WCS-сервер в Amazon EC2

WCS-сервер может быть развернут в Amazon Elastic Compute Cloud (EC2) тремя способами:

- Настройка виртуальной машины и установка WCS с нуля
- Развертывание готового образа WCS из Amazon AWS Marketplace
- Развертывание WCS из образа на AWS Marketplace с дополнительной настройкой
- Известные проблемы

Настройка виртуальной машины и установка WCS с нуля

Этим способом можно воспользоваться, если Вам необходима более тонкая настройка операционной системы, установка дополнительный компонентов и т.п. Запустите виртуальную машину Linux по инструкции от AWS, настройте ее по необходимости, затем установите WCS по краткой или подробной инструкции.

Развертывание готового образа WCS из Amazon AWS Marketplace

1. Откройте страницу Web Call Server на Amazon AWS Marketplace, нажмите Continue to Subscribe:

| | Web Call Server 5 | | | Continue to Subscribe |
|---|---|--|---|---|
| | By: Flashphoner Latest Version: 5.2. | 267 | | Save to List |
| Flashphoner | WebRTC streaming media server design native mobile apps, having SDKs for We | ed for real-time low-latency si b, iOS and Android. WCS uses | creaming in browsers and a wide range of | Typical Total Price \$0.100/hr Total pricing per instance for services |
| | Linux/Unix <u>ጵጵጵጵጵ</u> (0) | BYOL Free Tier | | hosted on c4.large in US East (N. Virginia). View Details |
| Overview | Pricing | Usage | Support | Reviews |
| Product Over Web Call Server is a WebR latency streaming in brows SDKs (Software Developm has a dozen of open source three SDKs with convenier streaming applications as screen sharing, live video to to desktop and mobile bro SIP protocol and can opera Using these features, deve applications such as web-p VoIP integrations for callin processing of VoIP calls on WCS supports RTSP protoco WCS, developers can creat application for low-latency RTSP support. WCS uses a wide range of WebRTC, RTMP, RTMFP, W | TVIEW TC streaming media server designed for resers and native mobile apps. WCS is supple ent Kit) for Web, Android and iOS platform e samples presenting server capabilities. Un the API, developers can create such low-later video chats, live broadcasting, video confe- transcoding, and low-latency audio and vi- wsers on Android and iOS platforms. WCS ate as a WebRTC-SIP gateway or RTMP-SIF dopers can implement own browser-based obone, click-to-call, and various telephony on to external mobile or landline phones of a browsers and mobile apps. col for work with IP cameras and CCTV sys- te a cross-platform WebRTC mobile or bro y video playback from IP cams and media communication technologies and protocoor ebSocket, WebSocket streaming, HLS, RTS Show other | eal-time low- ied with ms. Each SDK Jsing these ency erencing, deo delivery 5 supports 9 gateway. d or mobile r cases and r cases and r cases and web for t stems. Using wser-based servers with Is such as SP, and SIP. 5.2.267 rer versions | ghts RTC streaming with low-latency dcasting, video chats, conference rding, streaming from RTMP live icy streaming to iOS Safari, HLS RTC re-streaming to YouTube Li P-HTML5 streaming from IP can ia servers to browsers and mobi RTC, RTMP and WebSocket stree RTC-SIP gateway and RTMP-SIP wo-way audio and video SIP cal rser or mobile app and standalo ronment | y: web cam cing, stream e encoders, low- 5 streaming, ive neras, CCTV and ile apps using aming technologies 2 gateway features Ils between a one SIP and VoIP |

2. Откроется страница с описанием продукта и почасовой стоимостью в зависимости от выбранной конфигурации сервера. Нажмите Continue to Configuration:



< Product Detail Subscribe

Subscribe to this software

You're subscribed to this software. Please see the terms and pricing details below or click the button above to configure your software.

