

Yealink | 股票代码 300628

YMS Technical Training

- VCS SE Team



PART A

- **Hardware Preparation**
- **License Introduction**
- **Resource Consumption**
- **Network Requirement**
- **Port Requirement**

PART B

- **Installation of standalone and cluster server**
- **Network deployment**
- **Basic configurations**
- **Advanced feature**
- **How to do troubleshooting**

PART A

Basic Requirements of the Hardware

YMS Virtualization Deployment Basic Requirements (General Table)	
System	Centos7.5 or later
RAM	24GB and above, 64GB recommended
The amount of CPU core	12 cores and above, 32 cores recommended
Disk	1TB
Network Interface Card	Gigabit Ethernet

- Basic requirements are same for physical deployment as well, for calculation concurrent capacity, please find the formula below.

Disk			
	Path	Minimum requirement (G)	
Stand-alone deployment	/	256	
	/home	300	
	/usr/local	150	
	/var	50	
	total	756	
Cluster deployment	Master node	/	256
		/home	300
		/usr/local	150
		/var	50
		total	756
	Business node	/	256
		/home	50
		/usr/local	100
		/var	50
		total	456

Concurrent Capability Calculation

For virtual platform, you can refer as below:

Concurrent capacity of 720p = total number of Vcores * frequency * 0.5

Concurrent capacity of 1080p = total number of Vcores * frequency * 0.25

For physical server, you can refer as below:

Concurrent capacity of 720p = total number of cores * frequency * 1.0

Concurrent capacity of 1080p = total number of cores * frequency * 0.5

Hardware Recommendation for Virtual Platform

CPU Model	Clock Speed	Total Number of Vcores	RAM	Concurrent Capacity (the video + the shared content + SRTP)	
				(720p30fps+1080p5fps+SRTP)	(1080p30fps+1080p5fps+SRTP)
Xeon(R) Platinum 8163 CPU	2.5GHZ	12	24G	18	9
Intel(R) Xeon(R) CPU E5-2666 v3	2.9GHZ	10	20G	17	8
Intel(R) Xeon(R) Gold 6149 CPU	3.1GHZ	10	20G	18	6
Xeon(R) Platinum 8163 CPU	2.5GHZ	24	48G	36	18
Intel(R) Xeon(R) CPU E5-2666 v3	2.9GHZ	20	40G	34	17
Intel(R) Xeon(R) Gold 6149 CPU	3.1GHZ	20	40G	37	18
Intel(R) Xeon(R) CPU E5-2666 v3	2.9GHZ	32	64G	55	27
Intel(R) Xeon(R) Gold 6149 CPU	3.1GHZ	32	64G	59	29
Intel(R) Xeon(R) CPU E5-2666 v3	2.9GHZ	40	80G	69	34
Intel(R) Xeon(R) Gold 6149 CPU	3.1GHZ	40	80G	74	37
Intel(R) Xeon(R) Gold 6149 CPU	3.1GHZ	48	96G	89	44
Intel(R) Xeon(R) CPU E5-2666 v3	2.9GHZ	64	128G	111	55
Intel(R) Xeon(R) Gold 6149 CPU	3.1GHZ	64	128G	119	59
Intel(R) Xeon(R) Gold 6149 CPU	3.1GHZ	32	64G	59	29
Intel(R) Xeon(R) Gold 6149 CPU	3.1GHZ	32	64G	59	29
Intel(R) Xeon(R) CPU E5-2666 v3	2.9GHZ	40	80G	69	34
Intel(R) Xeon(R) Gold 6149 CPU	3.1GHZ	40	80G	74	37

- Each Vcore should be assigned with 2GB RAM
- The Vcores assigned to YMS cannot be occupied by other services, otherwise it may not reach the expected capability.

Hardware Recommendation for Dedicated Server

CPU Model	Clock Speed	Total Number of CPUs	Total Number of Cores	RAM	Concurrent Capacity (the video + the shared content + SRTP)	
					(720p30fps+1080p5fps+SRTP)	(1080p30fps+1080p5fps+SRTP)
					E5-2620 v3	2.4GHz
E5-2620 v3	2.4GHz	2	12	8*8G (2133MHz)	34	16
E5-2620 v4	2.1GHz	1	8	4*8G (2400MHz)	20	10
E5-2620 v4	2.1GHz	2	16	8*8G (2400MHz)	40	20
E5-2660 v3	2.6GHz	1	10	4*8G (2133MHz)	31	15
E5-2660 v3	2.6GHz	2	20	8*8G (2133MHz)	62	31
E5-2680 v4	2.4GHz	1	14	4*8G (2400MHz)	40	20
E5-2680 v4	2.4GHz	2	28	8*8G (2400MHz)	80	40
E5-2695 v4	2.1GHz	2	36	8*8G (2400MHz)	92	46
E5-2699 V4	2.2GHz	2	44	8*8G (2400MHz)	116	58

- Each E5 CPU should be assigned with 4 slots of RAM
- The RAM should be installed as 8G each, E5 V3 RAM frequency 2133MHz E5 V4 RAM frequency 2400MHz

CPU Model	Clock Speed	Total Number of CPUs	Total Number of Cores	RAM	Concurrent Capacity (the video + the shared content + SRTP)	
					(720p30fps+1080p30fps+SRTP)	(1080p30fps+1080p30fps+SRTP)
					Intel Xeon Silver 4114	2.2GHz
Intel Xeon Silver 4114	2.2GHz	2	20	12*8G (2400MHz)	50	25
Intel Xeon Silver 4116	2.1GHz	1	12	6*8G (2400MHz)	30	15
Intel Xeon Silver 4116	2.1GHz	2	24	12*8G (2400MHz)	60	30
Intel Xeon Gold 6132	2.6GHz	1	14	6*8G (2666MHz)	40	20
Intel Xeon Gold 6132	2.6GHz	2	28	12*8G (2666MHz)	80	40
Intel Xeon Gold 6152	2.1GHz	1	22	6*8G (2666MHz)	50	25
Intel Xeon Gold 6152	2.1GHz	2	44	12*8G (2666MHz)	100	50

- Each Silver/Gold CPU should be assigned with 6 slots of RAM
- The RAM should be installed as 8G each, Silver RAM frequency 2400MHz Gold RAM frequency 2666MHz

License Introduction

Video Port

Broadcast Port

Recording Port

VOD Port

Live Port

Teams Port

RTSP Port

License

Check

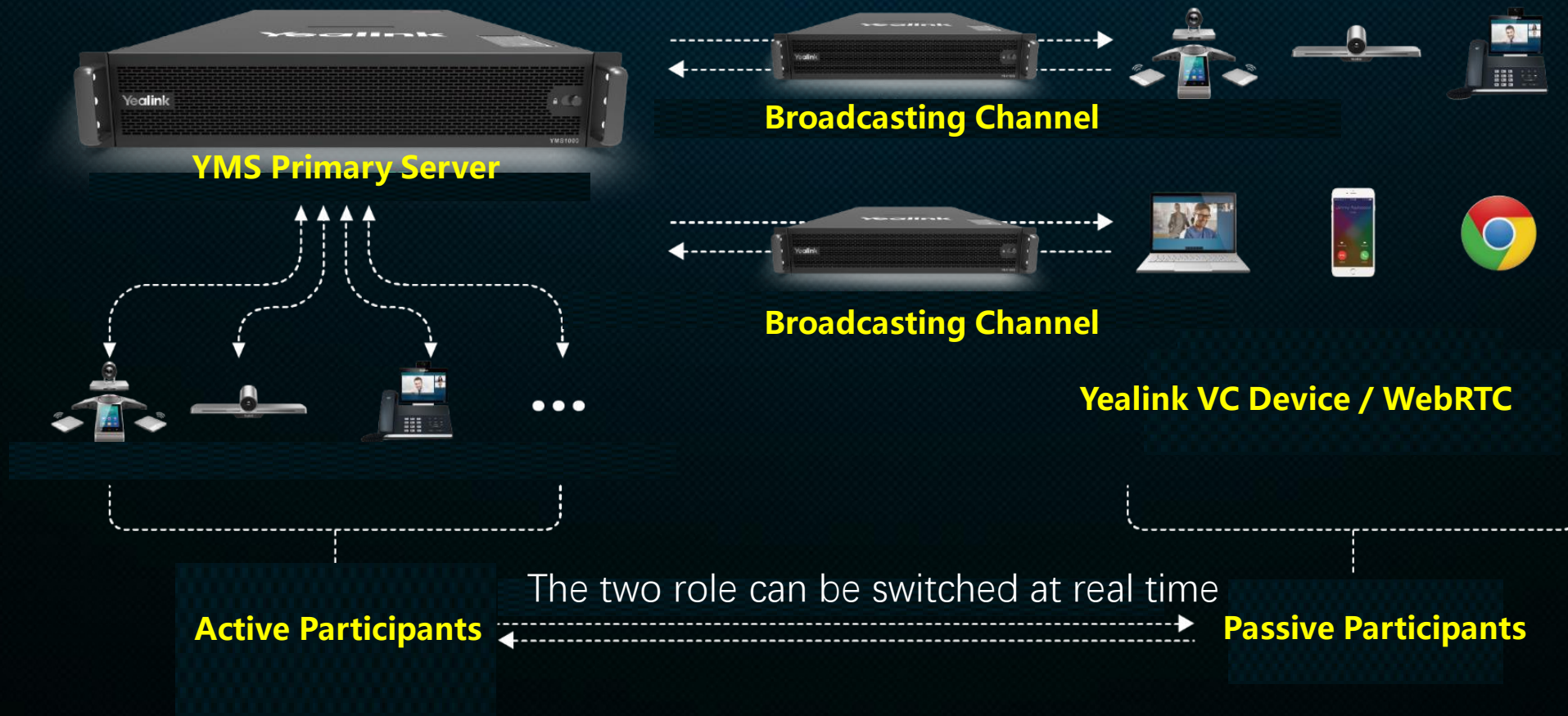
Video Port	Broadcast Port	Recording Port	VOD Port	Live Port	Teams port:
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Port capacity: 20
Valid until: 2020/01/08

