



SANGFOR

SANGFOR vWANO Guide

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vWANO Guide

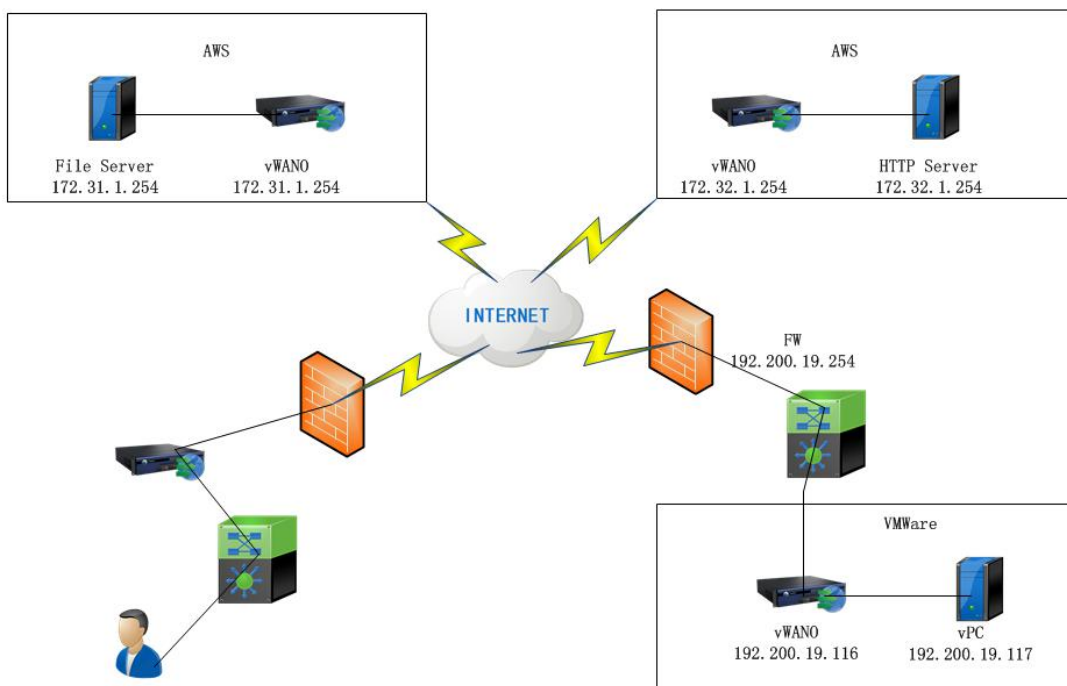
VWANO GUIDE	2
CONCEPT:	3
SCENARIOS:	3
CONFIGURATION:	3
vWANO IN AWS.....	3
vWANO IN VMWARE.....	19
CONFIGURE vWANO.....	31
SERVER IN AWS.....	32
ACTUALLY TEST:	36
LOCAL vWANO/WANO BUILD ACCELERATION TUNNEL WITH AWS CLOUD vWANO BY ELASTIC IP.....	36
AWS CLOUD vWANO BUILD ACCELERATION TUNNEL WITH AWS CLOUD vWANO BY ELASTIC IP.....	37
AWS CLOUD vWANO BUILD ACCELERATION TUNNEL WITH AWS CLOUD vWANO USE PRIVATE IP BY PEERING CONNECTIONS.....	37
NOTES:	39

Concept:

EC2: Virtual Servers in the Cloud

VPC: Isolated Cloud Resources

Scenarios:

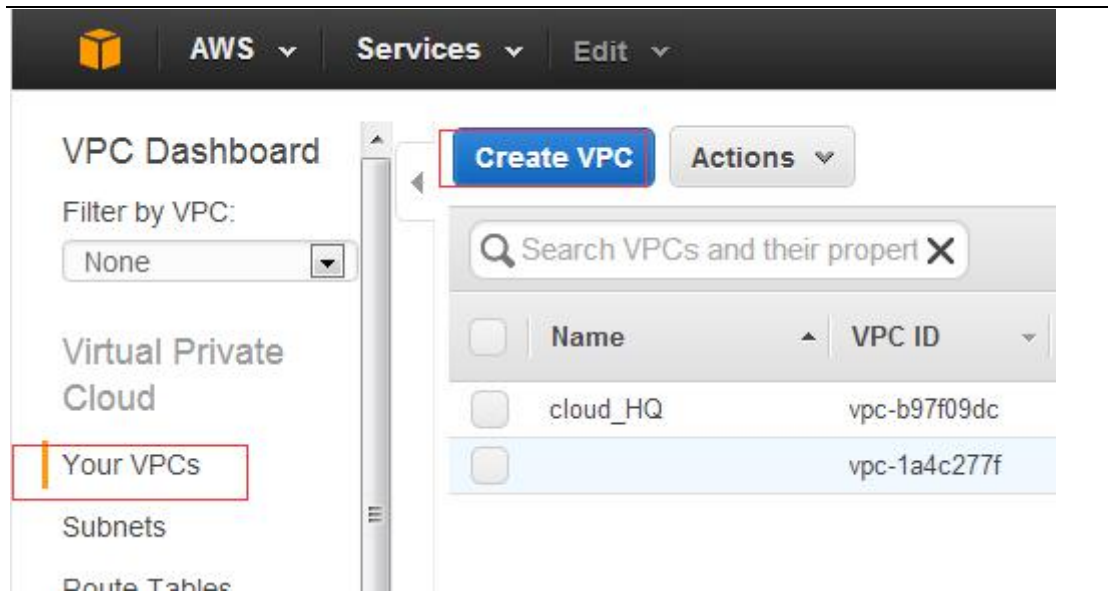


- 1、vWANO and vWANO build acceleration tunnel in AWS Cloud
- 2、vWANO in AWS build acceleration tunnel with local WANO or vWANO in VMware or vWANO in Hyper-V
- 3、vWANO in VMware or Hyper-V build acceleration tunnel with other side WANO or vWANO

Configuration:

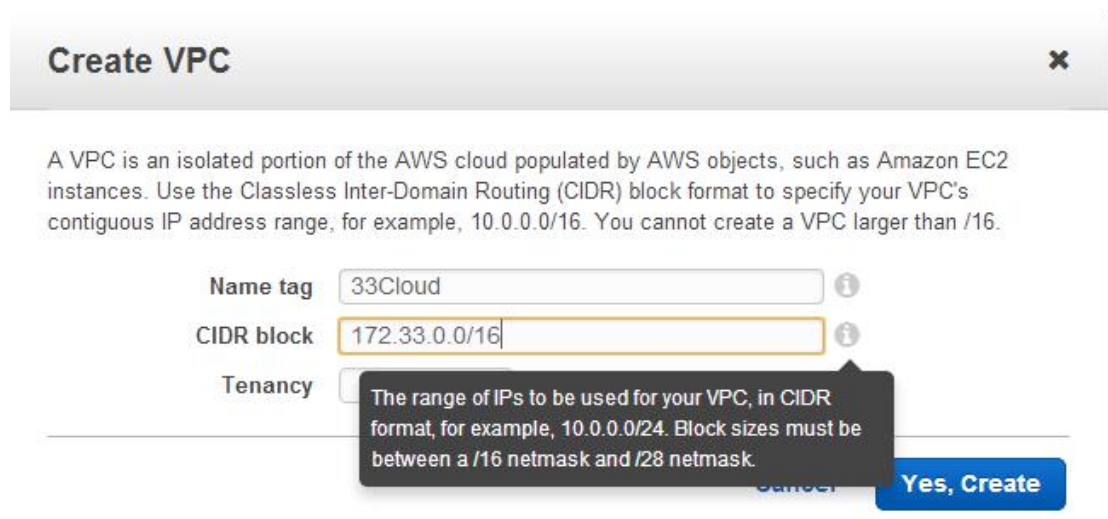
vWANO in AWS

- 1、Create VPC



The screenshot shows the AWS VPC Dashboard. At the top, there are navigation tabs for 'AWS', 'Services', and 'Edit'. The main content area is titled 'VPC Dashboard' and includes a 'Filter by VPC:' dropdown set to 'None'. On the left sidebar, 'Your VPCs' is highlighted with a red box. The main area features a 'Create VPC' button (also highlighted with a red box) and an 'Actions' dropdown. Below these is a search bar and a table of existing VPCs:

<input type="checkbox"/>	Name	VPC ID
<input type="checkbox"/>	cloud_HQ	vpc-b97f09dc
<input type="checkbox"/>		vpc-1a4c277f



The screenshot shows the 'Create VPC' wizard. It includes a title bar with a close button (X). Below the title bar is a descriptive paragraph: 'A VPC is an isolated portion of the AWS cloud populated by AWS objects, such as Amazon EC2 instances. Use the Classless Inter-Domain Routing (CIDR) block format to specify your VPC's contiguous IP address range, for example, 10.0.0.0/16. You cannot create a VPC larger than /16.' The form contains three fields: 'Name tag' with the value '33Cloud', 'CIDR block' with the value '172.33.0.0/16', and 'Tenancy' with a radio button. A tooltip points to the CIDR block field with the text: 'The range of IPs to be used for your VPC, in CIDR format, for example, 10.0.0.0/24. Block sizes must be between a /16 netmask and /28 netmask.' At the bottom right, there is a 'Yes, Create' button.

2、Create subnets

VPC Dashboard

Filter by VPC:

None ▾

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

DHCP Options Sets

Create Subnet

Subnet Actions ▾

Search Subnets and their prop X

<input type="checkbox"/>	Name	Subnet ID	State
<input type="checkbox"/>	172.32.0.0/24	subnet-f40f4e91	availat
<input type="checkbox"/>	172.31.0.0/24	subnet-e357cd94	availat
<input type="checkbox"/>	172.32.1.0	subnet-ff0f4e9a	availat
<input type="checkbox"/>	172.31.1.0/24	subnet-0257cd75	availat

Create Subnet



Use the CIDR format to specify your subnet's IP address block (e.g., 10.0.0.0/24). Note that block sizes must be between a /16 netmask and /28 netmask. Also, note that a subnet can be the same size as your VPC.

Name tag ⓘ

VPC ▾ ⓘ

Availability Zone ▾ ⓘ

CIDR block ⓘ

The CIDR format to specify the range of IP addresses (e.g., 10.0.0.0/24) in a subnet. The range of IP addresses in the subnet must be a subset of the IP address in the VPC. Block sizes must be between a /16 netmask and /28 netmask. The size of the subnet can equal the size of the VPC.

Yes, Create

Create Subnet

✕

Use the CIDR format to specify your subnet's IP address block (e.g., 10.0.0.0/24). Note that block sizes must be between a /16 netmask and /28 netmask. Also, note that a subnet can be the same size as your VPC.

Name tag i

VPC v i

Availability Zone i

CIDR block i

Cancel
Yes, Create

3、Create internet Gateway

VPC Dashboard

Filter by VPC:

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Create Internet Gateway
Delete
Attach to VPC
Detach from VPC

	Name	ID	State	VPC
<input type="checkbox"/>	Cloud_HQ_Gateway	igw-1ef3777b	attached	vpc-b97f09dc (172.32.0.0/16) c...
<input type="checkbox"/>		igw-a9ce74cc	attached	vpc-1a4c277f (172.31.0.0/16)

Select an Internet gateway above

Create Internet Gateway

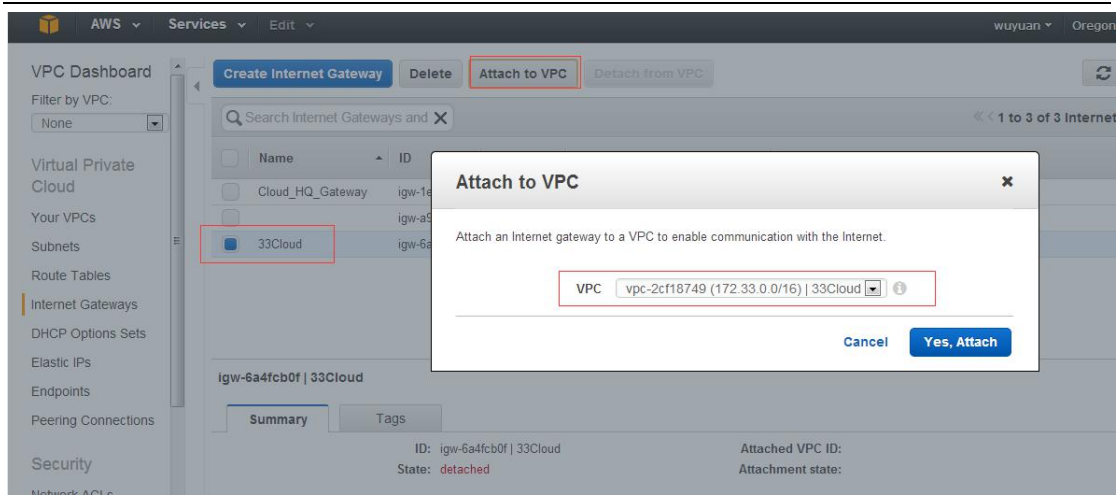
✕

An Internet gateway is a virtual router that connects a VPC to the Internet.