Continue to Configuration

Terms and Conditions

Flashphoner Offer

You have subscribed to this software and agree that your use of this software is subject to the pricing terms and the seller's End User License Agreement (EULA). Your use of AWS services is subject to the AWS Customer Agreement.

| Product | Effective date | Expiration date | Action | | |
|--|--------------------------------|-------------------------------|---------------------------------------|--|--|
| Web Call Server 5 | 6/23/2016 | N/A | ▲ Hide Details | | |
| The following table shows price of each component. | ing information for the listed | l software components. Ye | ou're charged separately for your use | | |
| Web Call Server 5 BYOL | Additional taxes or t | fees may apply. /er 5 | | | |
| | EC2 Instance Typ | EC2 Instance Type Software/hr | | | |
| | t2.micro | \$0 | ^ | | |
| | t2.small | \$0 | | | |
| | t2.medium | \$0 | | | |
| | | | | | |

3. Откроется страница конфигурации сервера. Выберите регион размещения сервера и нажмите Continue to Launch:

| Web Call Server 5 | Continue to Launch |
|---|---|
| < Product Detail Subscribe <u>Configure</u> | |
| Configure this software | Pricing information |
| Choose a fulfillment option below to select how you wish to deploy the software, then enter the information required to configure the deployment. | This is an estimate of typical software and infrastructure costs based on your configuration. Your actual charges for |
| Fulfillment Option | each statement period may differ from this estimate. |
| 64-bit (x86) Amazon Machine Image (AMI) | Web Call Server 5 \$0/hr BYOL |
| | running on c4.large |
| Software Version | Infrastructure Pricing |
| 5.2.267 (Aug 02, 2019) | Monthly Estimate: \$72.00/month |
| Region US East (N. Virginia) Ami Id: ami-0bcc3eccd8134e445 | |

4. Откроется страница запуска сервера. Выберите тип виртуальной машины, который будет использован для создания экземпляра сервера.

| Web Call Se | erver 5 | |
|---|---|---|
| < Product Detail Subscribe Configure La Launch this software Review your configuration and choose | unch C how you wish to la | aunch the software. |
| Configuration Details Fulfillment Option Software Version Region Usage Instructions | 64-bit (x86) Amazon Web Call Server 5 running on c4.large 5.2.267 US East (N. Virginia) | n Machine Image (AMI) |
| Choose Action Launch from Website | ~ | Choose this action to launch from this website |
| EC2 Instance Type | ~ | Memory: 3.75 GiB CPU: 8 EC2 Compute Units (2 virtual cores with 4.0 Compute Units each) Storage: EBS storage only Network Performance: Moderate |

| 5. Прокру | гите страницу | до настройки | Security | Group | Settings, | нажмите | Create Ne | ew Based | On Seller | Settings: |
|-----------|---------------|--------------|----------|-------|-----------|---------|-----------|----------|-----------|-----------|
|-----------|---------------|--------------|----------|-------|-----------|---------|-----------|----------|-----------|-----------|

| A security secure sets as a firmual th | at an atral a the traffic all arread to reach | · · · · · · · · · · · · · · · · · · · |
|--|---|--|
| A security group acts as a firewall tr | at controls the traffic allowed to reach | Tone or more instances. You can create a new |
| security group based on seller-recor | nmended settings or choose one of yo | ur existing groups. Learn more |
| | | |
| default | • 0 | |
| | | |
| | | |

6. Отобразится страница создания Security Group. Укажите имя группы, описание и нажмите Save.

Create new based on seller settings

A new security group will be generated by AWS Marketplace. It is based on recommended settings for Web Call Server 5 version 5.2.267.

Name your security Group

WCS 5.2

Description

WCS server 5.2

| Connection Method | Protocol | Port Range | Source (IP or Group) |
|---|-------------------------|-------------------------|---|
| SSH | tcp | 22 | Anywhe ~ 0.0.0/0 |
| | tcp | 554 | Anywhe 🖌 0.0.0/0 |
| | udp | 30000-33000 | Anywhe 🖌 0.0.0/0 |
| | tcp | 8080-8084 | Anywhe 🖌 0.0.0/0 |
| | tcp | 8443-8445 | Anywhe 🖌 0.0.0.0/0 |
| | tcp | 8888 | Anywhe 🖌 0.0.0.0/0 |
| | tcp | 9091 | Anywhe 🖌 0.0.0.0/0 |
| | tcp | 1935 | Anywhe 🖌 0.0.0.0/0 |
| | udp | 1935 | Anywhe 🖌 0.0.0.0/0 |
| Rules with source of 0.0.0.0 known IP addresses. | /0 allows all IP addres | ses to access your inst | tance. We recommend limiting access to only |
| | | | Cancel Save |