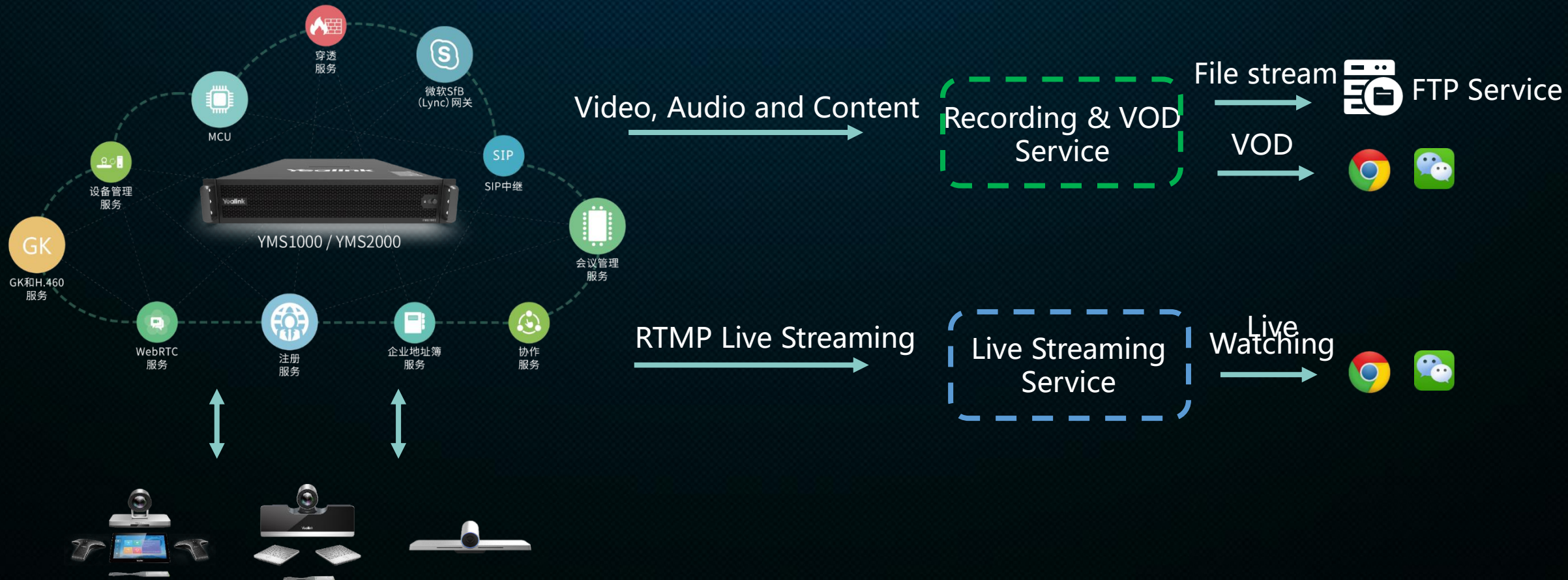
Used: 0
Available: 20

0%
Used

License Introduction – Broadcasting

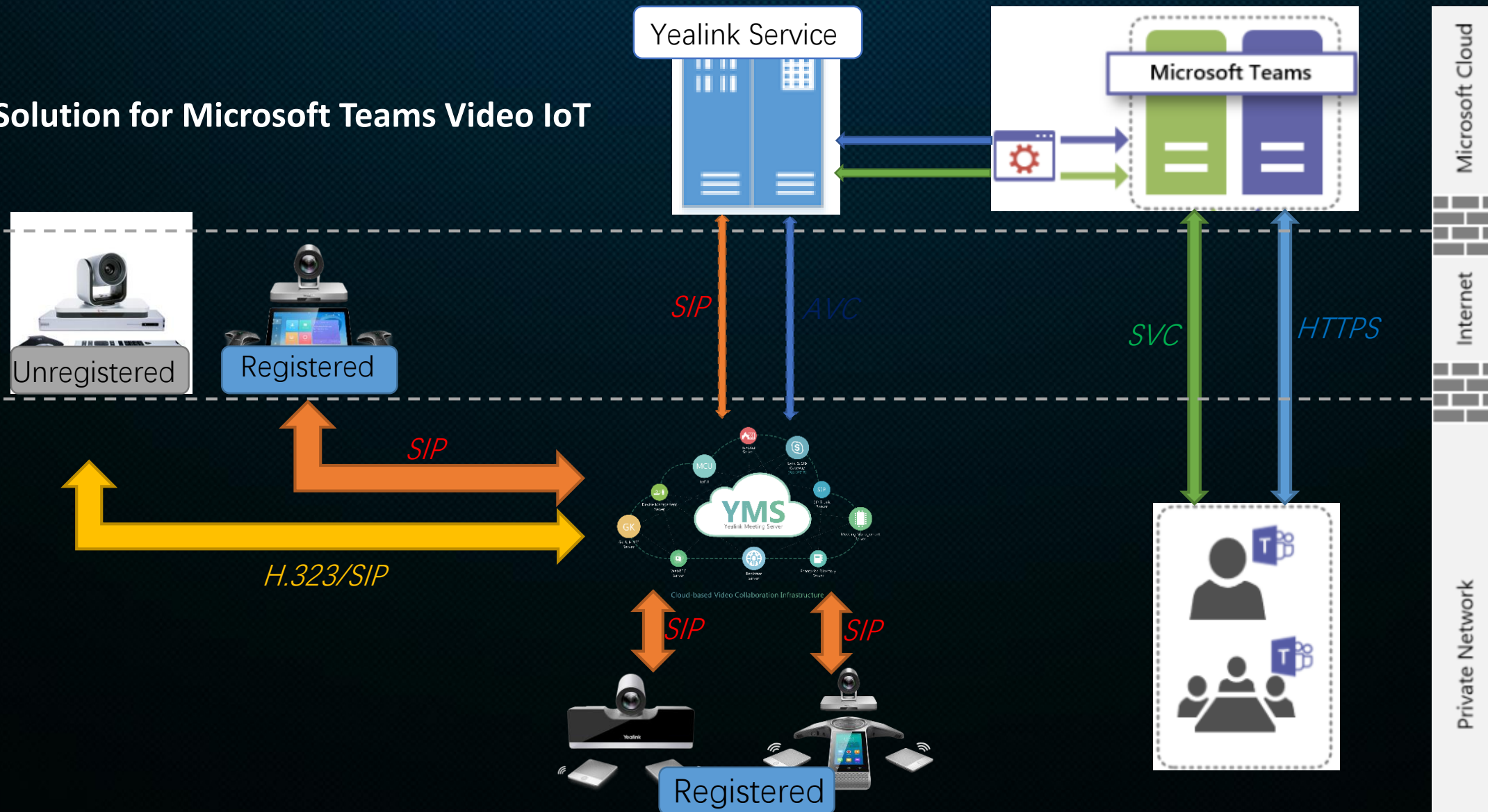


License Introduction – Recording and Live Streaming

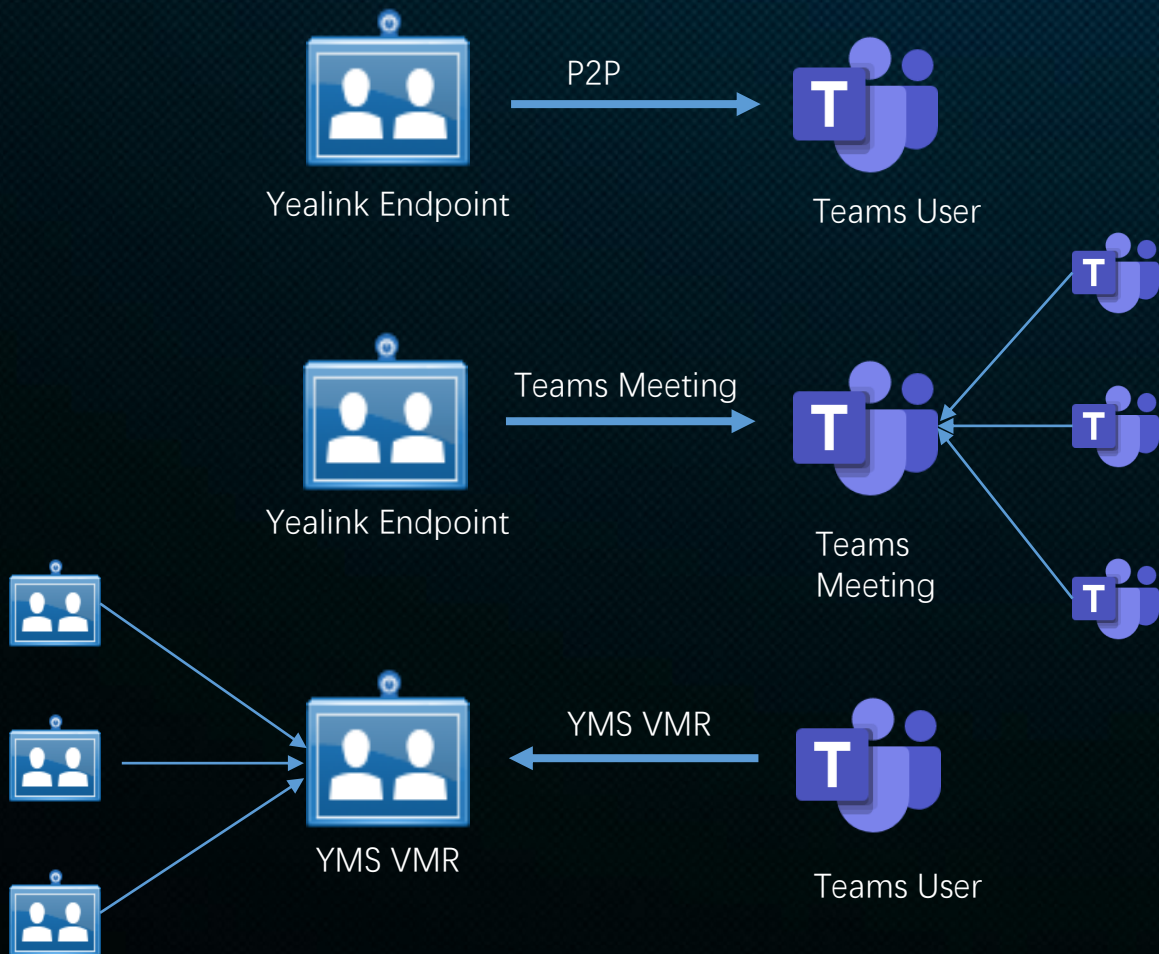


License Introduction – Teams Gateway

CVI Solution for Microsoft Teams Video IoT



License Introduction – Teams Gateway



Call Process:

1、 P2P

- Registered YMS endpoint call Teams user

2、 YMS endpoint join Teams Meeting

- Registered YMS endpoint call Teams meeting ID directly

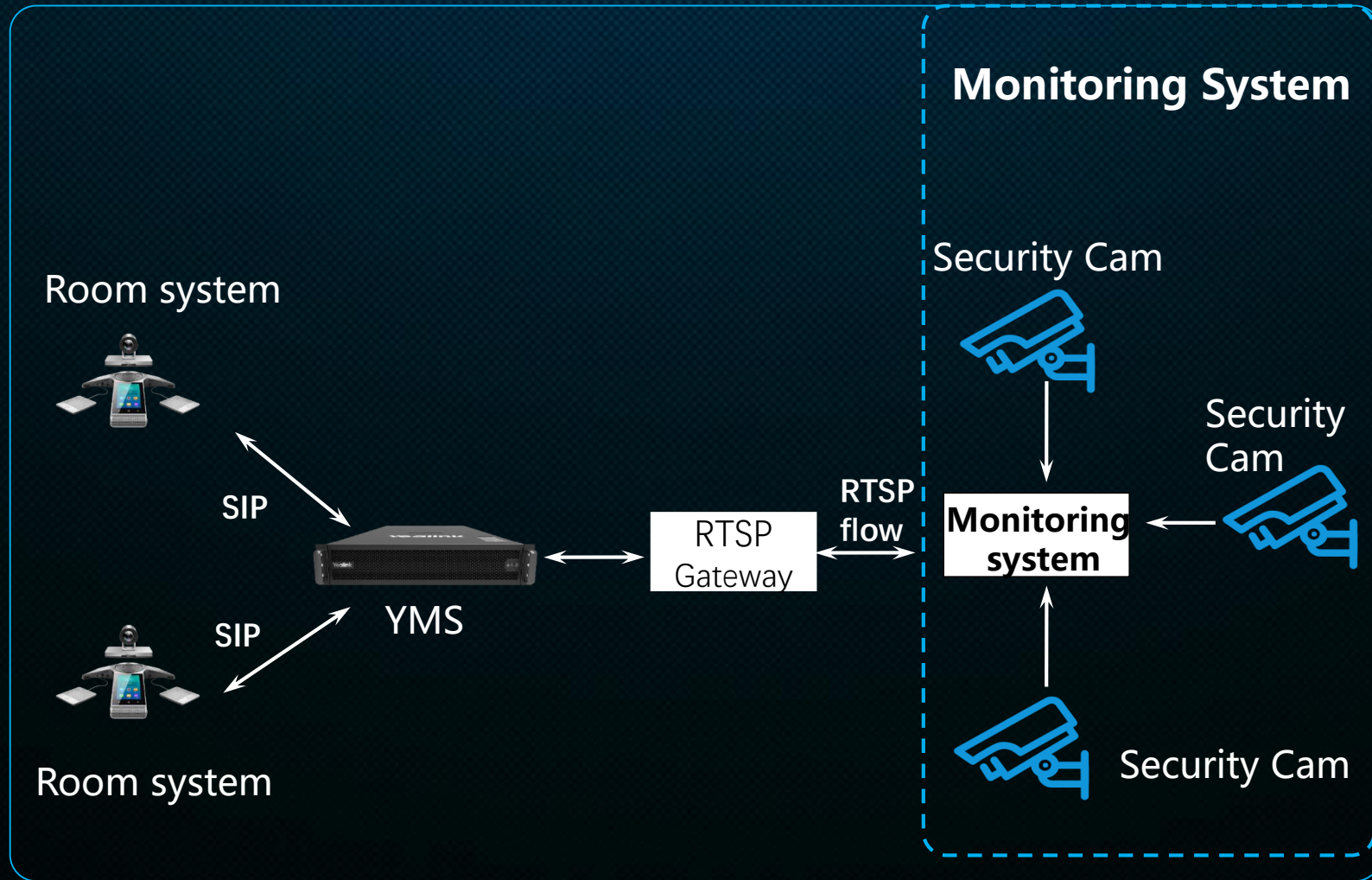
- Unregistered endpoint call through URI IP:

conferenceid@teams.yealink.com

3、 Teams user join YMS VMR

- YMS invite Teams users

License Introduction – RTSP Gateway



Resource Consumption

License	Scenarios	Resource Consumption (Take 1 720p concurrent as reference)	Port Consumption
Video	Participant in a multipoint conference 360p	0.5	1 Video port
	Participant in a multipoint conference 720p	1	1 Video port
	Participant in a multipoint conference 1080p	2	1 Video port
Broadcasting	In a broadcasting interactive conference, when the broadcasting is started	2	2 Video port
	Passive participant in a broadcasting interactive conference 720p	Video : Broadcast=1:5	1 Broadcasting port
Recording	Record a 720p conference	2	1 Recording port
VOD	User watch the recording video on demand	N/A	1 VOD port
Live streaming	One Third Party RTMP stream(Youtube)/720p	1	1 Video port
	When a YMS live streaming is started	2	2 Video port
	Viewer watch the YMS live streaming/720p	Video : Streaming=1:150	1 Live port
Teams gateway	YMS connect with one Teams user/meeting	Depends	1 Teams port
RTSP gateway	One RTSP stream	2	1 Video port 1 RTSP port

Network Requirement

Item		Requirements
Bandwidth	1080P60fps (1920x1080)	4Mb
	1080P60fps (1920x1080) video 1080P30fps (1920x1080) content	6Mb
	1080P30fps (1920x1080)	1.7Mb
	1080P30fps (1920x1080) Video + Content	3.4Mb
	720P30fps (1280x720)	700Kb
	720P30fps (1280x720) Video + Content	1.5Mb
Delay		The general delay of the video conference should be less than 200ms
Jitter		Less than 50ms
Packet Loss		Less than 1%

Port Requirement for Internal Service

Port	Protocol	Description
8000-10000	UDP+TCP	The port for the internal service.
27017	UDP+TCP	The port for accessing the database.
22	TCP	Install or upgrade the server via SSH.

Make sure that the above ports in every node of the cluster can communicate with each other

Port Requirement for External Service

Module	Port	Protocol	Description
Web port	443	TCP	HTTPS port
	444	TCP	The port that can be accessed by Yealink devices via HTTPS
	80	TCP	HTTP port
Rsyslog log service port	514	UDP/TCP	YMS uses this port for collating the device logs
H.323 port	1719	UDP	RAS listening port of the GK.
	1722	TCP	H.225 listening port of the GK
	20000-23999	TCP	GK Q.931/H.245
	20000-29999	UDP	Media proxy port of GK
	1720	TCP	H.225 listening port of the Gateway
	27000-29999	TCP	Gateway Q.931/H.245
Turnserver port	3478	UDP/TCP	The listening port of the traversal service
	3479	UDP/TCP	Backup listening port
	9688	TCP	As long as the IP address exists, this port should be mapped, because it might influence the traversal service
	40000-49999	UDP/TCP	Relay port

Port Requirement for External Service

Module	Port	Protocol	Description
SIP port	5061	UDP/TCP/ TLS	Redirection service and registration service
	5060	UDP/TCP	IP call service
	5062	TLS	
	5063	UDP/TCP	Third-Party registration service
	5065	UDP/TCP	PSTN gateway service
	5066	UDP/TCP	Peer trunk service
	5065	UDP/TCP	REG trunk service
	5067	UDP/TCP/ TLS	Skype for Business service
MCU service port	50000-54999	UDP	Interactive media service
	63000-63999	UDP	Collaboration service
	55000-59999	UDP	Broadcast media service
	60000-60899	UDP	RTMP media service
	61000-62999	UDP	SfB gateway media service
	64000-64999	UDP	Media bypass service
IVR port	10000-10999	UDP	IVR

Port Requirement for External Service

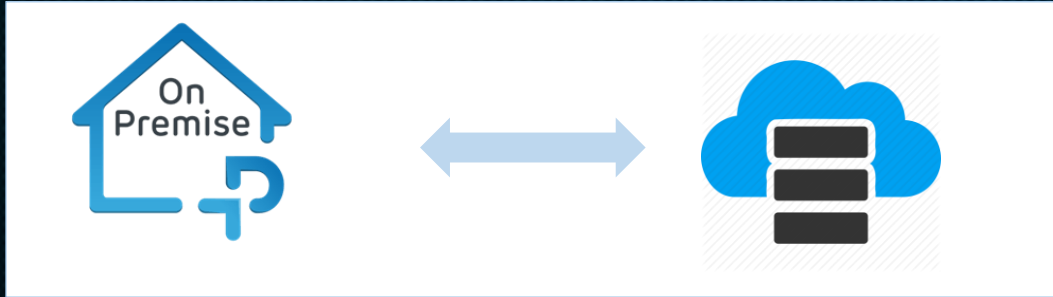
Module	Port	Protocol	Description
The stack-signaling port of the conference	13000-13199	UDP	Conference stack
The stack-media port of the conference	13200-13399	UDP	Conference stack
Recording service port	65000-65499	UDP	Recording service
RTMP live service port	60900-60999	UDP	RTMP live service
BFCP/FECC port	11000-12999	UDP	BFCP/FECC

PART B

PART B

- **Installation of Standalone and Cluster Server**
- **Network Deployment**
- **Basic Configuration**
- **Advanced Feature**
- **Troubleshooting**

YMS Installation



- YMS can be deployed in a dedicated hardware server.