Name tag i

Cancel
Yes, Create

attach to VPC

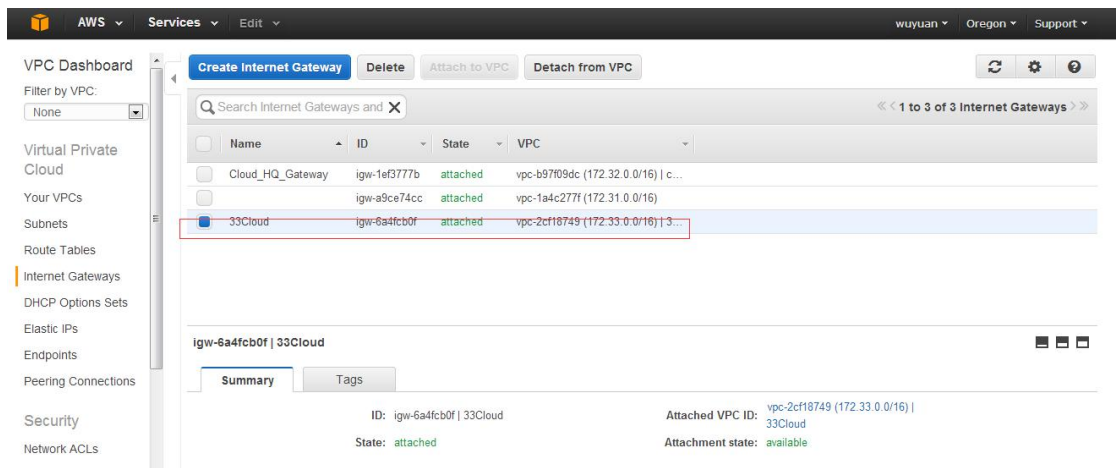


Attach to VPC

Attach an Internet gateway to a VPC to enable communication with the Internet.

VPC: vpc-2cf18749 (172.33.0.0/16) | 33Cloud

Cancel Yes, Attach



Internet Gateways

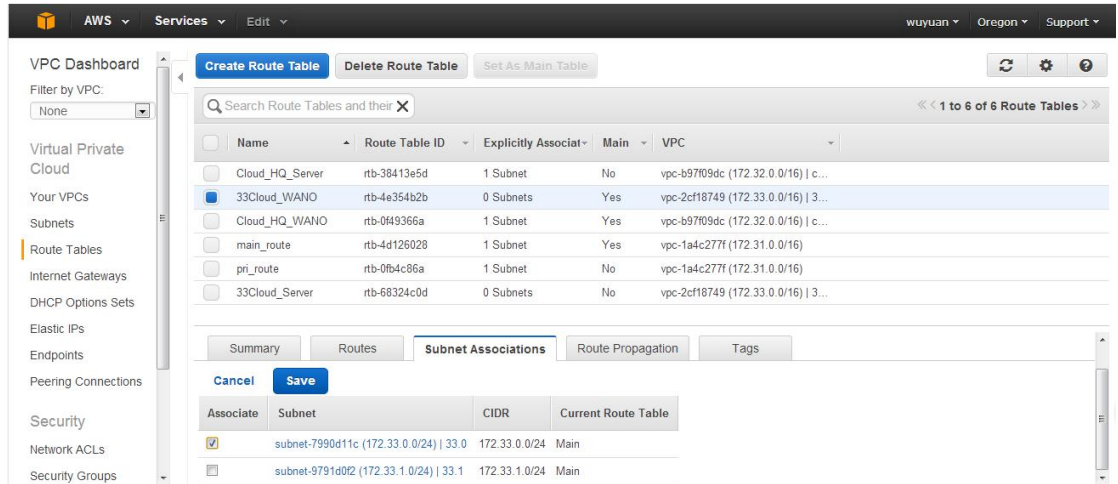
Name	ID	State	VPC
Cloud_HQ_Gateway	igw-1ef3777b	attached	vpc-b97f09dc (172.32.0.0/16) c...
	igw-a9ce74cc	attached	vpc-1a4c277f (172.31.0.0/16)
33Cloud	igw-6a4fcb0f	attached	vpc-2cf18749 (172.33.0.0/16) 3...

igw-6a4fcb0f | 33Cloud

Summary Tags

ID: igw-6a4fcb0f | 33Cloud Attached VPC ID: vpc-2cf18749 (172.33.0.0/16) | 33Cloud
 State: attached Attachment state: available

4、Create route tables and bind subnet and add default route



Route Tables

Name	Route Table ID	Explicitly Associat+	Main	VPC
Cloud_HQ_Server	rtb-38413e5d	1 Subnet	No	vpc-b97f09dc (172.32.0.0/16) c...
33Cloud_WANO	rtb-4e354b2b	0 Subnets	Yes	vpc-2cf18749 (172.33.0.0/16) 3...
Cloud_HQ_WANO	rtb-0f49366a	1 Subnet	Yes	vpc-b97f09dc (172.32.0.0/16) c...
main_route	rtb-4d126028	1 Subnet	Yes	vpc-1a4c277f (172.31.0.0/16)
pri_route	rtb-0fb4c86a	1 Subnet	No	vpc-1a4c277f (172.31.0.0/16)
33Cloud_Server	rtb-68324c0d	0 Subnets	No	vpc-2cf18749 (172.33.0.0/16) 3...

Subnet Associations

Cancel Save

Associate	Subnet	CIDR	Current Route Table
<input checked="" type="checkbox"/>	subnet-7990d11c (172.33.0.0/24) 33.0	172.33.0.0/24	Main
<input type="checkbox"/>	subnet-9791d0f2 (172.33.1.0/24) 33.1	172.33.1.0/24	Main

AWS Services Edit wuyuan Oregon Support

VPC Dashboard **Create Route Table** Delete Route Table Set As Main Table

Filter by VPC: None

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Peering Connections

Security

Network ACLs

Security Groups

Search Route Tables and their X << 1 to 6 of 6 Route Tables >>

Name	Route Table ID	Explicitly Associat	Main	VPC
Cloud_HQ_Server	rtb-38413e5d	1 Subnet	No	vpc-b97f09dc (172.32.0.0/16) c...
33Cloud_WANO	rtb-4e354b2b	1 Subnet	Yes	vpc-2cf18749 (172.33.0.0/16) 3...
Cloud_HQ_WANO	rtb-0f49366a	1 Subnet	Yes	vpc-b97f09dc (172.32.0.0/16) c...
main_route	rtb-4d126028	1 Subnet	Yes	vpc-1a4c277f (172.31.0.0/16)
pri_route	rtb-0fb4c86a	1 Subnet	No	vpc-1a4c277f (172.31.0.0/16)
33Cloud_Server	rtb-68324c0d	0 Subnets	No	vpc-2cf18749 (172.33.0.0/16) 3...

rtb-4e354b2b | 33Cloud_WANO

Summary **Routes** Subnet Associations Route Propagation Tags

Edit

Destination	Target	Status	Propagated
172.33.0.0/16	local	Active	No

AWS Services Edit wuyuan Oregon Support

VPC Dashboard **Create Route Table** Delete Route Table Set As Main Table

Filter by VPC: None

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Peering Connections

Security

Network ACLs

Security Groups

Search Route Tables and their X << 1 to 6 of 6 Route Tables >>

Name	Route Table ID	Explicitly Associat	Main	VPC
Cloud_HQ_Server	rtb-38413e5d	1 Subnet	No	vpc-b97f09dc (172.32.0.0/16) c...
33Cloud_WANO	rtb-4e354b2b	1 Subnet	Yes	vpc-2cf18749 (172.33.0.0/16) 3...
Cloud_HQ_WANO	rtb-0f49366a	1 Subnet	Yes	vpc-b97f09dc (172.32.0.0/16) c...
main_route	rtb-4d126028	1 Subnet	Yes	vpc-1a4c277f (172.31.0.0/16)
pri_route	rtb-0fb4c86a	1 Subnet	No	vpc-1a4c277f (172.31.0.0/16)
33Cloud_Server	rtb-68324c0d	0 Subnets	No	vpc-2cf18749 (172.33.0.0/16) 3...

Cancel Save

Destination	Target	Status	Propagated	Remove
172.33.0.0/16	local	Active	No	
0.0.0.0/0	igw-6a4fcb0f 33Cloud	No		

Add another route No results

33Cloud_Server rtb-68324c0d 1 Subnet No vpc-2cf18749 (172.33.0.0/16) | 3...

rtb-68324c0d | 33Cloud_Server

Summary **Routes** **Subnet Associations** Route Propagation Tags

Edit **Save Successful**

Subnet	CIDR
subnet-9791d0f2 (172.33.1.0/24) 33.1	172.33.1.0/24

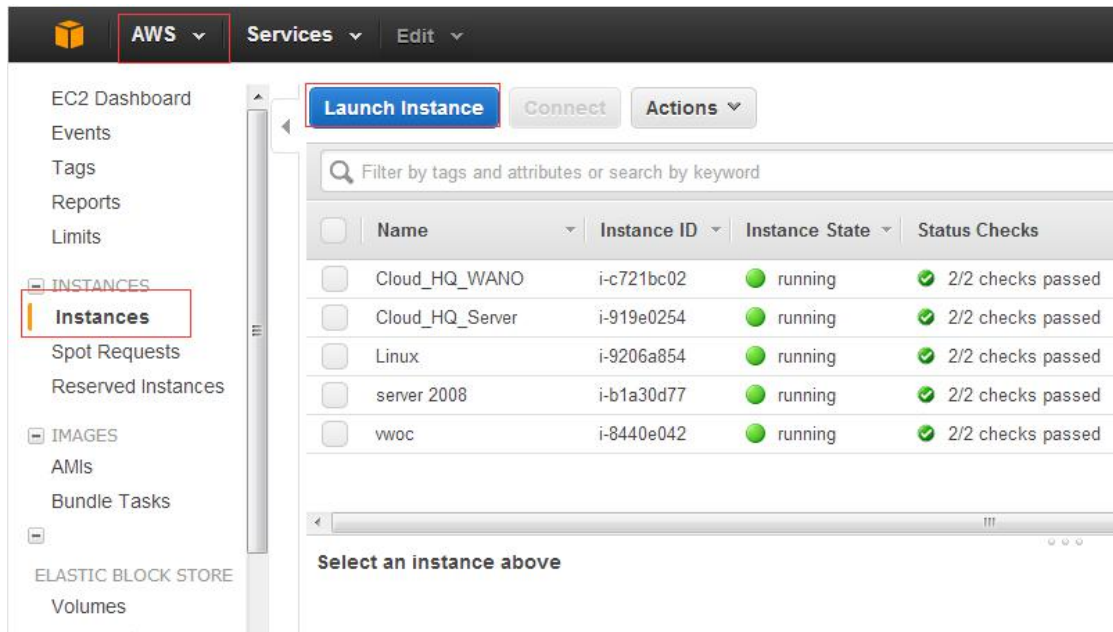
33Cloud_Server rtb-68324c0d 1 Subnet No vpc-2cf18749 (172.33.0.0/16) | 3...

Cancel Save

Destination	Target	Status	Propagated	Remove
172.33.0.0/16	local	Active	No	
0.0.0.0/0	igw-6a4fcb0f	No		

Add another route

5、Create instance



EC2 Dashboard

Events

Tags

Reports

Limits

INSTANCES

Instances

Spot Requests

Reserved Instances

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

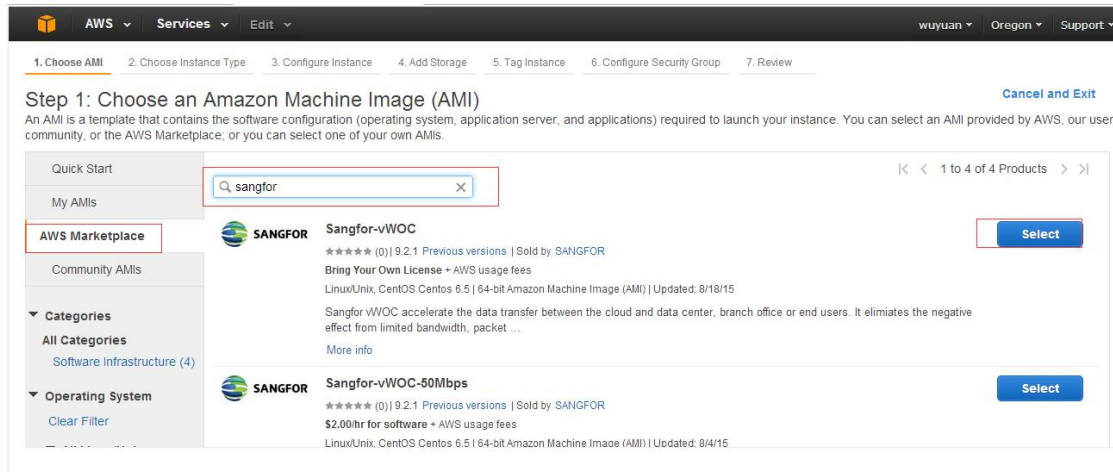
Volumes

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

<input type="checkbox"/>	Name	Instance ID	Instance State	Status Checks
<input type="checkbox"/>	Cloud_HQ_WANO	i-c721bc02	running	2/2 checks passed
<input type="checkbox"/>	Cloud_HQ_Server	i-919e0254	running	2/2 checks passed
<input type="checkbox"/>	Linux	i-9206a854	running	2/2 checks passed
<input type="checkbox"/>	server 2008	i-b1a30d77	running	2/2 checks passed
<input type="checkbox"/>	wvoc	i-8440e042	running	2/2 checks passed

Select an instance above



1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

Step 1: Choose an Amazon Machine Image (AMI) Cancel and Exit

An AMI is a template that contains the software configuration (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.