7. Выберите новую группу в выпадающем списке:

| Security Group Settings | |
|---|---|
| A security group acts as a firewall that control security group based on seller-recommended | s the traffic allowed to reach one or more instances. You can create a new settings or choose one of your existing groups. Learn more |
| WCS 5.2 | ~ <i>C</i> |
| Create New Based On Seller Settings | |

8. Нажмите Launch:



Web Call Server 5

Security Group Settings

A security group acts as a firewall that controls the traffic allowed to reach one or more instances. You can create a new security group based on seller-recommended settings or choose one of your existing groups. Learn more

| WCS 5.2 | |
|--|---|
| Create New Based On Seller Settings | |
| | |
| Key Pair Settings | |
| To ensure that no other person has access to your software | vare, the software installs on an EC2 instance with an EC2 key pair |
| that you created. | |
| test_key_pair | |
| Create a key pair in EC2 🗷 | |
| (Ensure you are in the region you wish to launch your s | oftware) |
| | |
| | Launch |

9. Отобразится сообщение об успешном запуске:

Congratulations! An instance of this software is successfully deployed on EC2! AMI ID: ami-Obcc3eccd8134e445 (View Launch Configuration Details) You can view this instance on EC2 Console. You can also view all instances on Your Software. Software and AWS hourly usage fees apply when the instance is running and will appear on your monthly bill.

10. Нажмите на ссылку EC2 Console. В разделе Instances найдите запущенную виртуальную машину:



11. Откройте в браузере адрес веб-интерфейса запущенного WCS-сервера https://host.amazonaws.com:8888, примите исключение безопасности. В качестве пароля администратора используйте Instance ID запущенной виртуальной машины:

| Flashphoner Web Call Server × + | | | - | | | × |
|---------------------------------|-------------------------------------|------------|---|---|---|---|
| ← → C ▲ Not secure ec2-52-9 | 1-19-223.compute-1.amazonaws.com:88 | 888/admin/ | Q | ☆ | ٢ | : |
| | Please sign in | | | | | |
| | admin | | | | | |
| | | | | | | |
| | Login | | | | | |
| | | | | | | |
| | | | | | | |

12. Проверьте публикацию и воспроизведение WebRTC-потока с веб-камеры на примере Two Way Streaming:



Развертывание WCS из образа на AWS Marketplace с дополнительной настройкой

Готовый образ WCS на AWS Marketplace содержит лишь базовые настройки. Для изменения настроек необходимо зайти по SSH в созданный экземпляр сервера и перезапустить WCS. Для получения готового к работе экземпляра "из коробки" можно указать пользовательский скрипт для изменения настроек при первом запуске сервера. Эта возможность полезна, например, при развертывании группы масштабирования.

1. В EC2 Console перейдите в раздел "Instances - Instances" и нажмите "Launch instance"



2. Выберите образ, указав при поиске "Web Call Server"

| 1. Choose AMI 2. Choose Instan Step 1: Choose an A An AMI is a template that contains | Amazon Mac the software configu | are instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review chine Image (AMI) uration (operating system, application server; and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs. | .d Exit |
|---|------------------------------------|---|--------------------|
| Q, Web Call Server | | | × |
| | | Search by Systems Manager p | parameter |
| Quick Start (0) | | < < 1 to 10 of 55 Products | ; > > |
| My AMIs (0) | | Web Call Server 5 Select | |
| AWS Marketplace (55) | Flashohoner | ★★★★★ (0) 5.853 Previous versions By Flashphoner | _ |
| Arro marketplace (55) | Hashphoner | Starting from \$0.01 to \$31.21hr for software + AWS usage fees | |
| Community AMIs (6) | Free tier eligible | Linu/Uhrix, Amazon Linuz 2018 03 (64-bit (x68) Amazon Machine Image (AMI)) Updatled: 527/20 | |
| | | WebRTC streaming media server designed for real-time low-latency streaming in browsers and native mobile apps, having SDKs for Web, IOS and Android. WCS uses a wide range of communication technologies and protocols such as | |