- YMS can be deployed at virtualization platform



- YMS can be deployed at PAAS

Standalone Installation – Dedicated Hardware Server

1. Install CentOS 7.5 on the server
2. Download YMS installation package
3. Put the installation package in the directory /usr/local of CenOS
4. Use SecureCRT or any other SSH tool to log into CentOS and run the following command:

```
cd /usr/local                #go to the directory where the installation package is in#  
tar xzf YMS_x.x.x.x.tar.gz  #unzip the installation package#  
cd apollo_install          #go to the installation directory#  
tar xzf install.tar.gz     #unzip the installation script#  
./install.sh
```

5. Enter A to select the stand-alone installation, usually it takes 10 min to finish the installation.

The installation succeeds if the page displays the following part:

```
PLAY RECAP *****  
manager-master      : ok=1249  changed=582  unreachable=0    failed=0
```


Standalone Installation – ESXi Environment

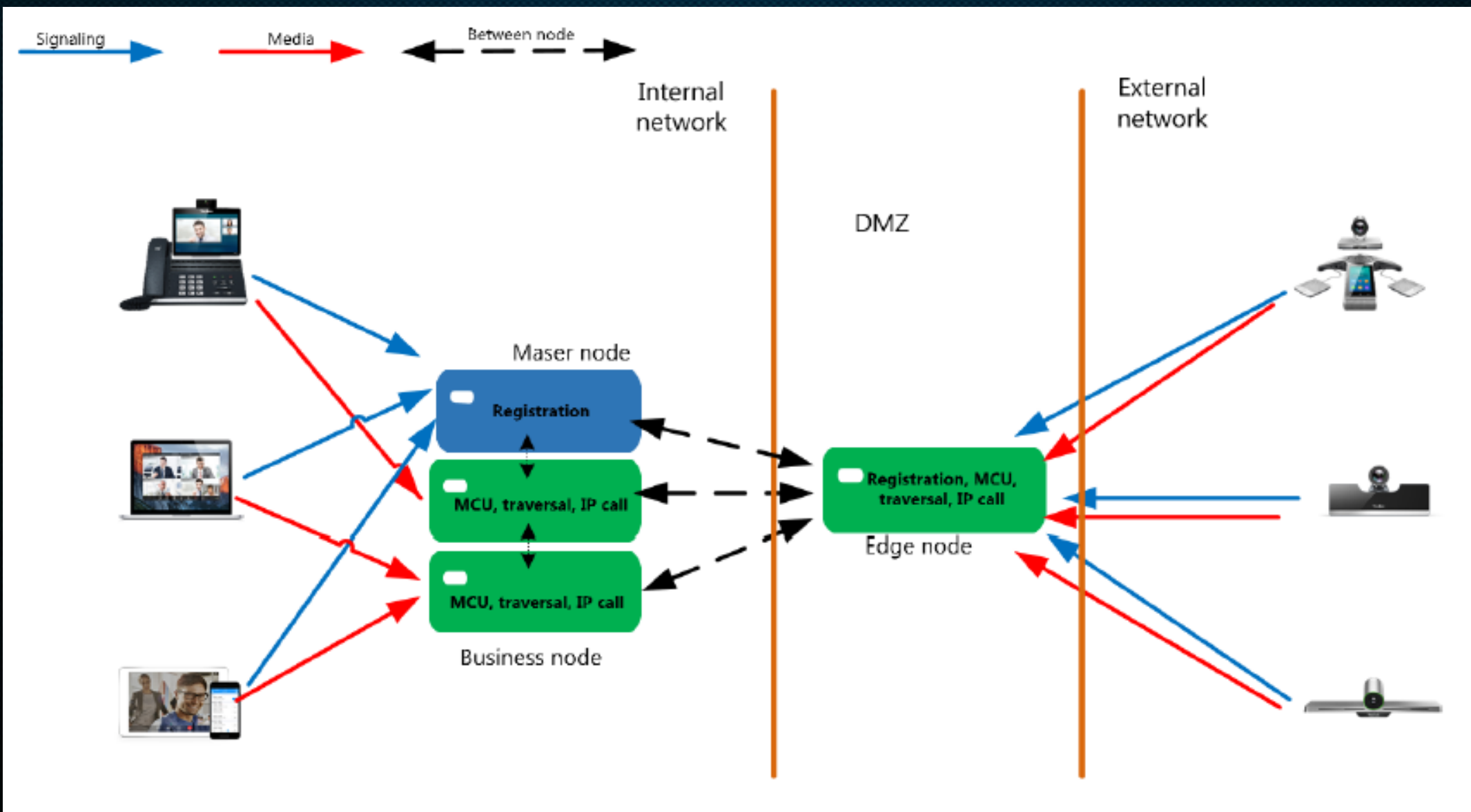
This is applicable when you have one of follow environment

VMware ESXi 6.5 or later

Microsoft Hyper-V Server 2012 or later

1. Create a virtual machine.
2. Select Deploy a virtual machine from an OVF or OVA file.
3. Upload the OVF and VMDK file or OVA file
4. Select the default destination data store for the virtual machine
5. Select VM Network from the drop-down menu of VM Network, and then select Thin in the Disk provisioning field.
6. Click next and finish

Distributed Architecture



Features of Distributed Architecture

Load Balance

- ✓ Ability to realize the load balance among the service nodes in the cluster. The same conferences will select the same MCU server with priority to reduce consumption, and different conferences will select the MCU server whose load is the smallest with priority.

Redundancy

- ✓ With the feature of hot-standby failover, if one server does not work, the whole service can still work without any interruption. Because when a service node cannot work, other service nodes in the cluster will take over its service automatically within 20 seconds. It is seamless to the conference participants.

Scalability

- ✓ YMS allows you to scale up your service nodes based on your demand and supports a large number of concurrent videos.

Components of Distributed Architecture

Master node

- ✓ It mainly provides the server based service, for example, the data center, the discovery service, and the business data. Due to the service attributes, you cannot configure these services via the web interface. You need to configure the master node when the first time you deploy it and you can only run the related command line to expand.

Business node

- ✓ Those nodes mainly provide services, for example, SIP service, H.323 service, and MCU service. You can configure and add business nodes via the web interface. You can also enable and disable these services via the web interface. Especially for the MCU service that calls for higher hardware performance, you can add nodes.
- ✓ You can deploy one or three master nodes. For one master node, when it does not work, the services are unavailable. For three master nodes, when one server fails, the other two servers can still provide services. There is no limit to the business node, and you can deploy as many as you need.

Cluster Installation

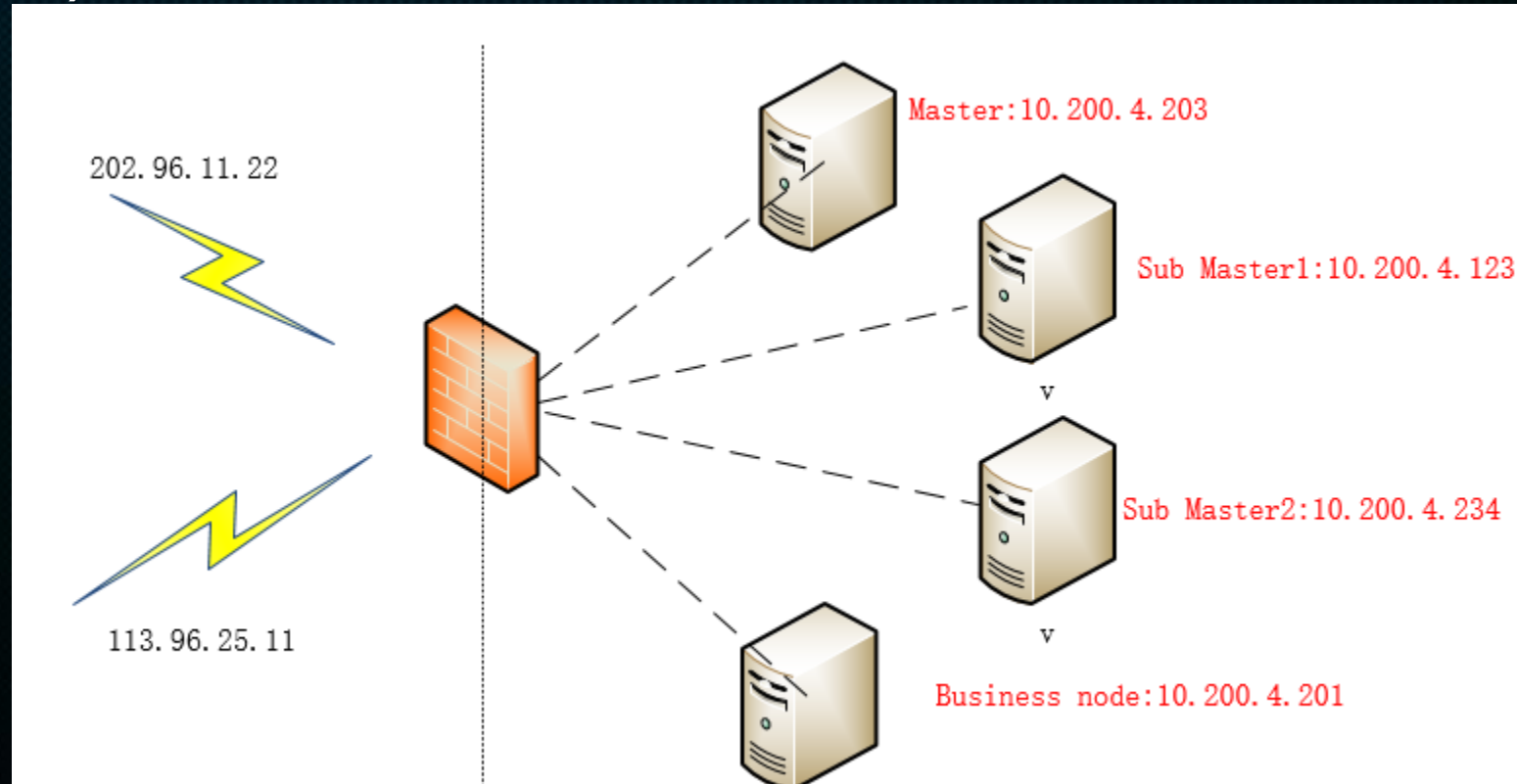
Cluster Module:

- 1 Master nodes + Multiple business Nodes
- 3 Master nodes + Multiple business Nodes

Example 3+1(3 master nodes and 1 business node)

1. Prepare 4 centos system (centos > 7.5)
2. Upload the package to /usr/local
3. Extract the package:

```
$ tar xzf YMS_x.x.x.x.tar.gz  
$ cd apollo_install  
$ tar xzf install.tar.gz  
$ ./install.sh
```



Cluster Installation

```
YEALINK APOLLO

已加载插件: fastestmirror, langpacks
正在检查 /usr/local/apollo/ansible/rpm/libtomcrypt-1.17-26.el7.x86_64.rpm: libtomcrypt-1.17-26.el7.x86_64
/usr/local/apollo/ansible/rpm/libtomcrypt-1.17-26.el7.x86_64.rpm: 不更新已安装的软件包。
正在检查 /usr/local/apollo/ansible/rpm/libtommath-0.42.0-6.el7.x86_64.rpm: libtommath-0.42.0-6.el7.x86_64
/usr/local/apollo/ansible/rpm/libtommath-0.42.0-6.el7.x86_64.rpm: 不更新已安装的软件包。
正在检查 /usr/local/apollo/ansible/rpm/libyaml-0.1.4-11.el7_0.x86_64.rpm: libyaml-0.1.4-11.el7_0.x86_64
/usr/local/apollo/ansible/rpm/libyaml-0.1.4-11.el7_0.x86_64.rpm: 不更新已安装的软件包。
正在检查 /usr/local/apollo/ansible/rpm/sshpass-1.06-2.el7.x86_64.rpm: sshpass-1.06-2.el7.x86_64
/usr/local/apollo/ansible/rpm/sshpass-1.06-2.el7.x86_64.rpm: 不更新已安装的软件包。
无须任何处理

+-----+
| default profile /usr/local/apollo/data/install.conf does not exist. |
| please make a choice: |
| !!! timeout 30 seconds, timeout default is [A]. |
| [A]. Deploy allinone with default 127.0.0.1 |
| [B]. Create default profile and then exit to edit it |
+-----+

Please Input your choice: B
```

4. Choose B, enter cluster version installation (If you do not select within 30 seconds, the system will select the stand-alone installation automatically).

