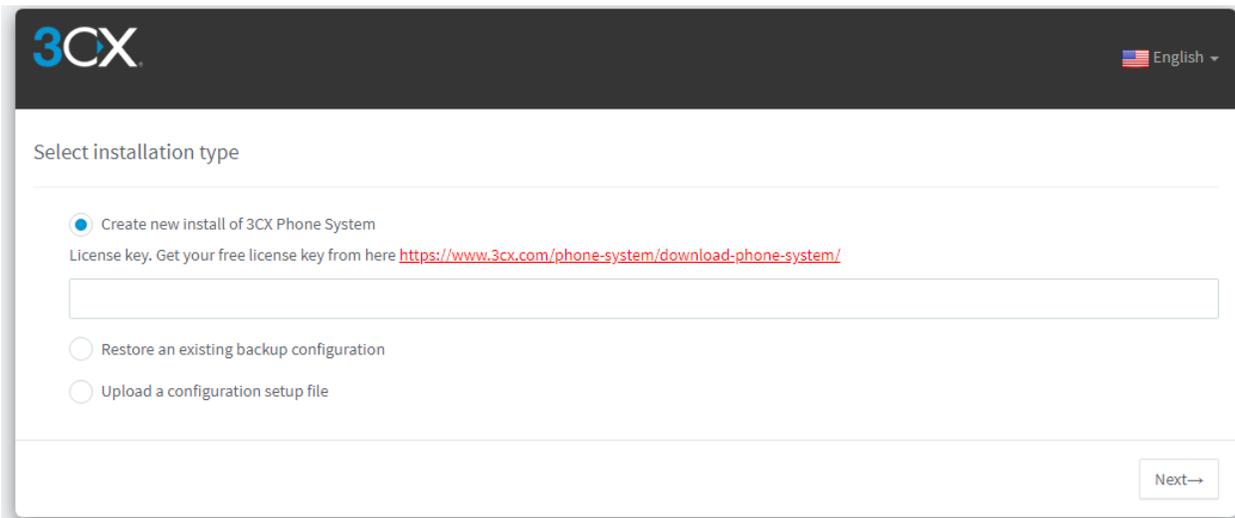
Fill in the form and you will receive an email with your license key details and deployment options (cloud or on-premise).

☑ Company   ☐ Individual

████████	████████
test company	🇺🇸 United States
Telephone: +1 ████████	████████
████@quest█	0-25

Check your email (including your spam folder) to verify your email address.

✓ Self host – on YOUR cloud account   ✓ Zero admin with automated admin tasks   ✓ Smartphone Apps & Web Conferencing

✓ On-premise: on Windows or Linux   ✓ Bulletproof security   ✓ Free for up to 25 extensions, forever

3CX Install with IP Auth SIP Trunk for QuestBlue

Follow the prompts below to finish your 3CX setup

3CX Install with IP Auth SIP Trunk for QuestBlue

Check to see if your IP address is Static or Dynamic before making a selection

3CX Install with IP Auth SIP Trunk for QuestBlue

3CX
🇺🇸 English ▾

Extension Length

Select how many digits your extensions should have. Default is 3 Digits. Note that the system reserves 30 numbers for system extension. This cannot be changed later.

- ○ 2 Digits (00-99)
- ● 3 Digits (000-999)
- ○ 4 Digits (0000-9999)
- ○ 5 Digits (00000-99999)

←Prev   Next→

3CX
🇺🇸 English ▾

Admin Email:

Enter an Email for important system notifications such as updates, service failures, hacking attempts, network errors, emergencies and other diagnostics.

sample@sample.com

←Prev   Next→

3CX
🇺🇸 English ▾

Mail Server Configuration

3CX requires a mail account to send notifications, invites and welcome emails

SMTP Providers:

3CX SMTP server   ⌄

←Prev   Next→

3CX Install with IP Auth SIP Trunk for QuestBlue

3CX | 🇺🇸 English ▾

Select Country and Time Zone

This is important for call reporting, dialling rules, phone configuration, invites and notifications.

Select Country:

| United States (1) | ⌄ |

Set the Time Zone:

| -5:00 United States - Eastern Time | ⌄ |

←Prev   Next→

3CX | 🇺🇸 English ▾

Operator Extension:

Create an Operator Extension which will be the default destination for inbound calls. Also confirm the Voicemail Number that will allow users to retrieve their Voicemail.