3. Просмотрите информацию об образе

| | Web Call Server 5 | Pricing Details | | | |
|--|--|-----------------|----------|---------|------------|
| | Web Call Server is a WebRTC streaming media server designed for real-time low-latency streaming in browsers and native mobile apps. WCS is | Hourly Fees | | | |
| Flashphoner | supplied with SDKs (Software Development Kit) for | Instance Type | Software | EC2 | Total |
| | Web, Android and iOS platforms. Each SDK has a | t2.micro | \$0.012 | \$0.013 | \$0.025/hr |
| | capabilities. Using these three SDKs with | t2.small | \$0.023 | \$0.025 | \$0.048/hr |
| | convenient API, | t2.medium | \$0.046 | \$0.05 | \$0.096/hr |
| | More info | t2.large | \$0.093 | \$0.101 | \$0.194/hr |
| | View Additional Details in AWS Marketplace | t2.xlarge | \$0.186 | \$0.202 | \$0.388/hr |
| Product Details | | t2.2xlarge | \$0.371 | \$0.403 | \$0.774/hr |
| | | t3a.micro | \$0.009 | \$0.01 | \$0.019/hr |
| Ву | Flashphoner | t3a.small | \$0.019 | \$0.02 | \$0.039/hr |
| Customer Rating | | t3a.medium | \$0.038 | \$0.041 | \$0.079/hr |
| Latest Version | 5.2.629 | t3a.large | \$0.075 | \$0.082 | \$0.157/hr |
| Base Operating System | Linux/Unix, Amazon Linux 2018.03 | t3a.xlarge | \$0.15 | \$0.163 | \$0.313/hr |
| Delivery Method | 64-bit (x86) Amazon Machine Image (AMI) | t3a.2xlarge | \$0.301 | \$0.326 | \$0.627/hr |
| License Agreement | End User License Agreement | t3.micro | \$0.01 | \$0.011 | \$0.021/hr |
| On Marketplace Since | 11/19/19 | t3.small | \$0.021 | \$0.023 | \$0.044/hr |
| AWS Services Required | EC2, EBS | t3.medium | \$0.042 | \$0.046 | \$0.088/hr |
| Highlights | | t3.large | \$0.083 | \$0.091 | \$0.174/hr |
| | | t3.xlarge | \$0.166 | \$0.182 | \$0.348/hr |
| WebRTC streaming w | ith low-latency: web cam broadcasting, video chats, | 40 Oul | @0.000 | E0.205 | 60 C00/L- |