Cluster Installation – Edit the Configuration File

Example 3+1 (3 master nodes and 1 business node)

5. According to the prompts, input:
cd /usr/local/apollo/data/ enter the data folder, and input:

```
$vi install.conf      # open configuration file,  
$a                   # starts editing the configuration file  
$Esc                  # is finished  
$:wq                  # exit file after saving
```

```
[global]  
ansible_ssh_user = root  
# ansible_ssh_pass = XXXXXX  
# ansible_ssh_private_key_file=
```

```
[manager-master]  
ip=10.200.4.203  
ansible_ssh_pass =Yealink@2018  
# ansible_ssh_user=root
```

```
[manager-slave-1]  
ip=10.200.4.123  
ansible_ssh_pass =Yealink1105
```

```
[manager-slave-2]  
ip=10.200.4.234  
ansible_ssh_pass =Yealink1105
```

```
[business-1]  
ip=10.200.4.201  
ansible_ssh_pass =yealink123  
[business-2]  
# ip=x.x.x.x
```

```
[business-3]  
# ip=x.x.x.x  
~
```

Cluster Installation

Example 3+1(3 master nodes and 1 business node)

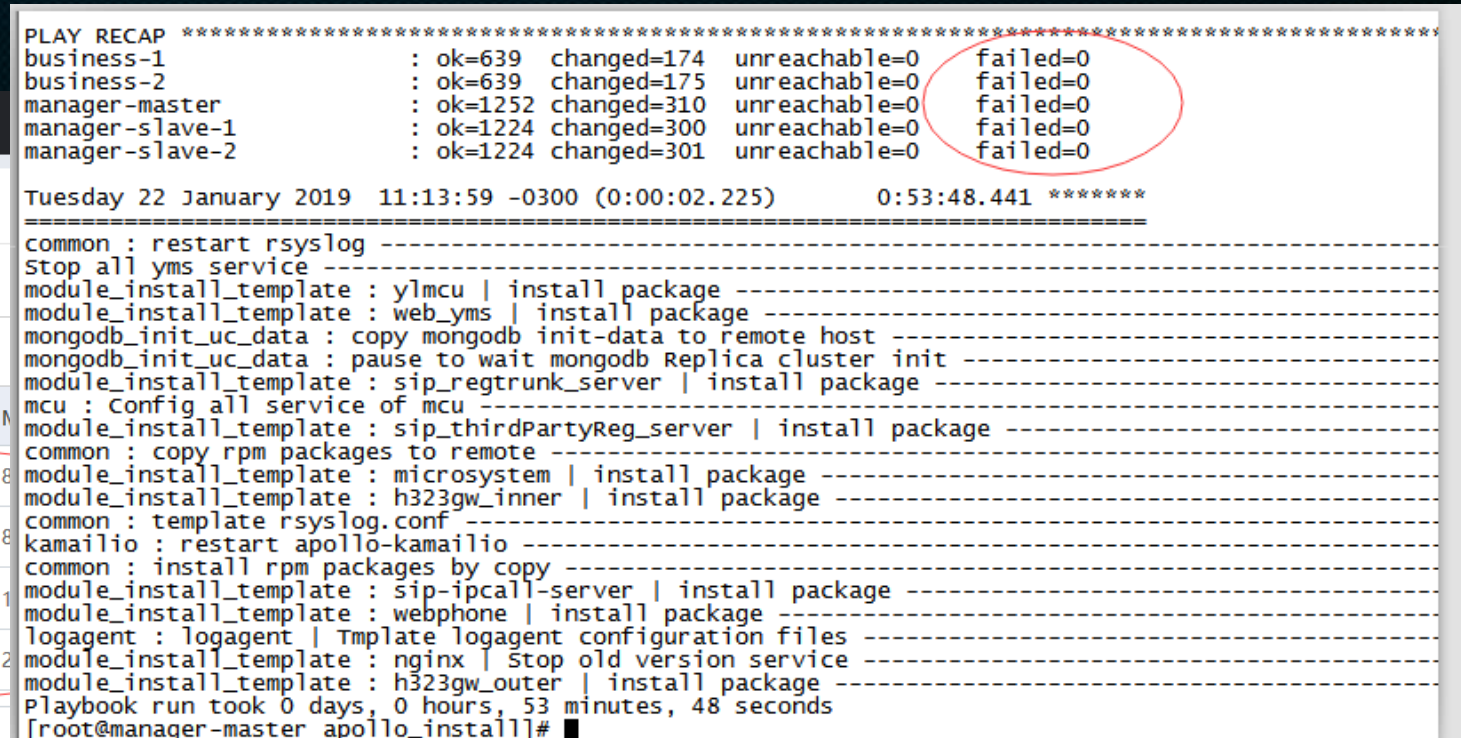
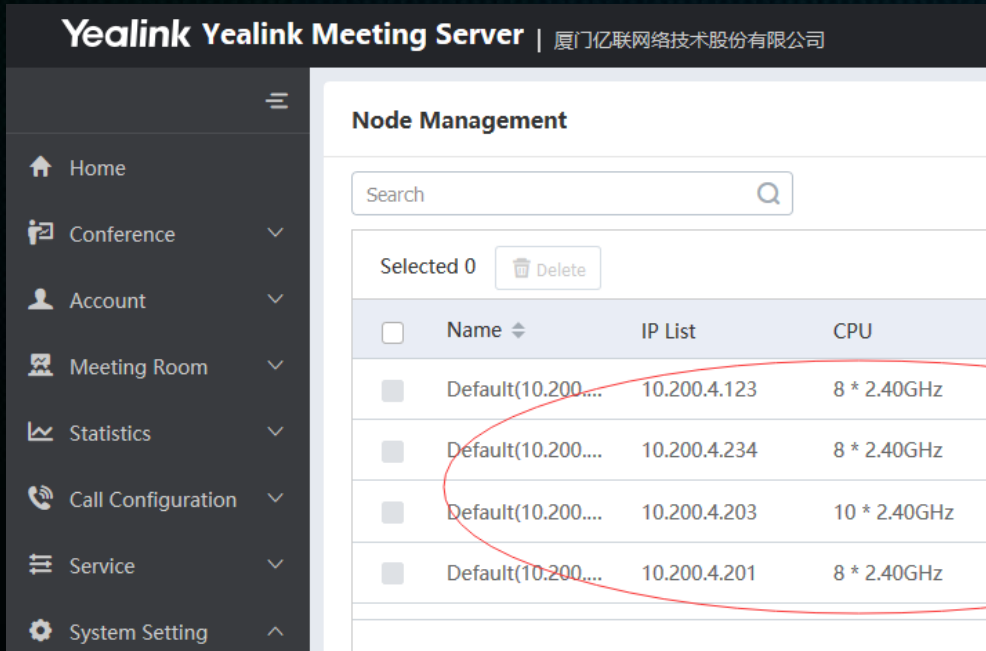
6. After saving the configuration file, enter the apollo_install folder:

```
cd /usr/local/apollo_install/
```

Perform the installation:

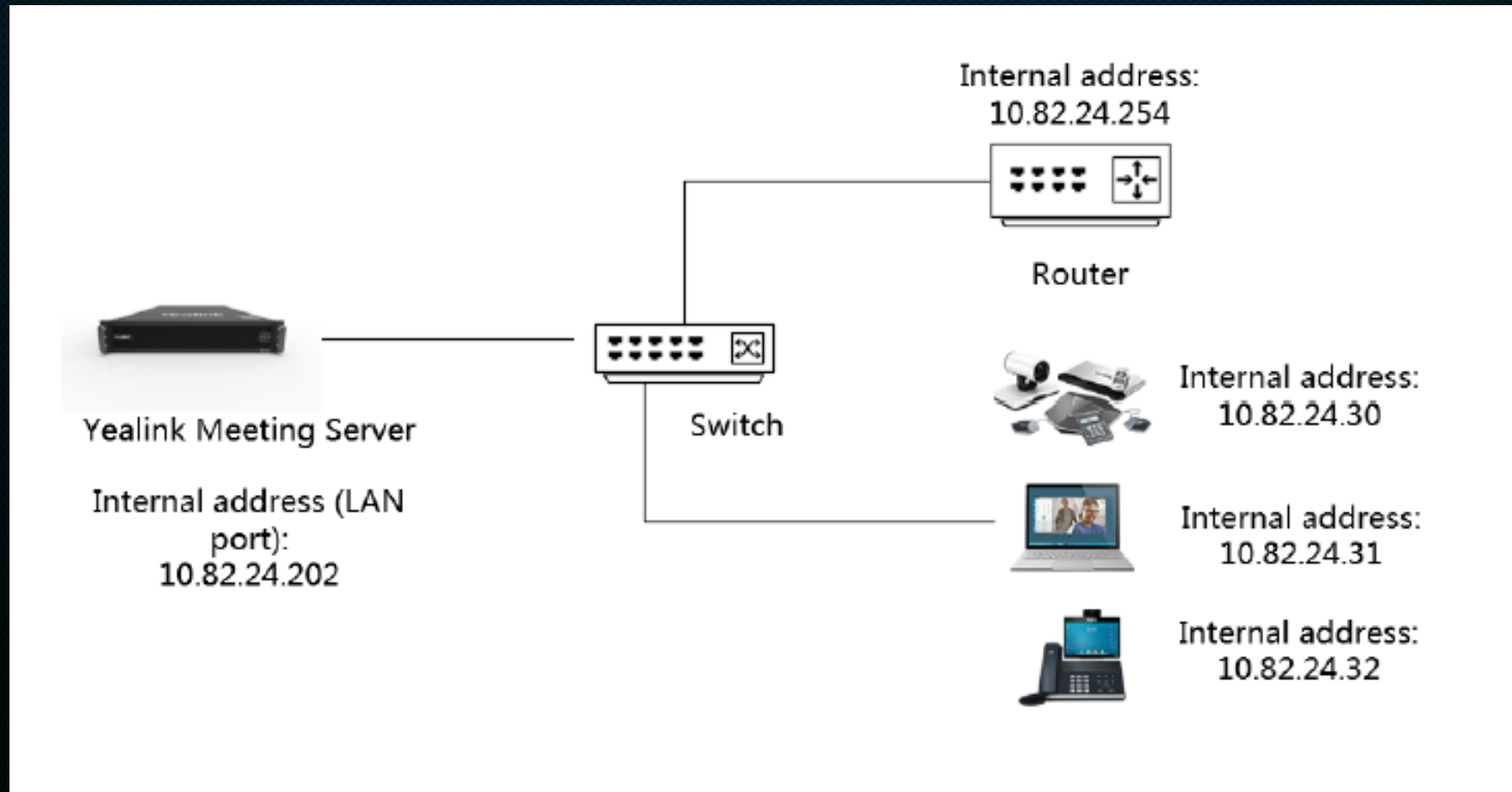
```
./install.sh
```

7. After the installation, enter the Web server. The default administrator credentials is admin/123456



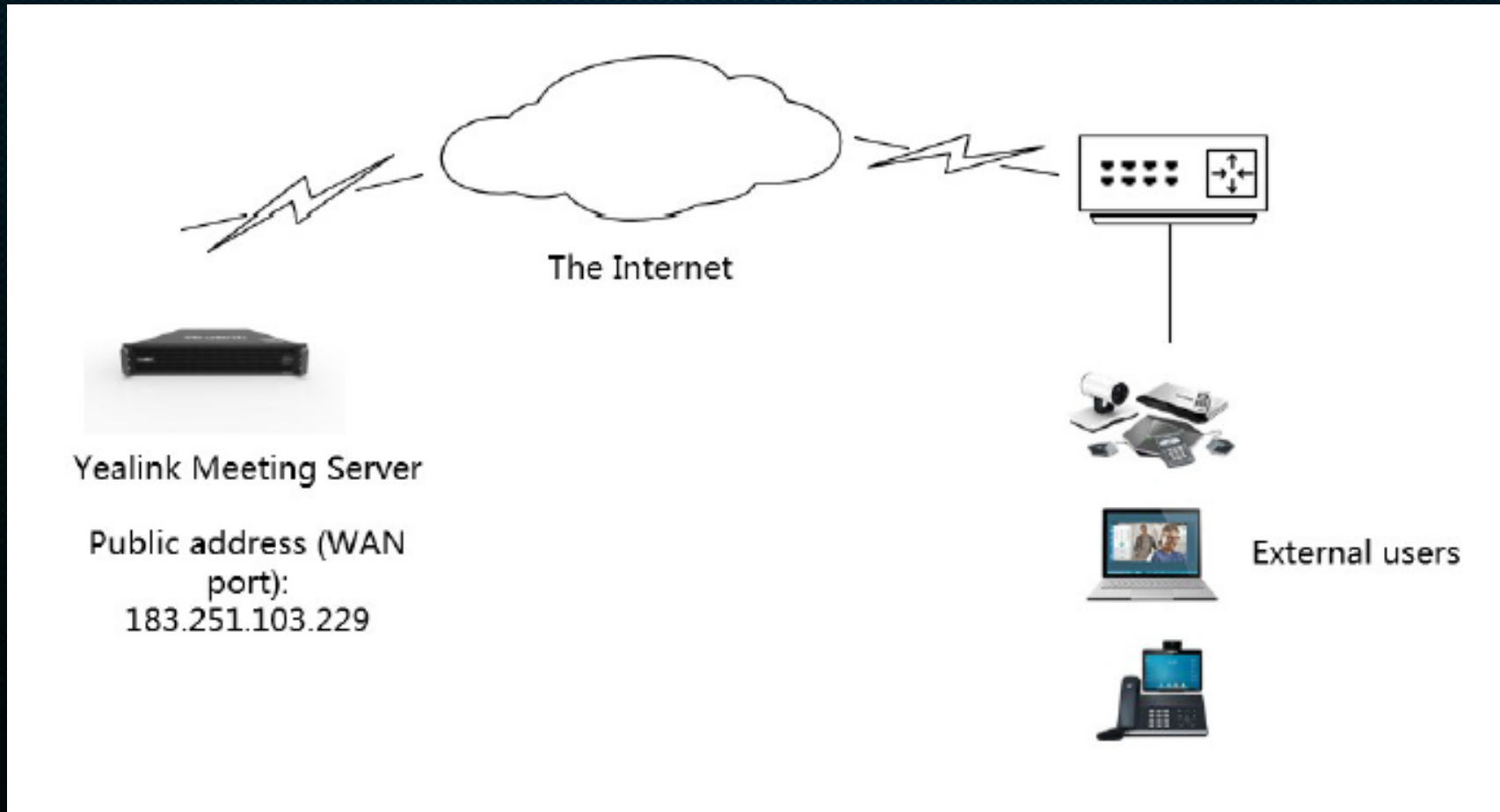
Network Deployment

Standard deployment 1 - Internal Deployment with One-IP NIC



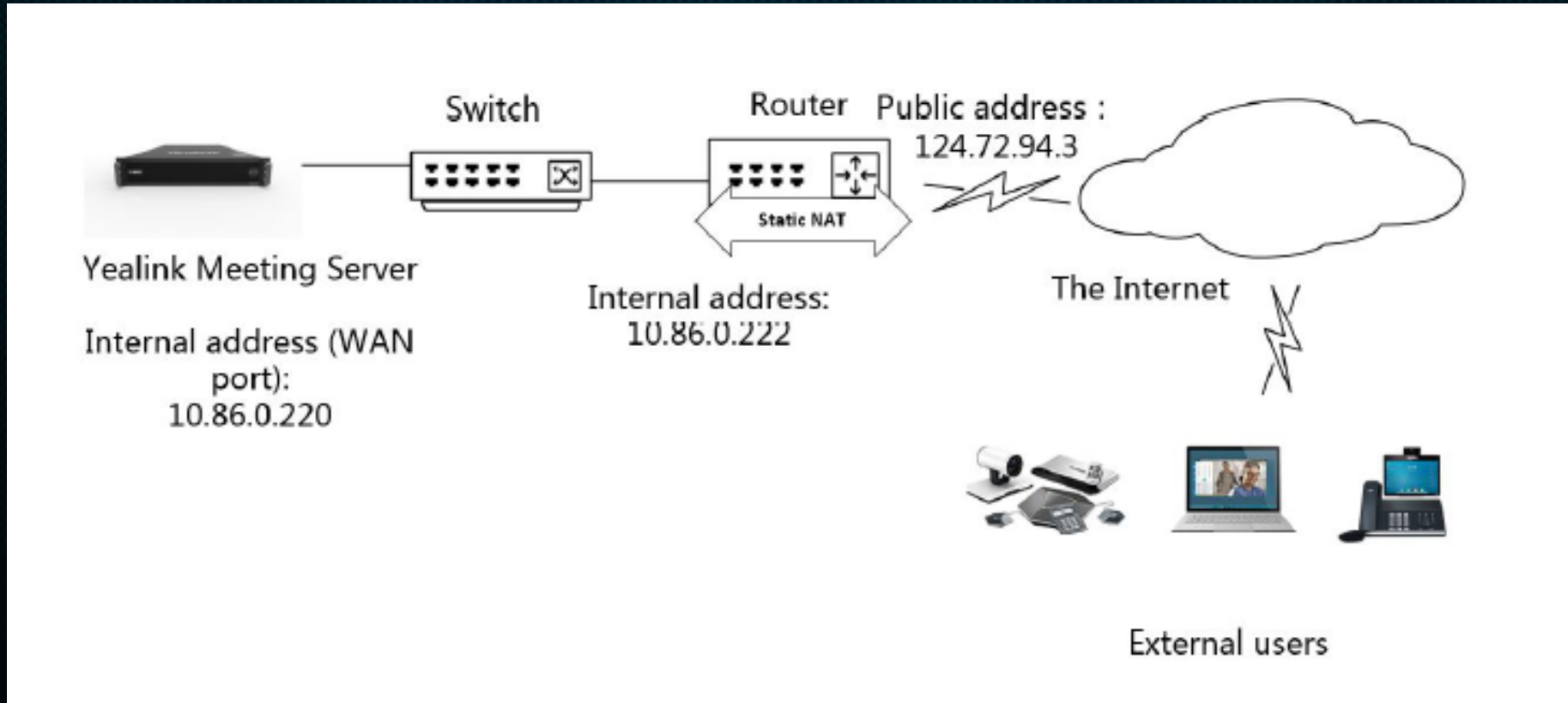
Network Deployment

Standard deployment 2 - External Deployment with One-IP NIC



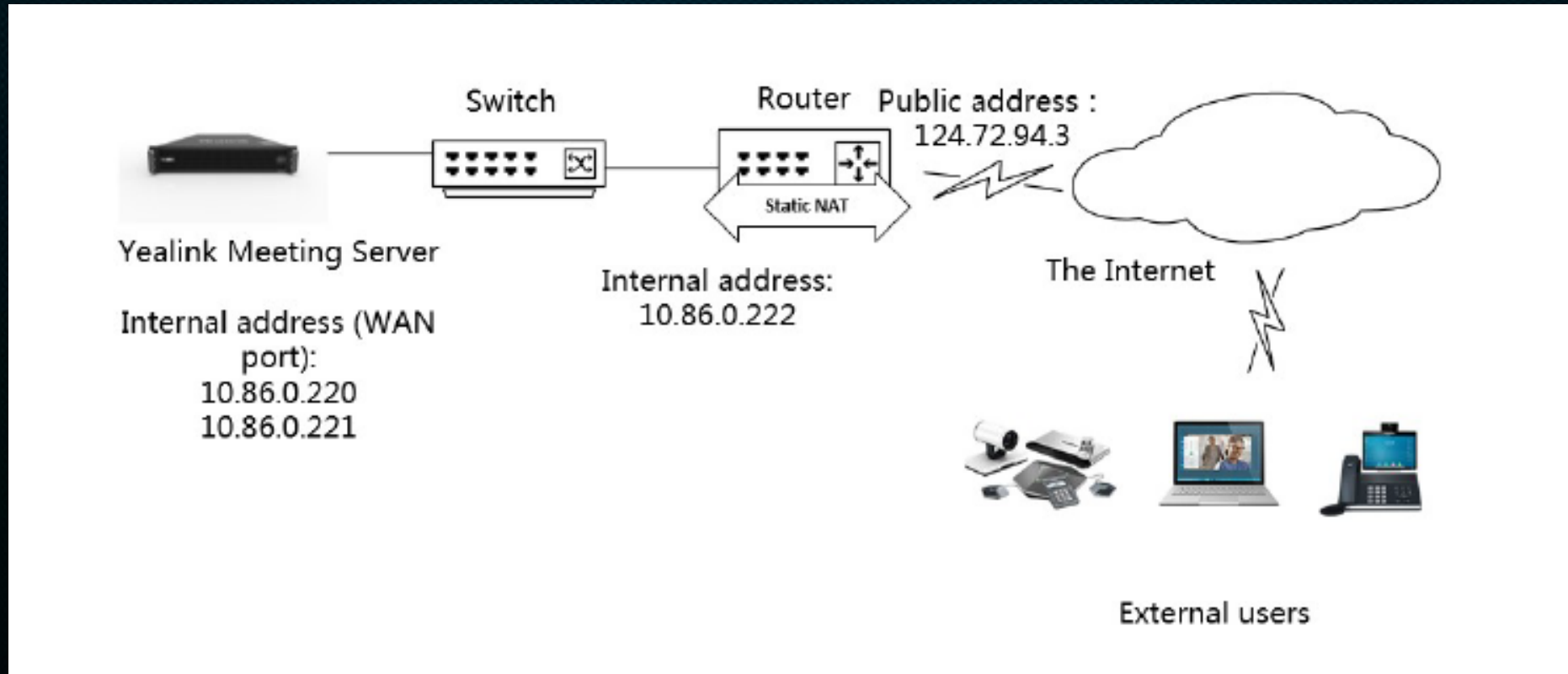
Network Deployment

Standard deployment 3 - External Deployment with One-IP NIC (with NAT)



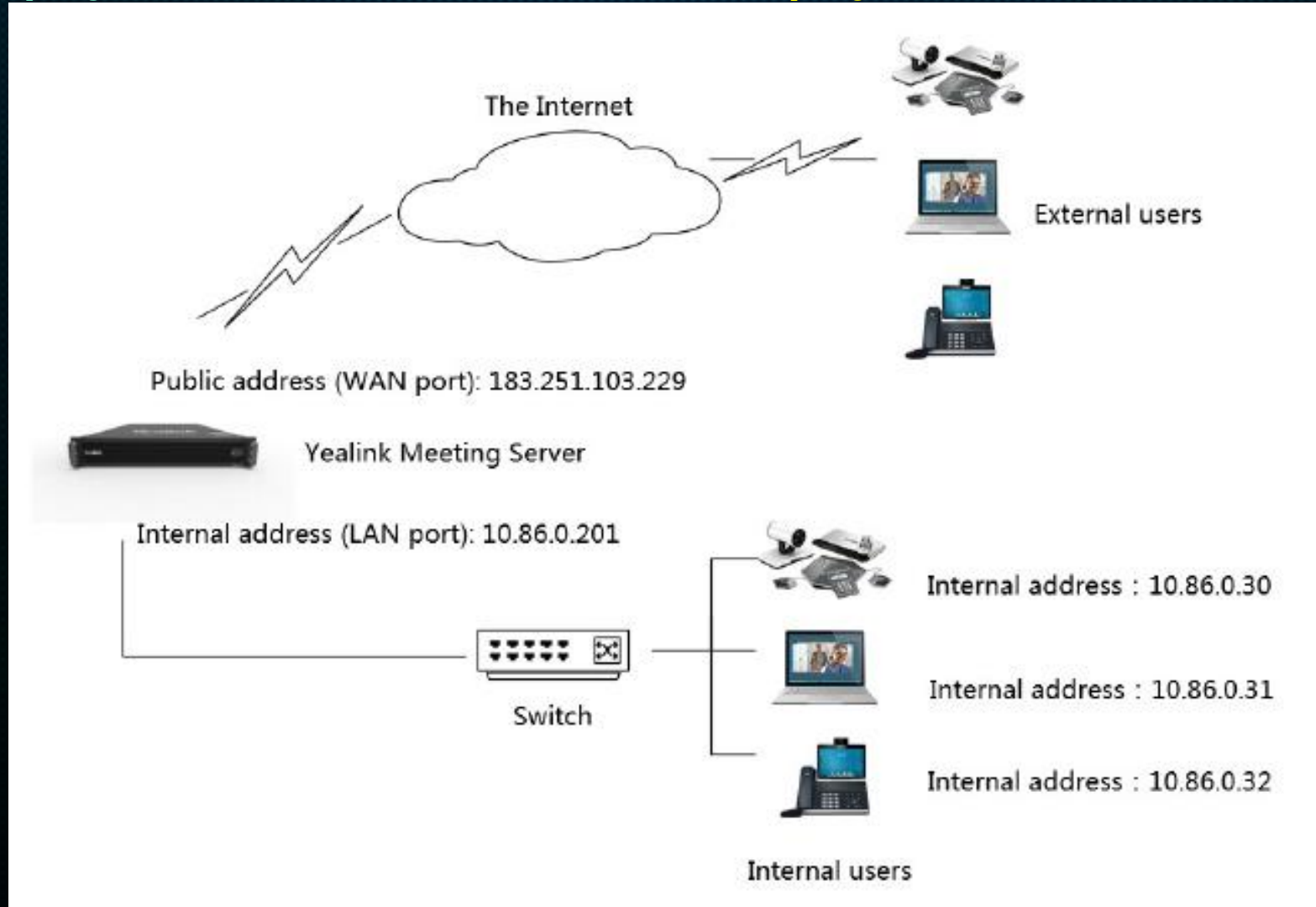