Quick Start

My AMIs

Search: sangfor

AWS Marketplace

Community AMIs

Categories

All Categories

Software Infrastructure (4)

Operating System

Clear Filter

SANGFOR Sangfor-vWOC Select

★★★★ (0) | 9.2.1 Previous versions | Sold by SANGFOR

Bring Your Own License + AWS usage fees

Linux/Unix, CentOS Centos 6.5 | 64-bit Amazon Machine Image (AMI) | Updated: 8/18/15

Sangfor vWOC accelerate the data transfer between the cloud and data center, branch office or end users. It eliminates the negative effect from limited bandwidth, packet ...

More info

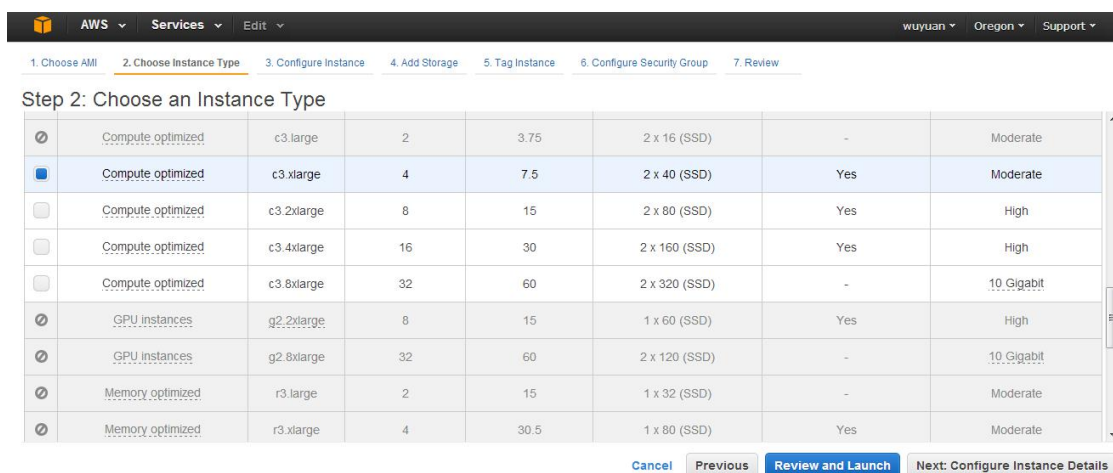
SANGFOR Sangfor-vWOC-50Mbps Select

★★★★ (0) | 9.2.1 Previous versions | Sold by SANGFOR

\$2.00/hr for software + AWS usage fees

Linux/Unix, CentOS Centos 6.5 | 64-bit Amazon Machine Image (AMI) | Updated: 8/14/15

Choose type according to customer's requirement.



1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

Step 2: Choose an Instance Type

<input type="checkbox"/>	Instance Type	VCpus	Memory (GiB)	Storage (SSD)	Network	Performance
<input type="checkbox"/>	Compute optimized	c3.large	2	3.75	2 x 16 (SSD)	Moderate
<input checked="" type="checkbox"/>	Compute optimized	c3.xlarge	4	7.5	2 x 40 (SSD)	Moderate
<input type="checkbox"/>	Compute optimized	c3.2xlarge	8	15	2 x 80 (SSD)	High
<input type="checkbox"/>	Compute optimized	c3.4xlarge	16	30	2 x 160 (SSD)	High
<input type="checkbox"/>	Compute optimized	c3.8xlarge	32	60	2 x 320 (SSD)	10 Gigabit
<input type="checkbox"/>	GPU instances	g2.2xlarge	8	15	1 x 60 (SSD)	High
<input type="checkbox"/>	GPU instances	g2.8xlarge	32	60	2 x 120 (SSD)	10 Gigabit
<input type="checkbox"/>	Memory optimized	r3.large	2	15	1 x 32 (SSD)	Moderate
<input type="checkbox"/>	Memory optimized	r3.xlarge	4	30.5	1 x 80 (SSD)	Moderate

Cancel Previous **Review and Launch** Next: Configure Instance Details

Configure Instance details

Step 3: Configure Instance Details

1. Choose AMI | 2. Choose Instance Type | 3. Configure Instance | 4. Add Storage | 5. Tag Instance | 6. Configure Security Group | 7. Review

Network Create new VPC
 vpc-2cf18749 (172.33.0.0/16) | 33Cloud

Subnet Create new subnet
 subnet-7990d11c (172.33.0.0/24) | 33.0 | us-west-2 | 251 IP Addresses available

Auto-assign Public IP
 Use subnet setting (Disable)

Placement group
 No placement group

IAM role Create new IAM role
 None

Shutdown behavior
 Stop

Enable termination protection Protect against accidental termination

Monitoring Enable CloudWatch detailed monitoring
 Additional charges apply.

EBS-optimized instance Launch as EBS-optimized instance

Cancel Previous **Review and Launch** Next: Add Storage

Step 3: Configure Instance Details

Monitoring Enable CloudWatch detailed monitoring
 Additional charges apply.

EBS-optimized instance Launch as EBS-optimized instance
 Additional charges apply.

Tenancy
 Shared tenancy (multi-tenant hardware)
 Additional charges will apply for dedicated tenancy.

Network interfaces

Device	Network Interface	Subnet	Primary IP	Secondary IP addresses
eth0	New network interface	subnet-7990d11	172.33.0.254	Add IP

Add Device

Advanced Details

Cancel Previous **Review and Launch** Next: Add Storage

Choose storage

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Delete on Termination	Encrypted
Root	/dev/sda1	snap-59d821df	32	General Purpose (SSD)	96 / 3000	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel Previous **Review and Launch** Next: Tag Instance

Tag instance

Step 5: Tag Instance
 A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. [Learn more](#) about tagging your Amazon EC2 resources.

Key (127 characters maximum) Value (255 characters maximum)

33cloud 33cloud

Create Tag (Up to 10 tags maximum)

Cancel Previous **Review and Launch** Next: Configure Security Group

Configure Security Group

Step 6: Configure Security Group

Assign a security group: Create a new security group
 Select an existing security group

Security group name: 33Cloud_WANO

Description: This security group was generated by AWS Marketplace and is based on recommende

Type	Protocol	Port Range	Source
SSH	TCP	22	Anywhere 0.0.0.0/0
Custom TCP Rule	TCP	85	Anywhere 0.0.0.0/0
HTTPS	TCP	443	Anywhere 0.0.0.0/0
Custom TCP Rule	TCP	4009	Anywhere 0.0.0.0/0
Custom UDP Rule	UDP	4009	Anywhere 0.0.0.0/0
Custom TCP Rule	TCP	5400 - 5410	Anywhere 0.0.0.0/0
Custom UDP Rule	UDP	5400	Anywhere 0.0.0.0/0

Cancel Previous **Review and Launch**

Instance has created, but run instance need a key pair, if this is the first time create instance, you can create a new pair or you can use the key pair created before.

Step 7: Review Instance Launch

Please review your instance launch details. You can't edit the launch process.

Improve your instances' security
 Your instances may be accessible from the Internet. You can also open additional ports in your security groups.

Your instance configuration is eligible for a discount
 To launch an instance that's eligible for a discount, you must accept the applicable terms and usage restrictions.

AMI Details
 Sangfor-vWOC
 WOC9.2.1_EN_WOC
 Root Device Type: ebs Virtualization: paravirtualized

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.

Create a new key pair

Key pair name: 33cloud

Download Key Pair

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel **Launch Instances**

Run instance success

Launch Status

✓ Your instances are now launching
The following instance launches have been initiated: [i-75d841b0](#) [View launch log](#)

⋮ Get notified of estimated charges
[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out how to connect to your instances.](#)

Getting started with your software

To get started with Sangfor-vWOC [View Usage Instructions](#) To manage your software subscription [Open Your Software on AWS Marketplace](#)

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6、view instance status, after initializing we can go on next step.

Launch Instance **Connect** **Actions**

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance State	Status Checks	Public DNS	Public IP	Key Name
33Cloud_WANO	i-75d841b0	running	Initializing			33cloud
Cloud_HQ_WANO	i-c721bc02	running	2/2 checks passed		54.68.60.231	wano
Cloud_HQ_Server	i-919e0254	running	2/2 checks passed		52.24.120.144	wano
Linux	i-9206a854	running	2/2 checks passed	ec2-52-24-111-205.us-...	52.24.111.205	sangfor
server 2008	i-b1a30d77	running	2/2 checks passed	ec2-52-26-83-37.us-we...	52.26.83.37	sangfor
wvoc	i-8440e042	running	2/2 checks passed	ec2-54-149-118-31.us-...	54.149.118.31	sangfor

Instance: i-75d841b0 (33Cloud_WANO) Private IP: 172.31.0.254

7、Allocate elastic IPs(this step just as DNAT, allocate a public IP and NAT to private IP)

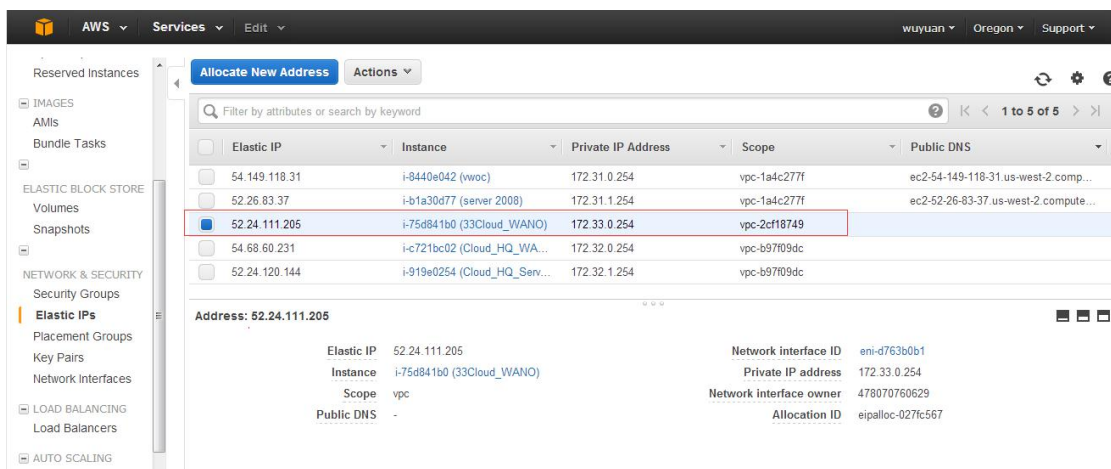
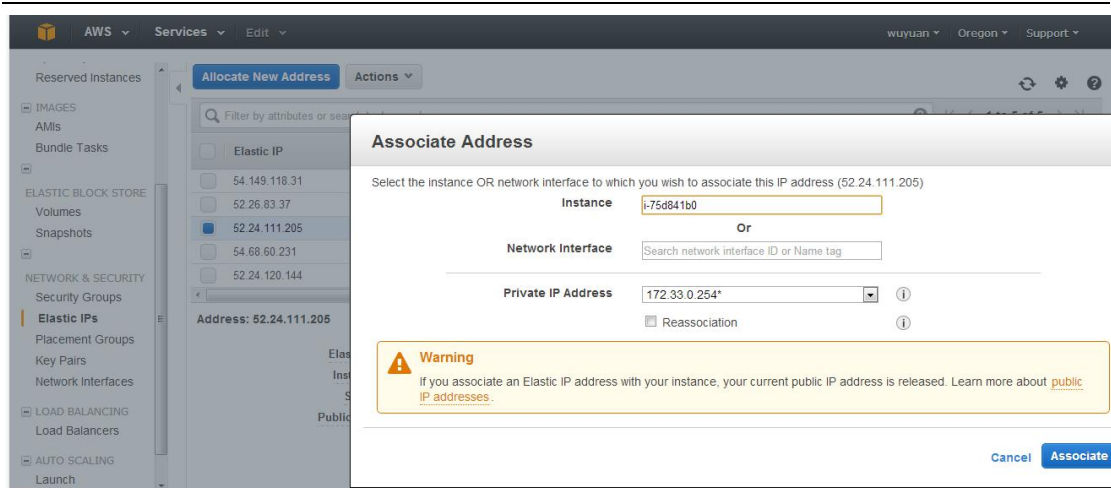
Allocate New Address **Actions**