4. Выберите тип ВМ

| 2. Choose Instance Type 3. Cont | figure Instance 4. Add Storage | e 5. Add Tags 6. Configure | Security Group 7. Review | | | | | | | | |
|--|---|---|---|---|--|--|---|--|--|--|--|
| tep 2: Choose an Instance Type mace EC2 provides a wide selection of Instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources ryour applications. Learn more about instance types and how they can meet your computing needs. Iter by: All instance types Current generation Show/Hide Columns Current selected: 10 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon Earlie's 1.0 micro (Variable ECUE, 1.0/DUE 2.5 CAE, Intel Yeon (Variab | | | | | | | | | | | |
| endor recommends using a c4.large in | stance (or larger) for the best | experience with this product. | | | | | | | | | |
| Family Type vCPUs (i) Memory (GiB) Instance Storage (GB) (i) EBS-Optimized Available (i) Network Performance (i) IPv6 Support (i) | | | | | | | | | | | |
| General purpose | t2.nano | 1 | 0.5 | EBS only | | Low to Moderate | Yes | | | | |
| General purpose | t2.micro Free tier eligible | 1 | 1 | EBS only | - | Low to Moderate | Yes | | | | |
| General purpose | t2.small | 1 | 2 | EBS only | - | Low to Moderate | Yes | | | | |
| General purpose | t2.medium | 2 | 4 | EBS only | - | Low to Moderate | Yes | | | | |
| General purpose | t2.large | 2 | 8 | EBS only | - | Low to Moderate | Yes | | | | |
| General purpose | t2.xlarge | 4 | 16 | EBS only | - | Moderate | Yes | | | | |
| General purpose | t2.2xlarge | 8 | 32 | EBS only | - | Moderate | Yes | | | | |
| General purpose | t3a.nano | 2 | 0.5 | EBS only | Yes | Up to 5 Gigabit | Yes | | | | |
| General purpose | t3a.micro | 2 | 1 | EBS only | Yes | Up to 5 Gigabit | Yes | | | | |
| General purpose | t3a.small | 2 | 2 | EBS only | Yes | Up to 5 Gigabit | Yes | | | | |
| General purpose | t3a.medium | 2 | 4 | EBS only | Yes | Up to 5 Gigabit | Yes | | | | |
| General purpose | t3a.large | 2 | 8 | EBS only | Yes | Up to 5 Gigabit | Yes | | | | |
| 0 | 10-11-11 | | | | | | | | | | |
| | 2. Choose instance Type 3. Control Contro | 2. Choose Instance Type 3. Configure Instance 4. Add Storage Choose an Instance Type Type Type Current generation Showthid Instance types and how they can meet yo Instance types and how they can meet yo Instance types Current generation Showthid Instance types Current generation Showthid Instance types Instance types and how they can meet yo Instance types Instance (or larger) for the best Instance types Iz anno General purpose Iz anno | 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tage 6. Configure 2. Choose and Instance Type Type Type Type Type Torodes a wide settion of instance types optimized to fit different use cases. Instances are virtual storas. Learn more about instance types and how they can meet your computing needs. Iteration of instance types optimized to fit different use cases. Instances are virtual storas. Learn more about instance types and how they can meet your computing needs. Itinstance types Current generation ShowHide Columns Itested: 12 micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only) nor recommends using a c4.large instance (or larger) for the best experience with this product. Family Yppe vCPUs • General purpose 12 micro 1 General purpose 12 medum 2 General purpose 12 medum 2 General purpose 12 alarge 2 General purpose 13 a mail 2 General purpose 13 a medum 2 General purpose 13 a medum 2 | 2. Choose instance Type 3. Configure Instance 4. Add Storage 6. Add Tage 6. Configure Security Oreau 7. Review 2. Choose instance Type 2. Configure Security Oreau 7. Review 7. Review 2. Choose and Instance Type Type Configure Security Oreau 7. Review 1. Instance types Current generation ShowHide Columns ShowHide Columns Instance types Current generation ShowHide Columns Security Oreau Security Oreau Instance types Current generation ShowHide Columns Security Oreau Security Oreau Security Oreau Instance types Current generation ShowHide Columns Security Oreau Memory (SIB) Image: Security Oreau Instance types 12. Indro 1 0.5 Security Oreau Se | 2. Choose Instance Type 3. Configure Instance 4. Add Storage 6. Add Tage 6. Configure Security Group 7. Review 2. Choose In Instance Types 3. Configure Instance Type 6. Configure Security Group 7. Review 2. Choose In Instance Types Current generation ShowHide Columns ShowHide Columns Instance types Current generation ShowHide Columns Memory (GBP) Instance Storage (GB) • Instance types Type VCPUs Memory (GBP) Instance Storage (GB) • General purpose 12.minto 1 0.5 EBS only General purpose 12.minto 1 2 2 2 General purpose 12.minto 1 2 2 2 3 General purpose 12.minto 1 2 2 2 3 3 3 3 3 3 3 3 | 2. Choose Initiance Yue 3. Configure Initiance 4. Add Storage 6. Configure Security Orug 7. Review Choose and Instance Types 3. Configure Initiance 5. Add Type 6. Configure Security Orug 7. Review Choose and Instance Types Current genetics of Instance Storage of Initiance in the cases. Instances are virtual servers that can run applications. They have varying contributions of CPU, memory, storage, and networking capacity and other they can meet your computing needs. Maintance types Current genetics or Maintance types and how they can meet your computing needs. Initiance types Retext Stratuce Maintance types Current genetics or Initiance types and how they can meet your computing needs. Initiance types Initiance types EBS Optimized Available () Memory (GBD) Initiance Storage (GB) () Yes Current genetics or Initiance Storage (GB) () EBS Optimized Available () Initiance Storage (GB) () Initiance Storage (GB) () Initianc | Choose missance Yung O datagemi kindlice A 4dd Biage 6 Add Biage 6 Add Biage 7 Review | | | | |