Network Deployment

Standard deployment 4 - Internal and External Deployment with Dual-IP NIC (with NAT)



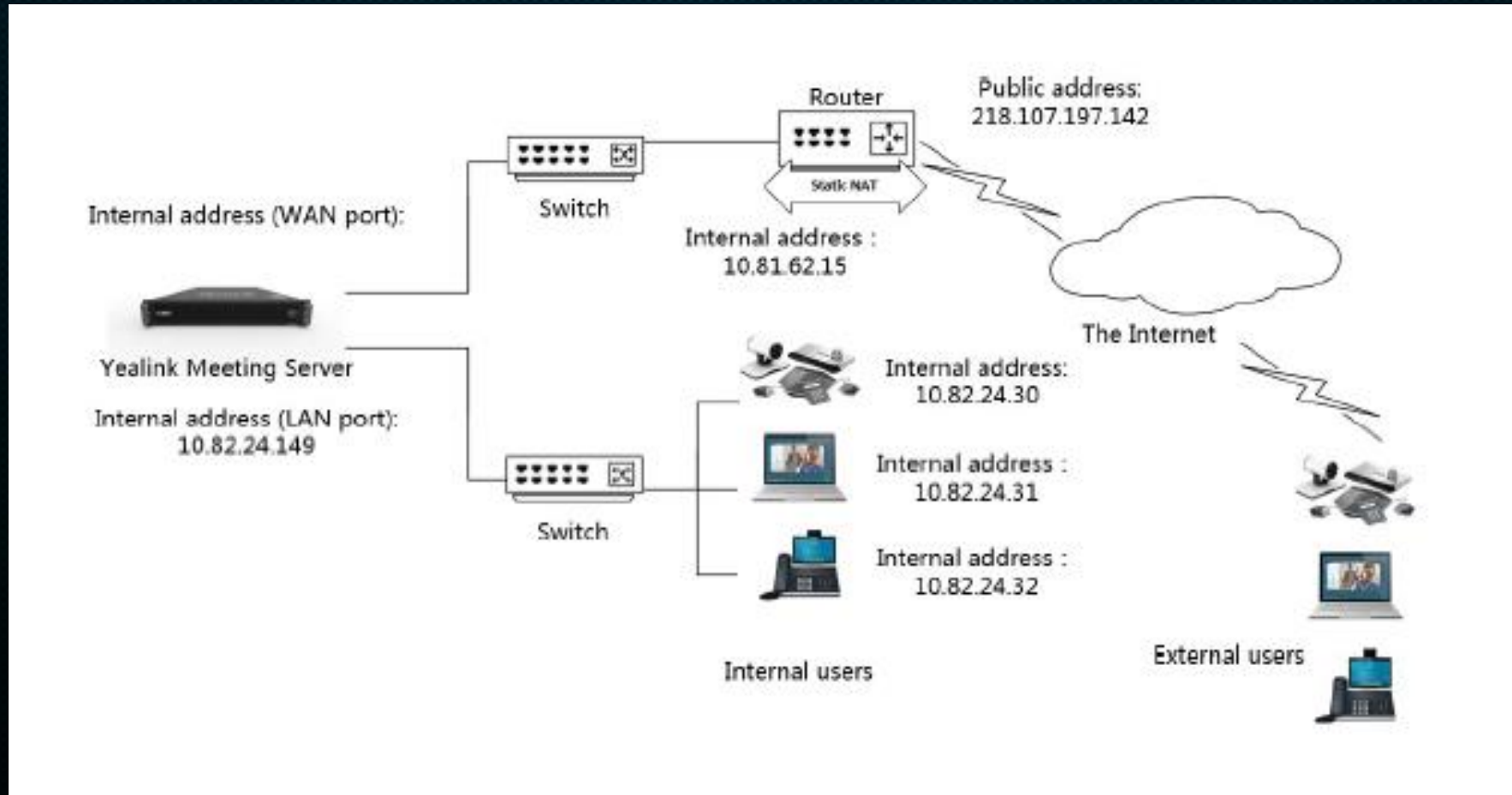
Network Deployment

Standard deployment 5 - Internal and External Deployment with Dual NIC



Network Deployment

Standard deployment 6 - Internal and External Deployment with Dual NIC (with NAT)



Basic Configuration – Setting the Primary Domain

1. Internal: Domain name (**pre.sale.com/10.200.4.189**), Proxy server (**10.200.4.189**)
2. External: Domain name (**pre.sale.com**), Proxy server (**124.72.xx.xx**)