Extension Number:

| 100 |

First Name:

| sample |

Last Name:

| name |

Email Address:

| sample@sample.com |

Voicemail Number:

| 999 |

←Prev   Next→

3CX   🇺🇸 English ▾

Countries that calls can be made to

As an additional security measure, specify which countries calls can be made to.

☑ **North America**	⌄
South America	⌄
Europe	⌄
Asia and the Middle East	⌄
Africa	⌄
Australia	⌄
International Networks	⌄

←Prev   Next→

3CX   🇺🇸 English ▾

Select Language

Select in which language you want to play system prompts.

Select Language

| Standard English Prompts Set | ⌄ |

←Prev   Next→

3CX Install with IP Auth SIP Trunk for QuestBlue

Enter the DNS or IP link in your web browser to login to your 3CX

Next, we will create an IP Auth SIP Trunk for QuestBlue:

Navigate to https://customer.questblue.com/sipaccounts/create

3CX Install with IP Auth SIP Trunk for QuestBlue

Navigate back to your 3CX to complete your SIP Trunk Configuration

Fill in the fields below and leave all others blank and click OK above.

Create Outbound Rule for QuestBlue:

Fill in the fields below and click OK

General

Rule Name

QuestBlue

Apply this rule to these calls

Calls to numbers starting with prefix

Calls to numbers starting with prefix

Calls from extension(s)

101   ⟵ **Specify Extensions calls are being made from**

Calls to Numbers with a length of

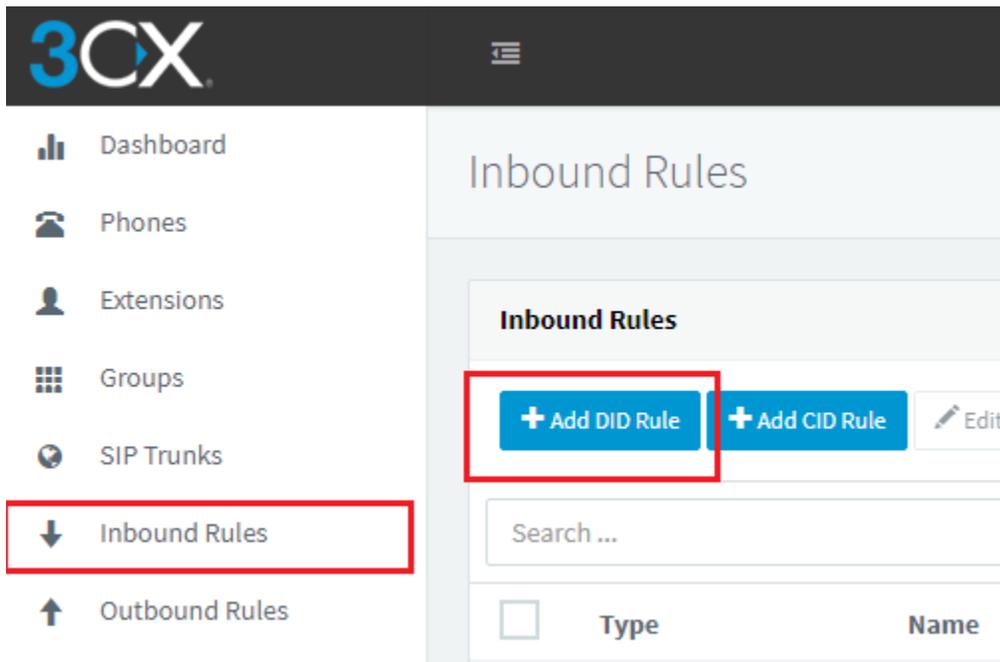Calls to Numbers with a length of

Calls from extension group(s)

+ Add

Make outbound calls on

Configure up to 5 backup routes for outgoing calls. Each route can be configured differently

			Strip Digits	Prepend
Route	1	QuestBlue	0	1
Route	2	QuestBlue	1	
Route	3	BLOCK CALLS	0	

Creating an Inbound Route

Click on Inbound Routes > Add DID Rule

3CX Install with IP Auth SIP Trunk for QuestBlue

Fill in the following information including the same format for the DID then set the destination for the calls to route and click ok at the top.