5. Прокрутите вниз до конца страницу "Configure Instance Details" и вставьте в поле "User data" скрипт обновления и настройки WCS

| 1. Choose AMI 2. Choose Instance Type | 3. Co | nfigure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review | | | | | |
|---------------------------------------|-------|---|----------|--------|----------|-------------------|-------------------|
| Step 3: Configure Instan | ice D | etails | | | | | |
| Advanced Details | | | | | | | - |
| Metadata accessible | | Enabled 4 | | | | | |
| Metadata version | 0 | V1 and V2 (token optional) | | | | | |
| Metadata token response hop limit | 0 | 1 4 | | | | | |
| User data | () | ● As text ○ As file □ Input is already base64 encoded | | | | | |
| | | #I/bin/bash | ^ | | | | |
| | | Stop WCS before reconfiguring T[-n SPID*], then Service webcallserver stop T[-n SPID*], then Service webcallserver stop T UpDATE: then | | | | | |
| | | * COnfiguration setup #CONFIG=rusrilocal/Flashphoner/WebCallServer/confiftashphoner properties JVM_CONFIG=rusrilocal/Flashphoner/WebCallServer/confilwcs-core properties #CDN settings CDN_ROLE-projin | | | | | |
| | | (CDN_IP=0.0.0) (Echo e "indn_ip=\$CDN_IP">> SWCS_CONFIG (Echo e "indn_ip=\$CDN_ROLE">> SWCS_CONFIG (Echo e "indn_nodes_cresolve_ip=fatse">> SWCS_CONFIG Echo e "indn_modes_cresolve_ip=fatse">> SWCS_CONFIG B Request Kendirames from WabDTC - Indihebars gaves 7 seconds | • | | | | |
| | | | | Cancel | Previous | Review and Launch | Next: Add Storage |

Пример скрипта, который обновляет WCS до последней сборки и настраивает Origin сервердля публикации WebRTC и RTMP потоков

Origin setup script

```
#!/bin/bash
# Stop WCS before reconfiguring
PID="$(pgrep -f 'com.flashphoner.server.Server' | grep -v bash)"
if [ -n "$PID" ]; then
    service webcallserver stop
fi
# Update WCS to the latest build (optionally, set to false if you don't)
UPDATE=true
if $UPDATE; then
   cd /tmp
   wget --timeout=10 --no-check-certificate https://flashphoner.com/download-wcs5.2-server.tar.gz -O wcs5-
server.tar.gz
   if [ $? -eq 0 ]; then
       mkdir -p FlashphonerWebCallServer-5.2-latest && tar xzf wcs5-server.tar.gz -C FlashphonerWebCallServer-
5.2-latest --strip-components 1
       cd FlashphonerWebCallServer-5.2-latest
       chmod +x install.sh
       ./install.sh -silent
       cd ..
       rm -rf FlashphonerWebCallServer-5.2-latest wcs5-server.tar.gz
    fi
fi
# Configuration setup
WCS_CONFIG=/usr/local/FlashphonerWebCallServer/conf/flashphoner.properties
JVM_CONFIG=/usr/local/FlashphonerWebCallServer/conf/wcs-core.properties
#CDN settings
CDN_ROLE=origin
CDN_IP=0.0.0.0
echo -e "\ncdn_enabled=true" >> $WCS_CONFIG
echo -e "\ncdn_ip=$CDN_IP" >> $WCS_CONFIG
echo -e "\ncdn_role=$CDN_ROLE" >> $WCS_CONFIG
echo -e "\ncdn_nodes_resolve_ip=false" >> $WCS_CONFIG
# Request keyframes from WebRTC publishers every 5 seconds
echo -e "\nperiodic_fir_request=true" >> $WCS_CONFIG
# Disable RTMP keepalives to publish from OBS
echo -e "\nkeep_alive.enabled=websocket,rtmfp" >> $WCS_CONFIG
# Configure heap settings
HEAP_SIZE=512m
sed -i -e "s/^\(-Xmx\).*\$/\1$HEAP_SIZE/" $JVM_CONFIG
# Start WCS after reconfiguring
PID="$(pgrep -f 'com.flashphoner.server.Server' | grep -v bash)"
if [ -n "$PID" ]; then
   service webcallserver restart
else
    service webcallserver start
fi
# Disable internal firewall, ports are allowed/blocked on security group level
iptables -F
```