Network Association | Time | Disk Space | SMTP Mailbox | Number Resource Allocation

* Primary domain :

Web access address :

Access network :	Access URL :
<input type="text" value="External network"/>	<input type="text" value="http://pre.sale.com"/>
<input type="text" value="Internal network"/>	<input type="text" value="http://10.200.4.189"/>

+ Add access address

* IVR port : ~

* BFCP/FECC port : ~

* Stack signalling port : ~

Basic Configuration – Node Management

Take standard deployment 4 as an example

Internal and External Deployment with Dual-IP NIC (with NAT)

This node has one network adapter: (10.200.4.188)

1. Add one IP address for internal network; (10.200.4.189)

2. One IP address NAT mapping to public IP for external network; (10.200.4.188)

Edit Node

ens192 Enabled 网络状态：连接

Network Gateway DNS Routing Rules

Selected 0

<input type="checkbox"/>	Name	IP Address	Subnet Mask	Public IP	Enabled	Operation
<input type="checkbox"/>	Intranet	10.200.4.189	255.255.255.0	<input type="radio"/> OFF	<input checked="" type="radio"/> ON	<input type="button" value="Edit"/>
<input type="checkbox"/>	Internet	10.200.4.188	255.255.255.0	<input checked="" type="radio"/> ON	<input checked="" type="radio"/> ON	<input type="button" value="Edit"/>

Basic Configuration – Port Mapping

Go to port mapping:

1. Choose one IP address (10.200.4.188) for port mapping into a public IP address (124.72.xx.xx)
2. Public port range should be same as internal port, usually is 1-65535

The screenshot displays the 'Address Port Mapping' configuration page. The sidebar on the left includes options like Service, System Setting, Common Setting, Node Management, Address Port Mapping (highlighted), Sub Admin Account, Security, License, Certificate, Customization, and Maintenance. The main content area shows a table with the following data:

<input type="checkbox"/>	Name	Public IP	Public Port	Internal IP	Internal Port	Enabled	Operation
<input type="checkbox"/>	NAT Internet mapping	124.72.xx.xx	400 - 60000	10.200.4.188	400 - 60000	ON	

At the bottom of the table, there is a 'Select all pages' checkbox, a 'Total 1' indicator, a '10/page' dropdown menu, and navigation buttons for page 1.

Basic Configuration – Registration Service

Enable Internal/External **user/endpoints** can register with YMS accounts

1. Internal: Register sever address (10.200.4.189, port:5061)
2. External: Register sever address (124.72.xx.xx, port:5061)

SIP

Registrar Service + Add

Search

Selected 0 Delete

<input type="checkbox"/>	Name	Node	Network(IP:Port)	Enabled	Operation
<input type="checkbox"/>	Intranet registr...	Default(127.0.0.1)	Intranet(10.200.4.189:5061)	ON	
<input type="checkbox"/>	Internet registr...	Default(127.0.0.1)	Internet(10.200.4.188:5061)	ON	

Select all pages Total 2 10/page < 1 > Go to 1

Basic Configuration – MCU Service

Enable Internal/External interactive meeting functions

1. Select: **Internal/External**, port: **50000-54999**

The screenshot displays the 'MCU Service' configuration page. On the left sidebar, 'Interactive Media Service' is selected. The main content area shows the 'Interactive Media Service' configuration table. The table has the following data:

<input type="checkbox"/>	Name	Node	Network	Port Range	Enabled	Operation
<input type="checkbox"/>	Interactive me...	Default(127.0.0.1)	Extranet,Intranet	50000~54999	ON	

At the bottom of the table, there is a pagination control showing 'Total 1', '10/page', and 'Go to 1'.

Basic Configuration – Traversal Service

Enable internal and external calling

1. Listener: **3478**, port: **40000-49999**

The screenshot displays the 'Traversal Service' configuration page. The sidebar on the left lists various system settings, with 'Traversal Service' currently selected. The main content area shows a table with the following data:

<input type="checkbox"/>	Name	Node	Listener	Relay Port Range	Enabled	Operation
<input type="checkbox"/>	Traversal	Default(127.0.0.1)	3478	40000~49999	ON	

Additional interface elements include a search bar at the top, a 'Selected 0' indicator with a 'Delete' button, and pagination controls at the bottom showing 'Total 1', '10/page', and 'Go to 1'.

Basic Configuration – Registration Service

1. Internal: Domain name (**pre.sale.com**), proxy server (**10.200.4.189**)
2. External: Domain name (**pre.sale.com**), proxy server (**124.72.xx.xx**)

The screenshot shows the 'System Settings' interface for internal registration. The 'Cloud Account' section is active, with the following fields: 'Yealink Meeting Server' (dropdown), '2652' (dropdown), a masked password field, 'pre.sale.com' (text input), a checked 'Remember password' checkbox, and an 'Advanced Options' link. Below this is the 'Internal network IP address' field containing '10.200.4.189' and a blue 'Login' button. The 'Basic Settings' section includes 'Site name' (Yealink VC Desktop), 'Language' (English), and a 'Start on boot' checkbox.

Internal network registration

Domain name

Internal network IP address

The screenshot shows the 'System Settings' interface for external registration. The 'Cloud Account' section is active, with the following fields: 'Yealink Meeting Server' (dropdown), '2652' (dropdown), a masked password field, 'pre.sale.com' (text input), a checked 'Remember password' checkbox, and an 'Advanced Options' link. Below this is the 'External IP address' field containing '124.72.94.16' and a blue 'Login' button. The 'Basic Settings' section includes 'Site name' (Yealink VC Desktop), 'Language' (English), and a 'Start on boot' checkbox.

External IP address

Basic Configuration – Factory Test

1. Go to ymsdomain.com/admin/hide/factory, enable **Initialization data**
2. Choose the **Number of entrances** and **Video resolution**

The screenshot shows the 'Factory test configuration' page in the Yealink Meeting Server admin interface. The page is titled 'Meeting Server | DEMO1' and includes navigation tabs for 'Custom configuration', 'Basic configuration', 'Factory test configuration', 'Data management', 'Third-party support', and 'Device MAC w'. The 'Factory test configuration' tab is active.

Test environment preparation

- Initialization data:** ON. Configure domain name, initialize account and conference data.
- Enable service:** OFF. Configure and enable SIP registration, IP direct dialing, TURN, and MCU services.

Conference information

- * Conference ID:** 80000
- * Password:** 123456
- * Number of entrances:** 64
- * Entry interval:** 1 seconds

The URL in the browser address bar is ymsdomain.com/admin/hide/factory. The 'Initialization data' toggle and the 'Entry interval' field are highlighted with red boxes.

Advanced Feature – SIP Trunk

Support Register Trunk and Peer trunk
compatible with third-party PBX system

The trunk service is designed to solve the problem of communication with third-party PBX.

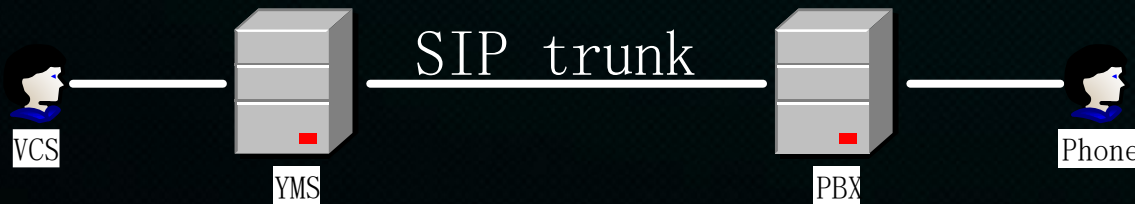
Register Trunk:

PBX account call into a YMS IVR and then transfer to extension or VMR.

YMS account call directly to PBX accounts.

Peer Trunk:

YMS accounts and PBX accounts can call through each other directly.



Advanced Feature – SIP Register Trunk

Example 3CX—YMS, YMS register an account to 3CX

1. Create an account in 3cx
2. Do register trunk configuration in YMS
3. Do call route in YMS
4. Test

Detailed configuration sample can be found here

<http://support.yealink.com/faq/faqInfo?id=782>

Advanced Feature – SIP Peer Trunk

Example FreePBX—YMS

1. Do Peer trunk configuration in YMS
2. Do call route in YMS
3. Do Trunk configuration in freePBX
4. Do call route in freepbx
5. Test

Detailed configuration sample can be found here:

<http://support.yealink.com/faq/faqInfo?id=783>

Advanced Feature – Skype For Business

1.Config SFB

If your SFB account is SFB online account(O365 account), you need to make sure the federation is enabled on Office 365

2.Config YMS

2.1 Public domain name (domain name resolution) and public IP.

2.2 Certificate issued by public CA for the YMS domain name

2.3 In YMS web interface config five places

- 1) upload the certificate in TLS certificate
- 2) add SFB Gateway Media Service
- 3) change registration service port
- 4) setting SFB gateway
- 5) add call routing

3.Config DNS

3.1 add SRV record

3.2 add A record

<http://support.yealink.com/faq/faqInfo?id=781>

Advanced Feature – LDAP

1.Add LDAP function

Step1: Config LDAP

Step2: Config AD server

2.Use LDAP create YMS account

Create YMS account one by one

Use Sync contact to create YMS account

3.How to use LDAP account

log in YMS schedule meeting interface

VCD will support LDAP account to log in (Q2 2019)

<http://support.yealink.com/faq/faqInfo?id=780>

Troubleshooting – Packet Capture

Yealink Meeting Server | DEMO1 Setup Wizard English

Ping **Packetcapture**

Select node: Default(127.0.0.1)

File Name: \$date_\$time

Packetcapture ethernet: All network adapter

Packet Filter String: ?

Capture now Schedule capture (Tips: Packetcapture will consume server resource)

2019/11/07 15:03 Packetcapture success

File Name: 20191107_090337.pcap [Export](#)

Noticed that the conference ID and the period of the conference should be provided as well

YMS Roadmap

YMS 2.4



2019.12

Support Microsoft Teams gateway
Support RTSP gateway
Support Face recognition
Support VMR scheduling
Support web configurable video/audio codec
Support Yealink Telepresence CT3000

YMS 3.X



2020

- Support English language voice to text transcription.
- Support face recognition sign-in
- Support H.264 SVC
- Support new generation soft client V3.X



QUESTIONS & ANSWERS



THANKS

Yealink | 让沟通更简单