Filter by attributes or search by keyword

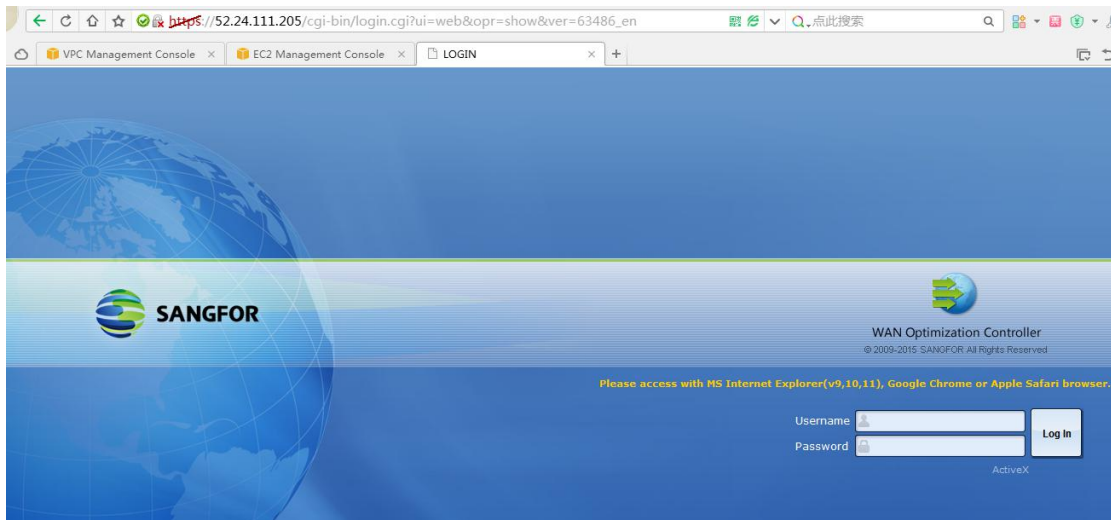
Elastic IP	Instance	Private IP Address	Scope	Public DNS
54.149.118.31	i-8440e042 (wvoc)	172.31.0.254	vpc-1a4c277f	ec2-54-149-118-31.us-west-2.comp...
52.26.83.37	i-b1a30d77 (server 2008)	172.31.1.254	vpc-1a4c277f	ec2-52-26-83-37.us-west-2.compute...
52.24.111.205			vpc	
54.68.60.231	i-c721bc02 (Cloud_HQ_WA...)	172.32.0.254	vpc-b97f09dc	
52.24.120.144	i-919e0254 (Cloud_HQ_Serv...)	172.32.1.254	vpc-b97f09dc	

Select an address above

associate address

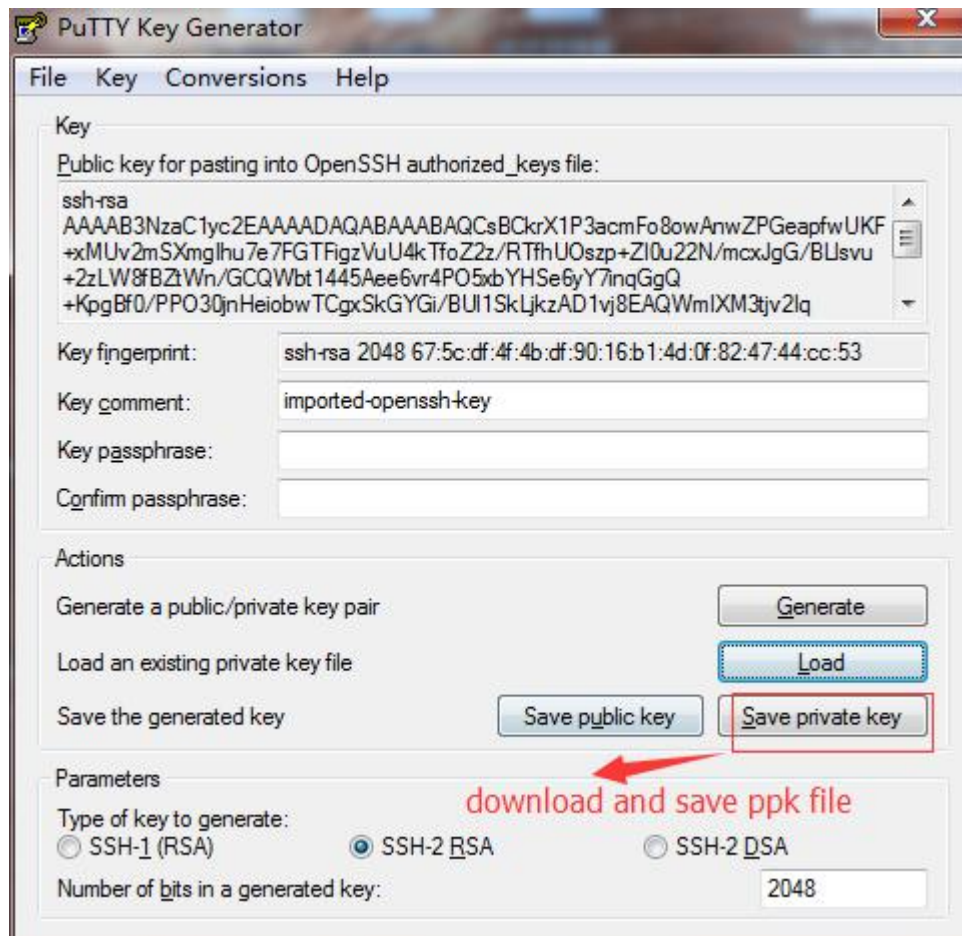


8、after associate address, we can use elastic IP visit WANO, but can't use admin/admin login.

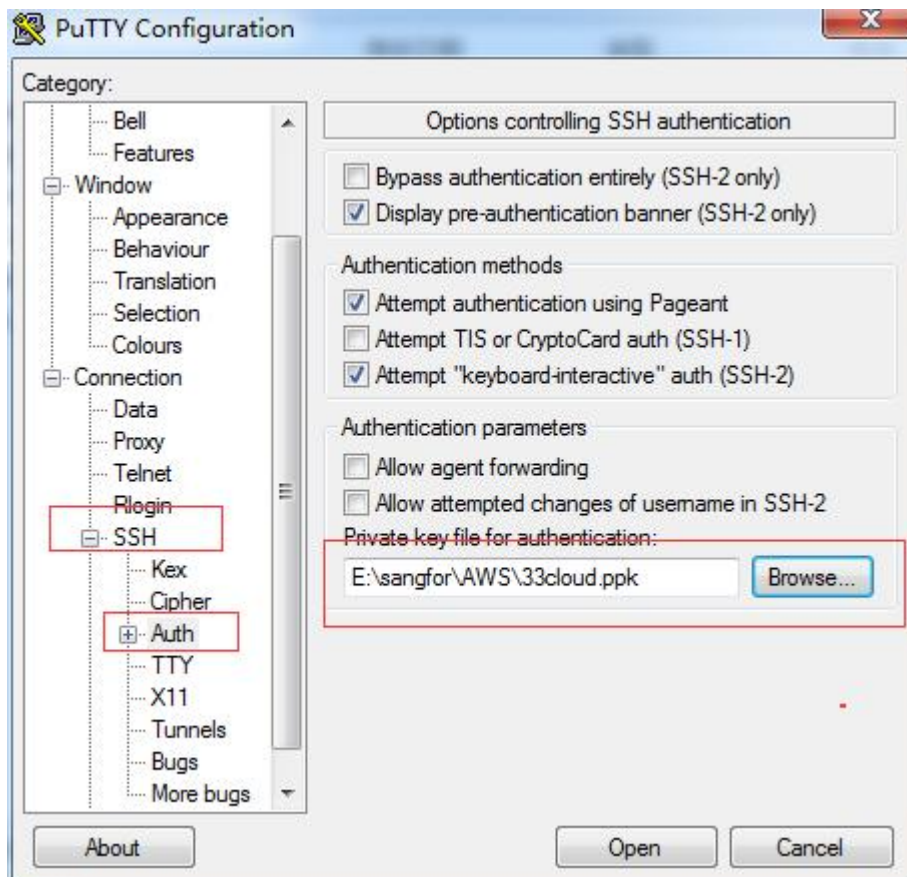
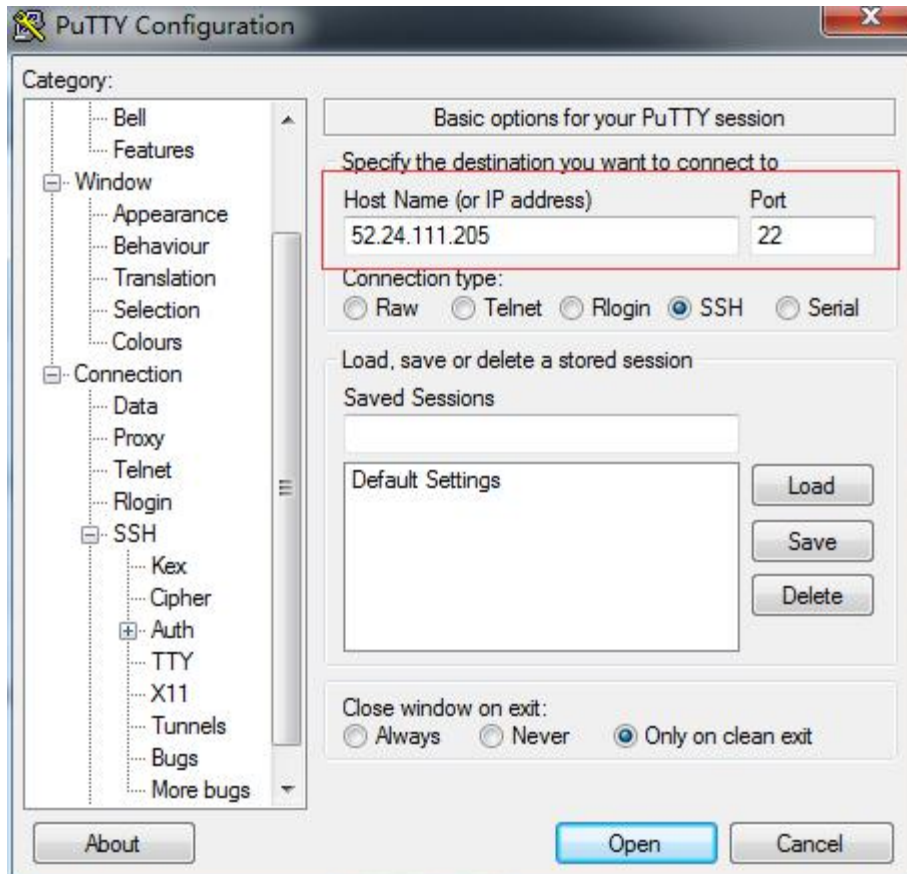