6. Настройте группу безопасности. По умолчанию, группа будет создана из настроек образа. При необходимости, добавьте порты.

| 1. Choose AMI | 2. Choose Instance Type 3. | Configure Instance 4. Add Storage | 5. Add Tags 6. Configure Security Group 7. F | Review | | | |
|---|---|---|--|---|--|--|--------|
| Step 6: Co A security group is HTTP and HTTPS | nfigure Security C a set of firewall rules that cor ports. You can create a new | Group trol the traffic for your instance. On th security group or select from an existi | is page, you can add rules to allow specific traffic to allow specific to allow specific to allow specific traffic to allow specific to al | o reach your instance. For example, if you want to set up urify groups. | a web server and allow Internet traffic to reach | n your instance, add rules that allow unrestricted access to | o the |
| | Assign a security group: | Create a new security group | | | | | |
| | | Select an existing security group | | | | | |
| | Security group name: | WCS | | | | | |
| | Description: | This security group was generate | ed by AWS Marketplace and is based on recomn | | | | |
| Туре 🕕 | | Protocol (i) | Port Range (i | Source (i) | | Description (i) | |
| SSH | - | TCP | 22 | Custom | ▼ 0.0.0.0/0 | e.g. SSH for Admin Desktop | ⊗ |
| Custom TCP F | • | TCP | 554 | Custom | ♥ 0.0.0.0/0 | e.g. SSH for Admin Desktop | ⊗ |
| Custom UDP I | • | UDP | 30000 - 33000 | O | ♥ 0.0.0.0/0 | e.g. SSH for Admin Desktop | ⊗ |
| Custom TCP F | • | TCP | 8080 - 8084 | Custom | ♥ 0.0.0.0/0 | e.g. SSH for Admin Desktop | ⊗ |
| Custom TCP F | • | TCP | 8443 - 8445 | Custom | ♥ 0.0.0.0/0 | e.g. SSH for Admin Desktop | ⊗ |
| Custom TCP F | • | TCP | 8888 | Custom | ♥ 0.0.0.0/0 | e.g. SSH for Admin Desktop | ⊗ |
| Custom TCP F | • | TCP | 9091 | Custom | ♥ 0.0.0.0/0 | e.g. SSH for Admin Desktop | ⊗ |
| Custom TCP F | • | TCP | 1935 | Custom | ♥ 0.0.0.0/0 | e.g. SSH for Admin Desktop | ⊗ |
| Custom UDP I | • | UDP | 1935 | Custom | ♥ 0.0.0.0/0 | e.g. SSH for Admin Desktop | ⊗ |
| Add Rule | | | | | | | |
| A Warn Rules | ing with source of 0.0.0.0/0 allow | all IP addresses to access your instal | ice. We recommend setting security group rules to | allow access from known IP addresses only. | | | |
| | | | | | | | |
| | | | | | | Cancel Previous Review and | Launch |