9、Use puttygen.exe format key pair

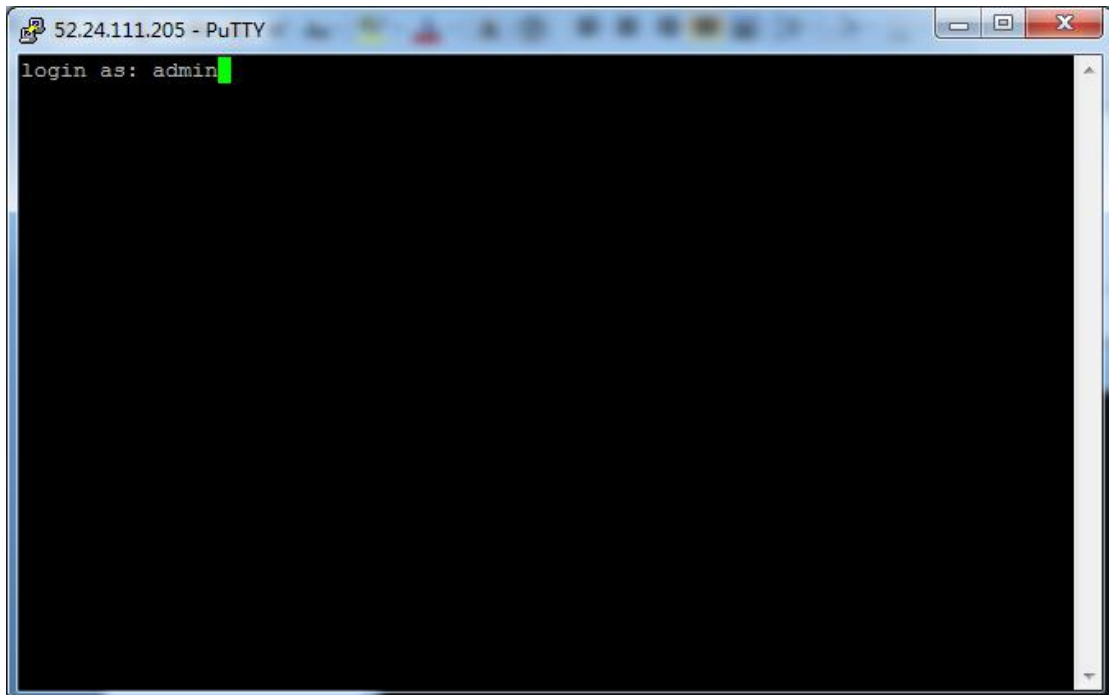




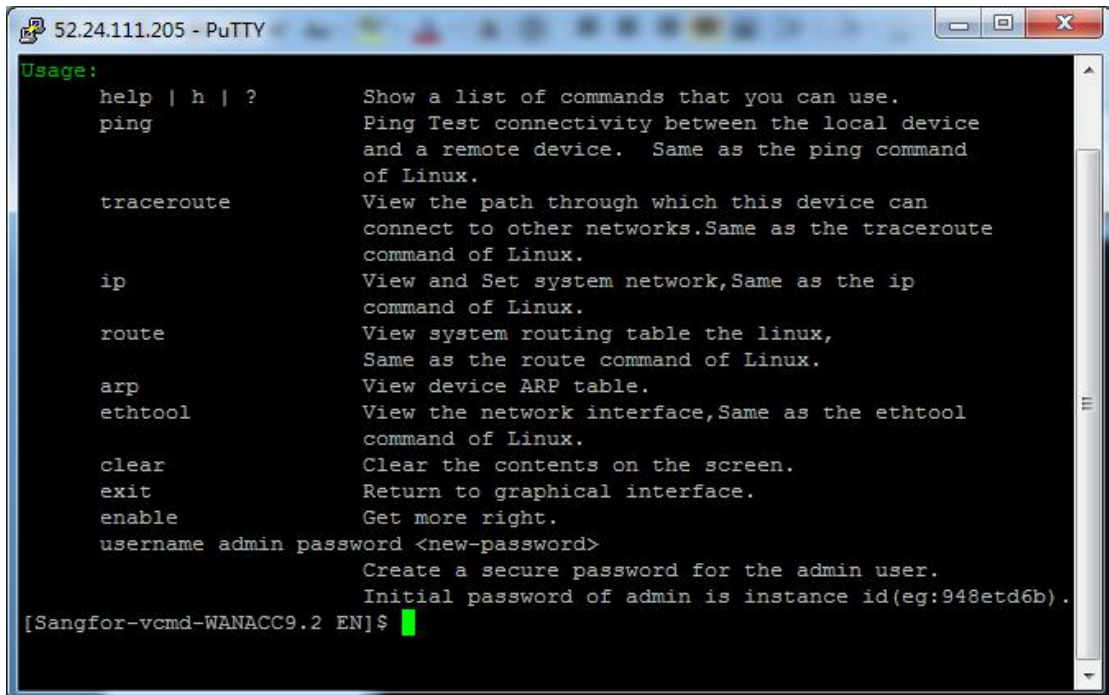
9、 Use ppk key pair connect instance.



login as admin, and then click enter



```
52.24.111.205 - PuTTY
login as: admin
```



```
52.24.111.205 - PuTTY
Usage:
help | h | ?      Show a list of commands that you can use.
ping             Ping Test connectivity between the local device
                and a remote device. Same as the ping command
                of Linux.
traceroute       View the path through which this device can
                connect to other networks.Same as the traceroute
                command of Linux.
ip               View and Set system network,Same as the ip
                command of Linux.
route            View system routing table the linux,
                Same as the route command of Linux.
arp              View device ARP table.
ethtool          View the network interface,Same as the ethtool
                command of Linux.
clear            Clear the contents on the screen.
exit             Return to graphical interface.
enable           Get more right.
username admin password <new-password>
                Create a secure password for the admin user.
                Initial password of admin is instance id(eg:948etd6b).
[Sangfor-vcmd-WANACC9.2 EN]$
```

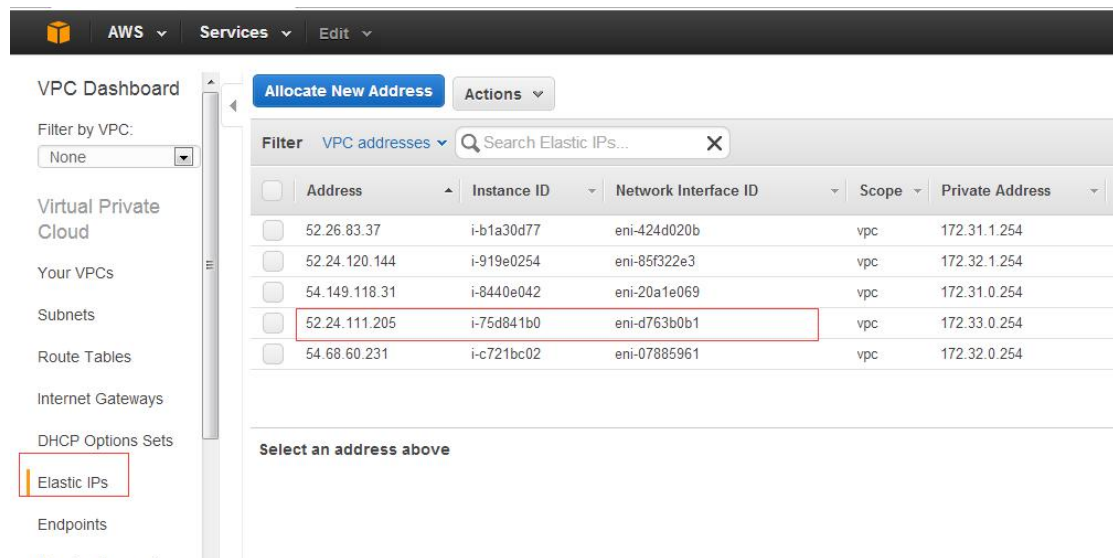
```

52.24.111.205 - PuTTY
Usage:
  help | h | ?      Show a list of commands that you can use.
  ping             Ping Test connectivity between the local device
                  and a remote device. Same as the ping command
                  of Linux.
  traceroute       View the path through which this device can
                  connect to other networks.Same as the traceroute
                  command of Linux.
  ip               View and Set system network,Same as the ip
                  command of Linux.
  route            View system routing table the linux,
                  Same as the route command of Linux.
  arp              View device ARP table.
  ethtool          View the network interface,Same as the ethtool
                  command of Linux.
  clear            Clear the contents on the screen.
  exit             Return to graphical interface.
  enable           Get more right.
  username admin password <new-password>
                  Create a secure password for the admin user.
                  Initial password of admin is instance id(eg:948etd6b).
[Sangfor-vcmd-WANACC9.2 EN]$ username admin password sangfor
[Sangfor-vcmd-WANACC9.2 EN]$

```

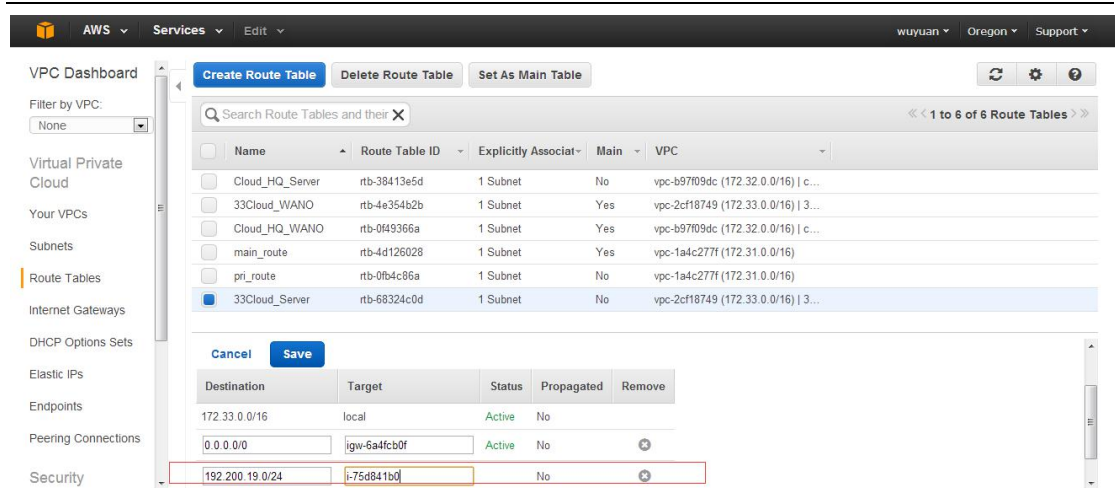
we can use 'username admin password xxx' change admin password , and use this account login webui

10、 After vWANO created , we need to add route to other side subnet next gateway is vWANO. We can find this vWANO instance ID is i-75d841b0



Address	Instance ID	Network Interface ID	Scope	Private Address
52.26.83.37	i-b1a30d77	eni-424d020b	vpc	172.31.1.254
52.24.120.144	i-919e0254	eni-85f322e3	vpc	172.32.1.254
54.149.118.31	i-8440e042	eni-20a1e069	vpc	172.31.0.254
52.24.111.205	i-75d841b0	eni-d763b0b1	vpc	172.33.0.254
54.68.60.231	i-c721bc02	eni-07885961	vpc	172.32.0.254

add route in server subnet route table



VPC Dashboard

Filter by VPC: None

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Peering Connections

Security

Create Route Table **Delete Route Table** **Set As Main Table**

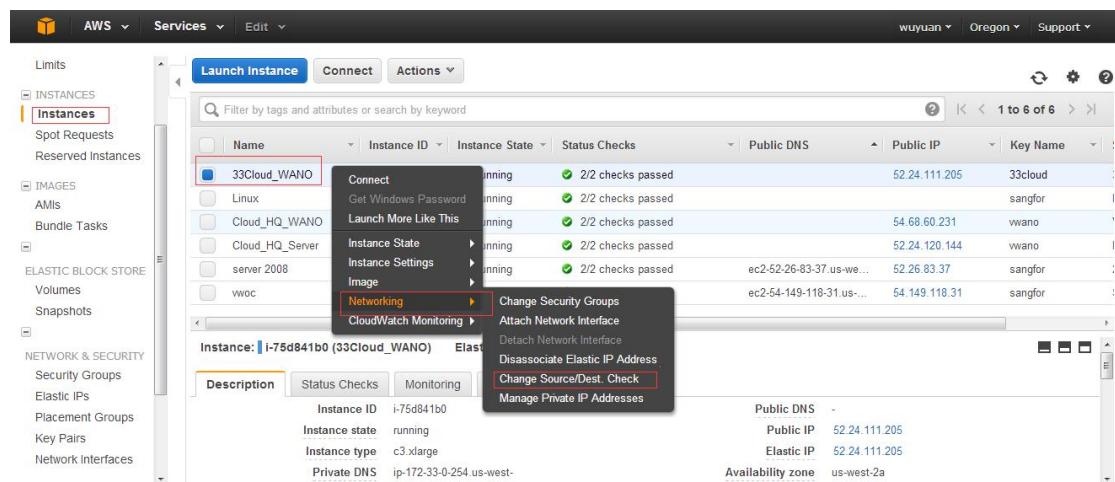
Search Route Tables and their X

Name	Route Table ID	Explicitly Associat	Main	VPC
Cloud_HQ_Server	rtb-38413e5d	1 Subnet	No	vpc-b97099dc (172.32.0.0/16) c...
33Cloud_WANO	rtb-4e354b2b	1 Subnet	Yes	vpc-2cf18749 (172.33.0.0/16) 3...
Cloud_HQ_WANO	rtb-049366a	1 Subnet	Yes	vpc-b97099dc (172.32.0.0/16) c...
main_route	rtb-4d126028	1 Subnet	Yes	vpc-1a4c277f (172.31.0.0/16)
pri_route	rtb-0b4c86a	1 Subnet	No	vpc-1a4c277f (172.31.0.0/16)
33Cloud_Server	rtb-68324c0d	1 Subnet	No	vpc-2cf18749 (172.33.0.0/16) 3...