7. Нажмите "Review and Launch". Если в параметрах нет ошибок, нажмите "Launch"

| 1. Choose AMI | 2. Choose Inst | ance Type 3 | . Configure Instance | 4. Add Storage | 5. Add Tags | 6. Configure Security Group | 7. Review | | | | | |
|------------------------------|--|---|---|---|--|--|-------------------|------------------------------|-------------------------|--------|----------|--------|
| Step 7: R • AMI Deta | eview Ins | stance La | lunch | | | | | | | | | |
| Fleshphoner | Web Call Serv Root Device Type: e | ver 5 abs Virtualization | n type: hvm | | | | | | | | | |
| | Hourly Softwar Software charge By launching th End User Licen | re Fees: \$0.01 es will begin on is product, you use Agreement | 2 per hour on t2.r ice you launch thi will be subscribe | nicro instance. Addit is AMI and continue d to this software an | ional taxes or fi until you termin d agree that yo | iees may apply. hate the Instance. our use of this software is subje | ct to the pricing | terms and the seller's | | | | |
| ▼ Instance | Туре | | | | | | | | | | | |
| Instance | Туре | ECUs | vCPUs | Memory (GiB) | Instan | ce Storage (GB) | EBS-Optimize | ed Available | Network Performance | | | |
| t2.micro | | Variable | 1 | 1 | EBS or | nly | - | | Low to Moderate | | | |
| Security | Groups | | | | | | | | | | | |
| Security g Descriptio | roup name n | WCS This secu | rity group was ge | enerated by AWS Ma | rketplace and i | is based on recommended set | ings for Web Ca | all Server 5 version 5.2.629 | provided by Flashphoner | | | |
| Туре 🕕 | | | Protocol (j) | | Port Ran | ige (j) | Source (i) | | Description (j) | | | |
| SSH | | | TCP | | 22 | | 0.0.0.0/0 | | | | | |
| Custom T | CP Rule | | TCP | | 554 | | 0.0.0/0 | | | | | |
| Custom U | JDP Rule | | UDP | | 30000 - 3 | 33000 | 0.0.0/0 | | | | | |
| Custom T | CP Rule | | TCP | | 8080 - 80 | 084 | 0.0.0/0 | | | | | |
| Custom T | CP Rule | | TCP | | 8443 - 84 | 445 | 0.0.0.0/0 | | | | | |
| Custom T | CP Rule | | TCP | | 8888 | | 0.0.0/0 | | | | | |
| Custom T | CP Rule | | TCP | | 9091 | | 0.0.0/0 | | | | | |
| 4 | | | | | | | | | | | | + |
| | | | | | | | | | | Cancel | Previous | Launch |

Будет запущен экземпляр сервера.

| Launch Instance | Connect Actio | ons 👻 | | | | | | | | | ∆ ∂ | ¢ 0 |
|----------------------|-----------------------------|-----------------|---------------------|------------------|-----------------|--------------|---|---------------------------|-------------|------------------------------|------------|--------------|
| Q Filter by tags and | attributes or search by key | word | | | | | | | | e k < | 1 to 2 of | 2 > > |
| Name | Instance ID | Instance Type 👻 | Availability Zone 👻 | Instance State 👻 | Status Checks 👻 | Alarm Status | Public DNS (IPv4) | ✓ IPv | 4 Public IP | IPv6 IPs | * | Key Name |
| | i-015bef2f082023811 | t2.micro | eu-west-1a | 🥚 terminated | | None | 8 | - | | - | | test_userdat |
| | i-0f2d75e04cd193fbe | t2.micro | eu-west-1a | running | 2/2 checks | None | ec2-54-194-242-44.eu-west-1.compute.amazonaws.com | n 54.1 | 194.242.44 | - | | test_userdat |
| | | | | | | | | | | | | |

8. Откройте веб интерфейс сервера, опубликуйте поток в примере Two Way Streaming и проиграйте его



Известные проблемы

1. При переходе к Amazon Linux 2 AMI в качестве базового образа, для управления сервисами используется systemd

Симптомы: команда

sudo service webcallserver start

возвращает

```
Redirecting to /bin/systemctl start webcallserver.service
```

команда

sudo service webcallserver check_update

не работает

Решение:

а) для запуска, остановки, перезапуска использовать systemctl

```
sudo systemctl start webcallserver
sudo systemctl stop webcallserver
sudo systemctl restart webcallserver
```



cd /usr/local/FlashphonerWebCallServer/bin
sudo ./webcallserver check_update
sudo ./webcallserver update