Cancel **Save**

Destination	Target	Status	Propagated	Remove
172.33.0.0/16	local	Active	No	
0.0.0.0/0	igw-6a4fcb0f	Active	No	⊗
192.200.19.0/24	i-75d841b0	No		⊗

11、disable change Source/Dest check



AWS **Services** **Edit** wuyuan Oregon Support

Launch Instance **Connect** **Actions**

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance State	Status Checks	Public DNS	Public IP	Key Name
33Cloud_WANO	i-75d841b0	running	2/2 checks passed		52.24.111.205	33cloud
Linux		running	2/2 checks passed			sangfor
Cloud_HQ_WANO		running	2/2 checks passed		54.68.60.231	wano
Cloud_HQ_Server		running	2/2 checks passed		52.24.120.144	wano
server 2008		running	2/2 checks passed	ec2-52-26-83-37.us-we...	52.26.83.37	sangfor
woc		running	2/2 checks passed	ec2-54-149-118-31.us-...	54.149.118.31	sangfor

Instance: i-75d841b0 (33Cloud_WANO) Elast

Description **Status Checks** **Monitoring**

- Connect
- Get Windows Password
- Launch More Like This
- Instance State
- Instance Settings
- Image
- Networking**
 - Change Security Groups
 - Attach Network Interface
 - Detach Network Interface
 - Disassociate Elastic IP Address
 - Change Source/Dest. Check**
 - Manage Private IP Addresses
- CloudWatch Monitoring

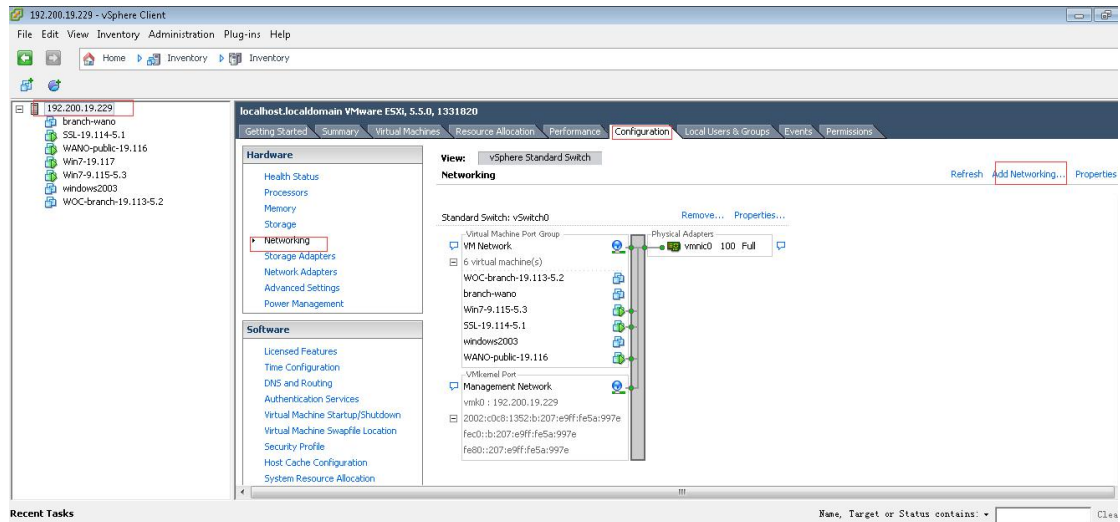
Description

Instance ID	Instance state	Instance type	Private DNS	Public DNS	Public IP	Elastic IP	Availability zone
i-75d841b0	running	c3.xlarge	ip-172-33-0-254.us-west-	-	52.24.111.205	52.24.111.205	us-west-2a

This is a security policy ,if enable this function, instance will drop packets after check source/dest ip

vWANO in VMware

1、Add virtual switch



192.200.19.229 - vSphere Client

File Edit View Inventory Administration Plug-ins Help

Home Inventory Inventory

192.200.19.229

- branch-wano
- SSL-19.114-5.1
- WANO-public-19.116
- Win7-19.117
- Win7-9.115-5.3
- windows2003
- WOC-brand-19.113-5.2

localhost.localdomain VMware ESXi, 5.5.0, 1331820

Getting Started Summary Virtual Machines Resource Allocation Performance Configuration Local Users & Groups Events Permissions

View: vSphere Standard Switch Refresh Add Networking... Properties

Hardware

- Health Status
- Processors
- Memory
- Storage
- Networking
- Storage Adapters
- Network Adapters
- Advanced Settings
- Power Management

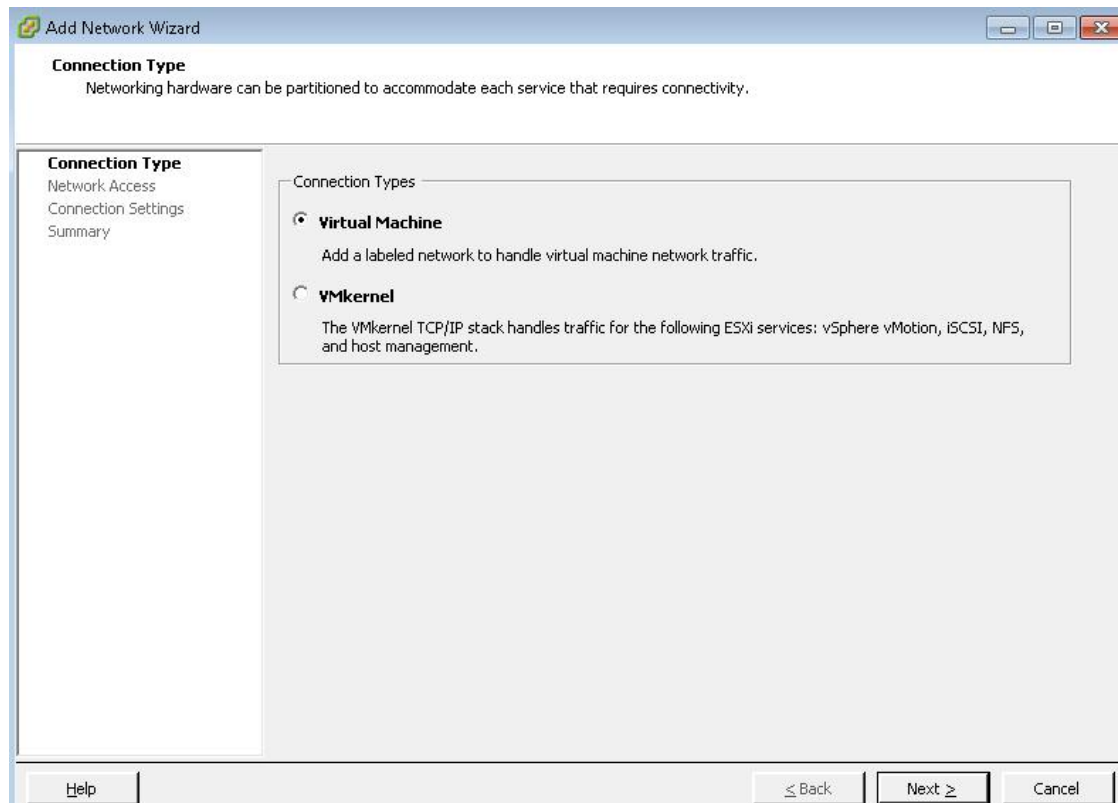
Software

- Licensed Features
- Time Configuration
- DNS and Routing
- Authentication Services
- Virtual Machine Startup/Shutdown
- Virtual Machine Swapfile Location
- Security Profile
- Host Cache Configuration
- System Resource Allocation

Standard Switch: vSwitch0 Remove... Properties...

- Virtual Machine Port Group
 - VM Network
 - 6 virtual machine(s)
 - WOC-brand-19.113-5.2
 - branch-wano
 - Win7-9.115-5.3
 - SSL-19.114-5.1
 - windows2003
 - WANO-public-19.116
 - VMkernel Port
 - Management Network
 - vmnic0 : 192.200.19.229
 - 2002:c0b8:1352:b:207:e9ff:fe5a:997e
 - fec0:bc207:e9ff:fe5a:997e
 - fe80:bc207:e9ff:fe5a:997e
 - Physical Adapters
 - vmnic0 100 Full

Recent Tasks Name, Target or Status contains: Clear



Add Network Wizard

Connection Type

Networking hardware can be partitioned to accommodate each service that requires connectivity.

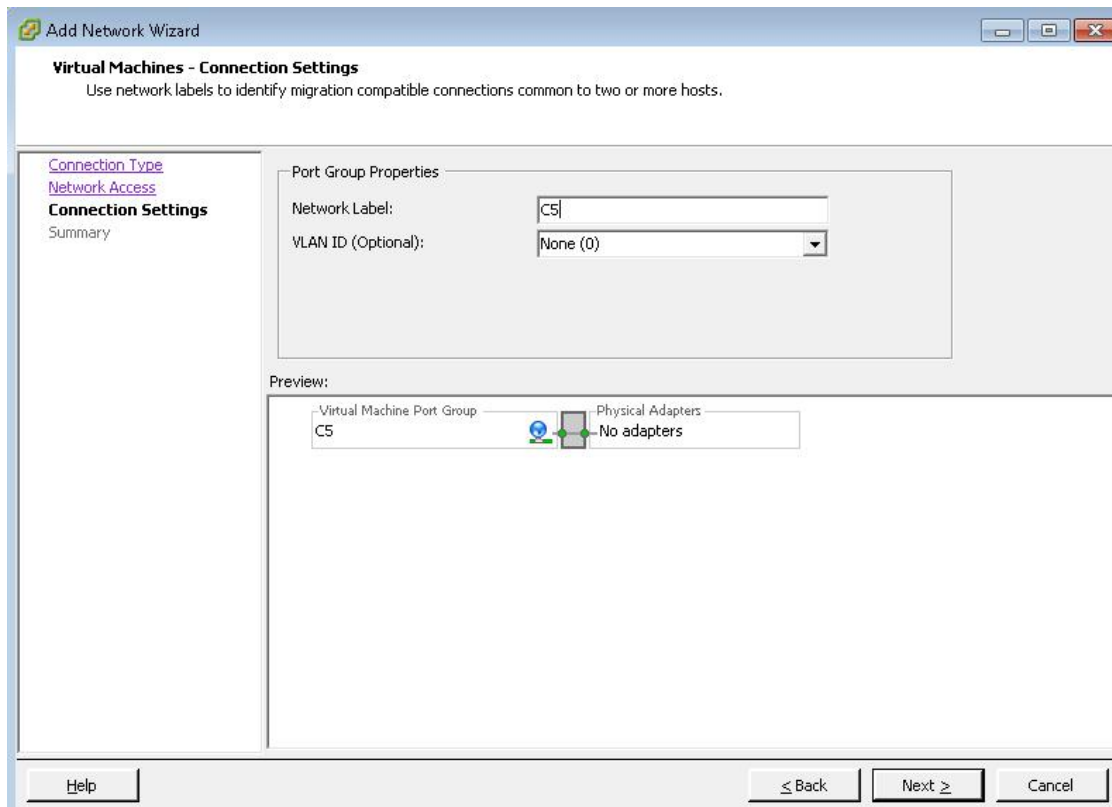
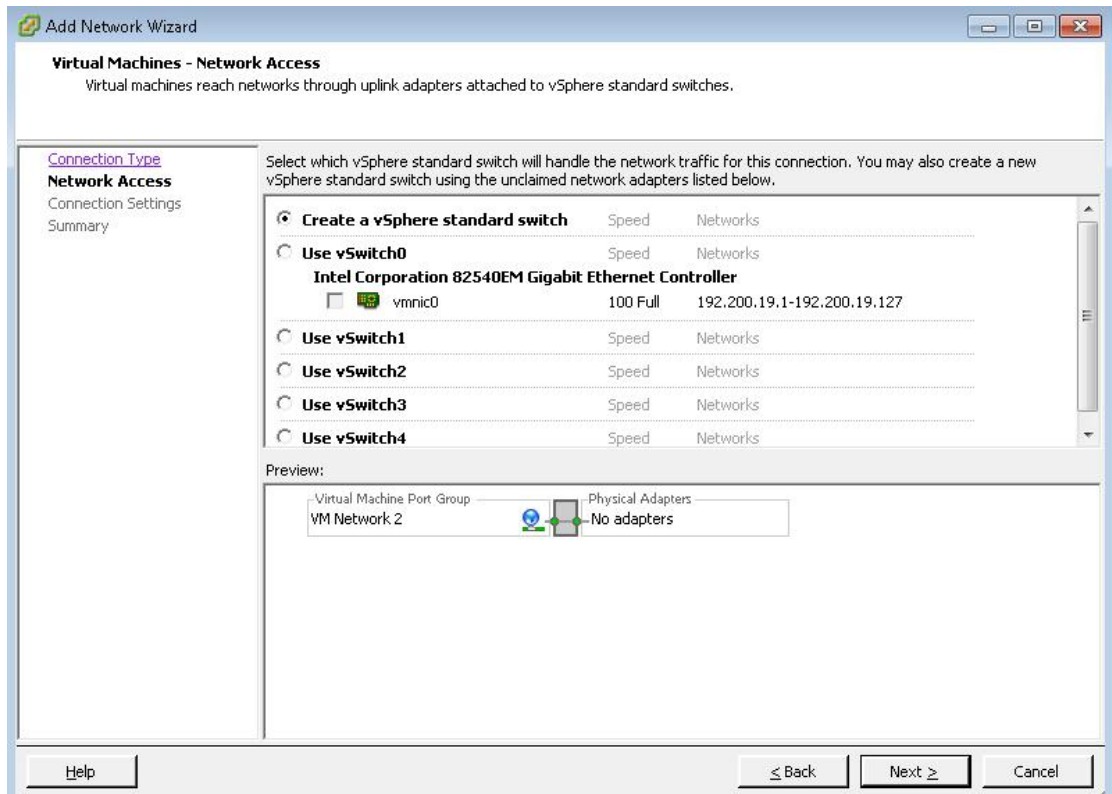
Connection Type

- Network Access
- Connection Settings
- Summary

Connection Types

- Virtual Machine**
Add a labeled network to handle virtual machine network traffic.
- VMkernel**
The VMkernel TCP/IP stack handles traffic for the following ESXi services: vSphere vMotion, iSCSI, NFS, and host management.

Help < Back Next > Cancel



modify switch properties, enable promiscuous mode

localhost.localdomain VMware ESXi, 5.5.0, 1331820

Getting Started | Summary | Virtual Machines | Resource Allocation | Performance | Configuration | Local Users & Groups | Events | Permissions

Health Status
Processors
Memory
Storage
▶ Networking
Storage Adapters
Network Adapters
Advanced Settings
Power Management

Software
Licensed Features
Time Configuration
DNS and Routing
Authentication Services
Virtual Machine Startup/Shutdown
Virtual Machine Swapfile Location
Security Profile
Host Cache Configuration
System Resource Allocation
Agent VM Settings
Advanced Settings

Networking

WOC-branch-19.113-5.2
Win7-9.115-5.3
Win7-19.117
WANO-public-19.116

Standard Switch: vSwitch3 [Remove...](#) [Properties...](#)

Virtual Machine Port Group: C3
Physical Adapters: No adapters

1 virtual machine(s)
branch-wano

Standard Switch: vSwitch4 [Remove...](#) [Properties...](#)

Virtual Machine Port Group: C4
Physical Adapters: No adapters

Standard Switch: vSwitch5 [Remove...](#) [Properties...](#)

Virtual Machine Port Group: C5
Physical Adapters: No adapters

vSwitch5 Properties

Ports | Network Adapters

Configuration	Summary
vSwitch	120 Ports
C5	Virtual Machine ...

Add... [Edit...](#) Remove

vSphere
Nur
Advanc
MTU:
Default
Security
Prom
MAC
Forge
Traffic
Aver
Peak
Burst
Failov
Load
Netw
Notif
Failbe
Activ

vSwitch5 Properties

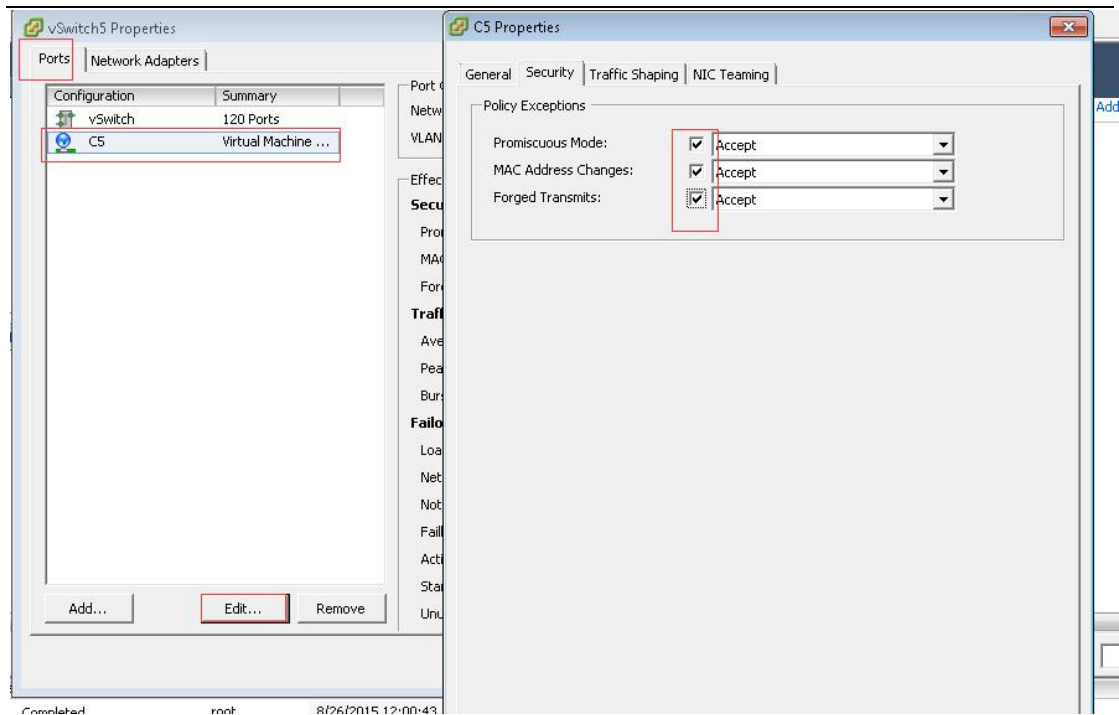
General | **Security** | Traffic Shaping | NIC Teaming

Policy Exceptions

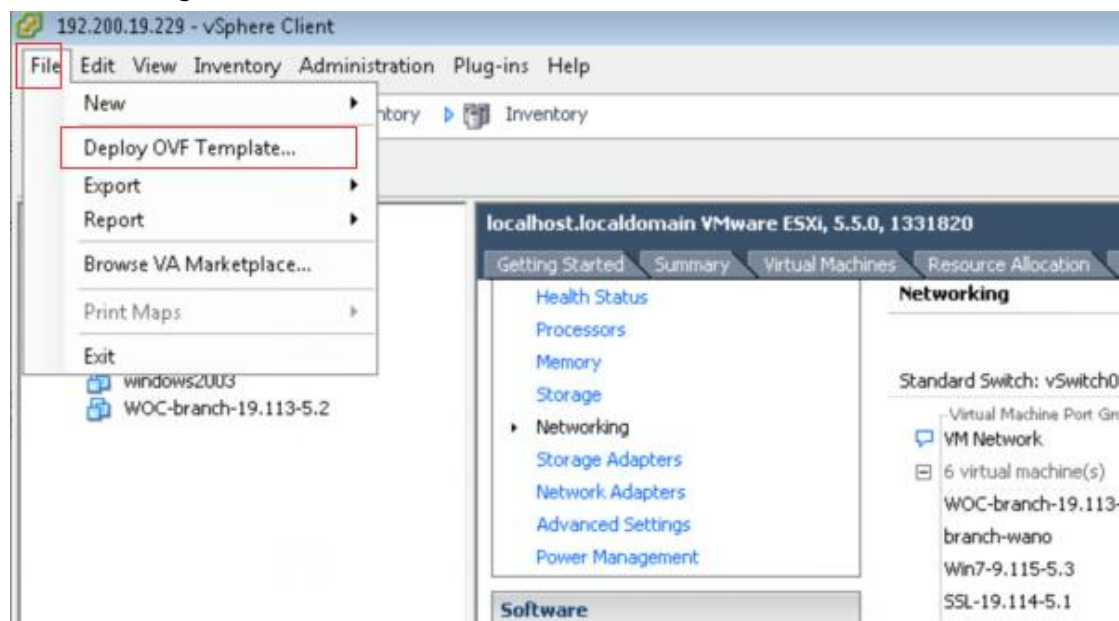
Promiscuous Mode:

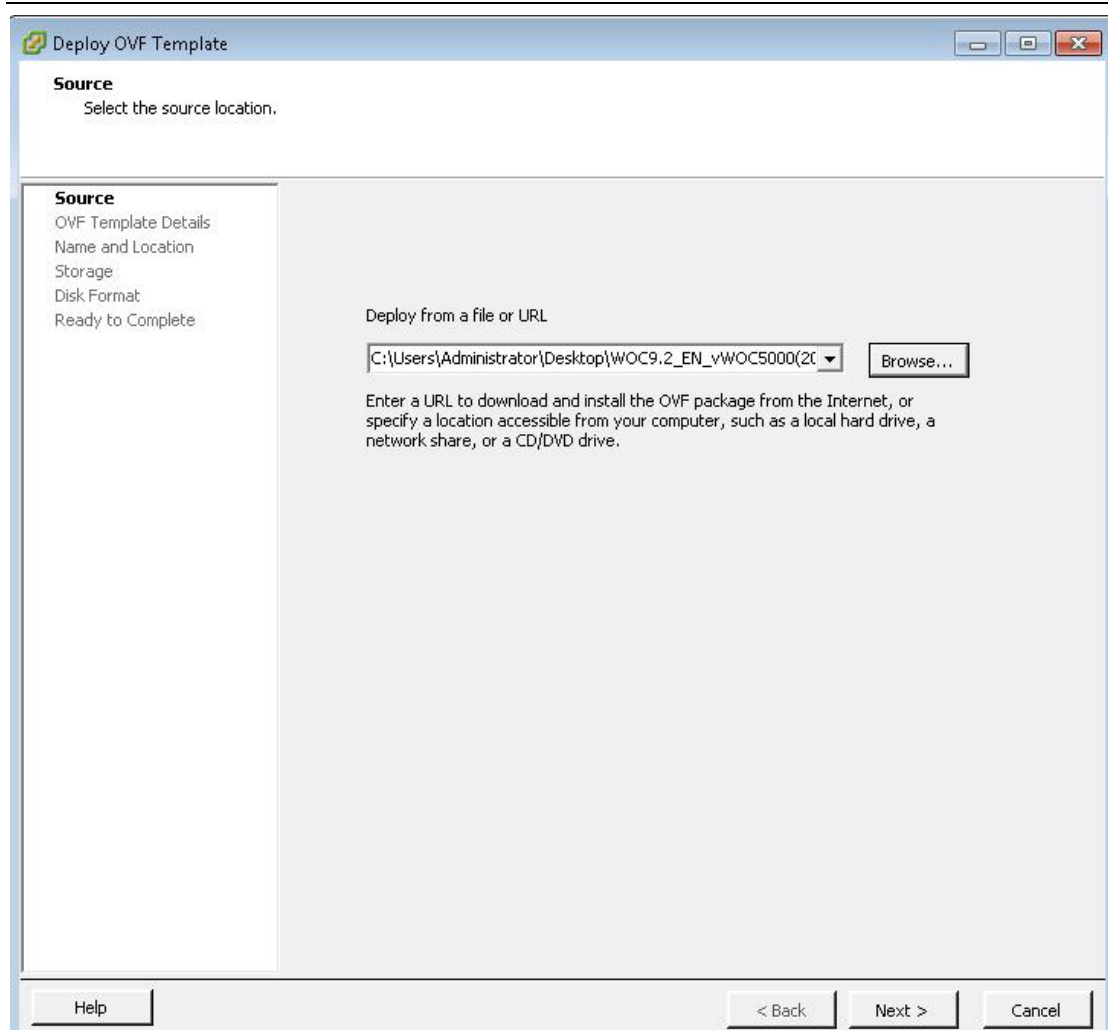
MAC Address Changes:

Forged Transmits:



2、【File】>【Deploy OVF Template】>【upload vWANO ova file】>【Set virtual machine name】>【choose storage】>【choose network】>【finish】







Name and Location

Specify a name and location for the deployed template

[Source](#)
[OVF Template Details](#)
Name and Location
[Storage](#)
Disk Format
Network Mapping
Ready to Complete

Name:

The name can contain up to 80 characters and it must be unique within the inventory folder.

Help < Back Next > Cancel



Deploy OVF Template

Storage
Where do you want to store the virtual machine files?

[Source](#)
[OVF Template Details](#)
[Name and Location](#)

Storage
Disk Format
Network Mapping
Ready to Complete

Select a destination storage for the virtual machine files:

Name	Drive Type	Capacity	Provisioned	Free	Type	Thin Provis
1TB	Non-SSD	931.25 GB	649.36 GB	281.89 GB	VMFS5	Supporte
datastore1	SSD	216.00 GB	973.00 MB	215.05 GB	VMFS5	Supporte

Disable Storage DRS for this virtual machine

Select a datastore:

Name	Drive Type	Capacity	Provisioned	Free	Type	Thin Provis
------	------------	----------	-------------	------	------	-------------

Help ≤ Back Next ≥ Cancel



Deploy OVF Template

Network Mapping
What networks should the deployed template use?

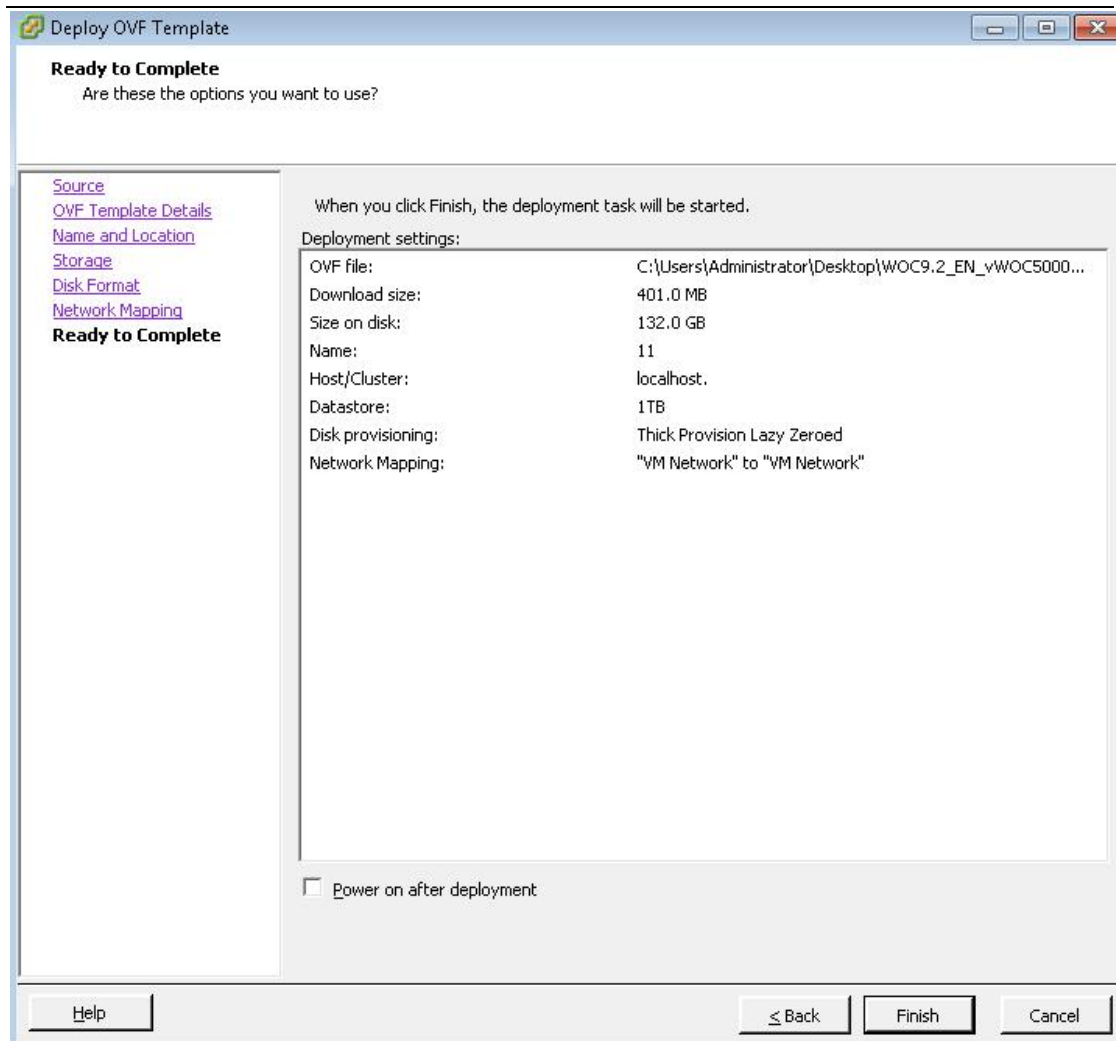
[Source](#)
[OVF Template Details](#)
[Name and Location](#)
[Storage](#)
[Disk Format](#)
Network Mapping
Ready to Complete

Map the networks used in this OVF template to networks in your inventory

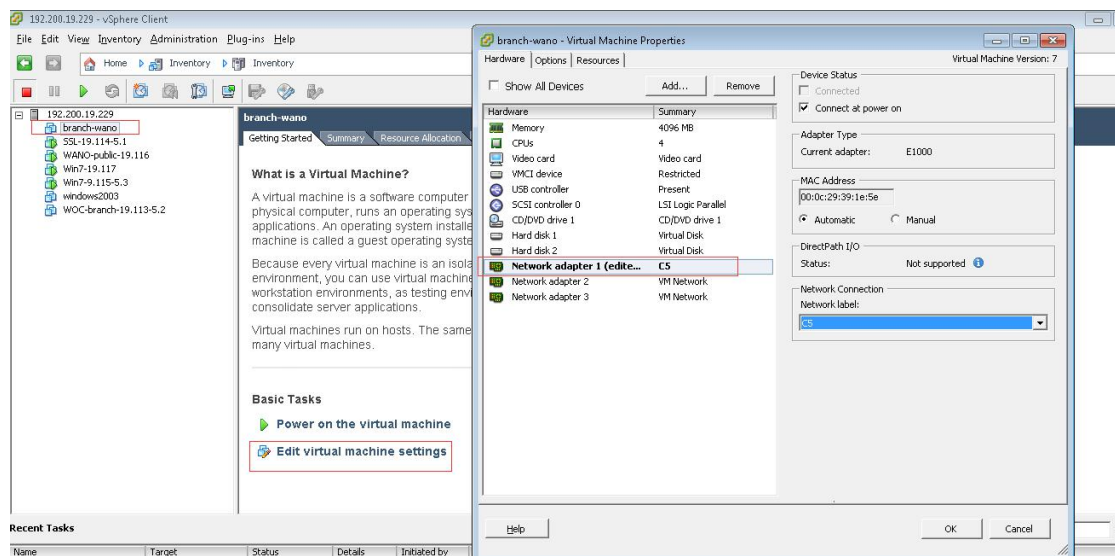
Source Networks	Destination Networks
VM Network	VM Network

Description:
The VM Network network

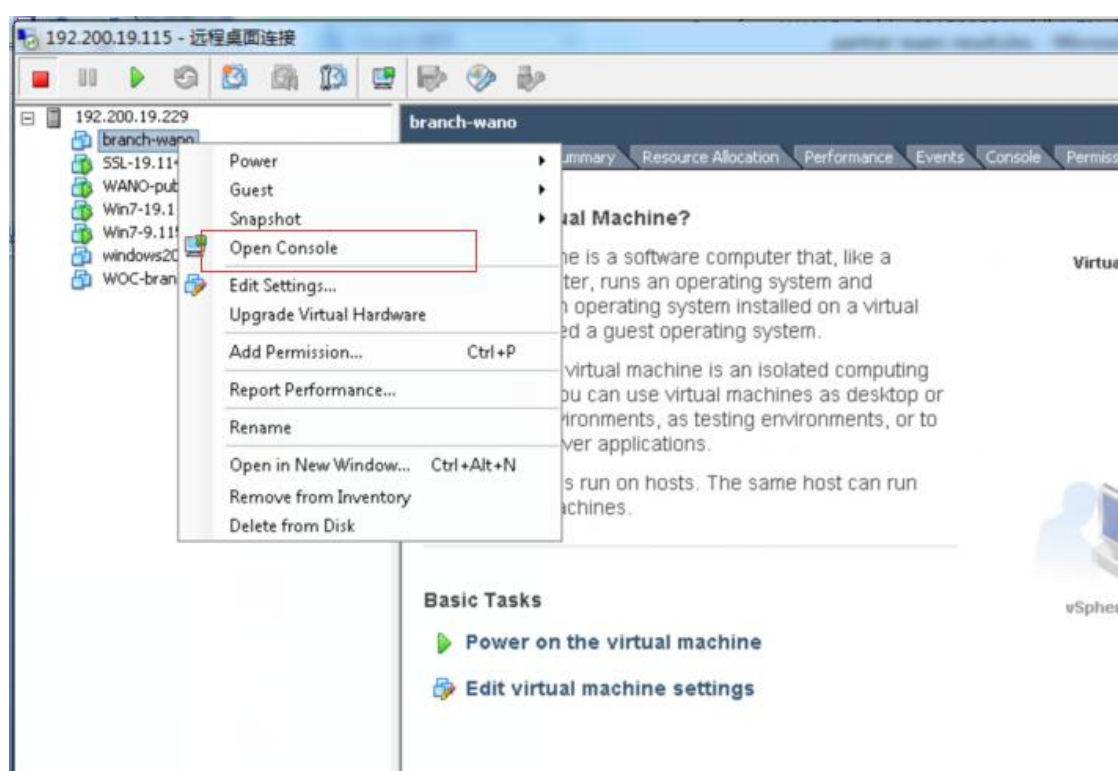
Help ≤ Back Next ≥ Cancel



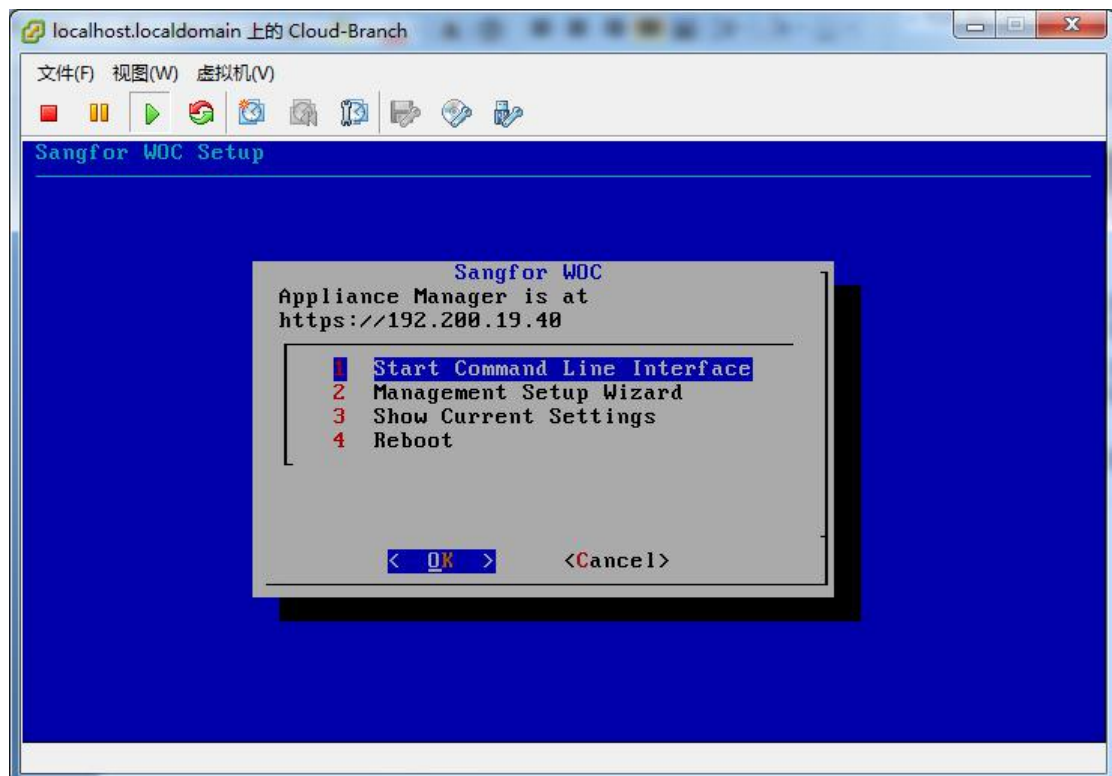
3、 Edit network adapter location, adapter 1 is LAN interface , adapter 2 is DMZ interface, adapter 3 is WAN interface



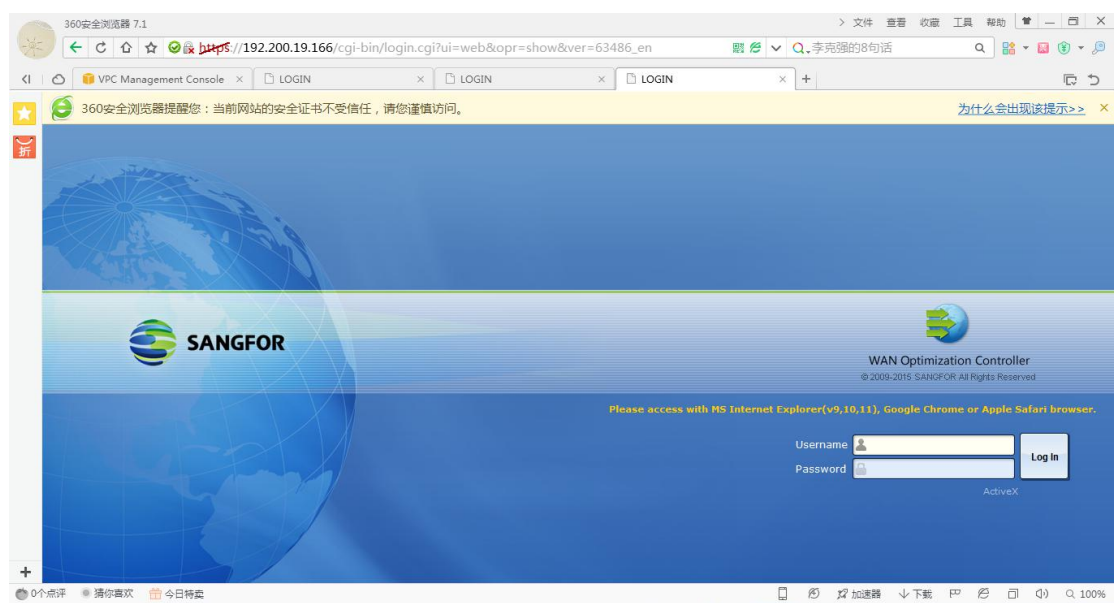
4、 power on vWANO, and open console



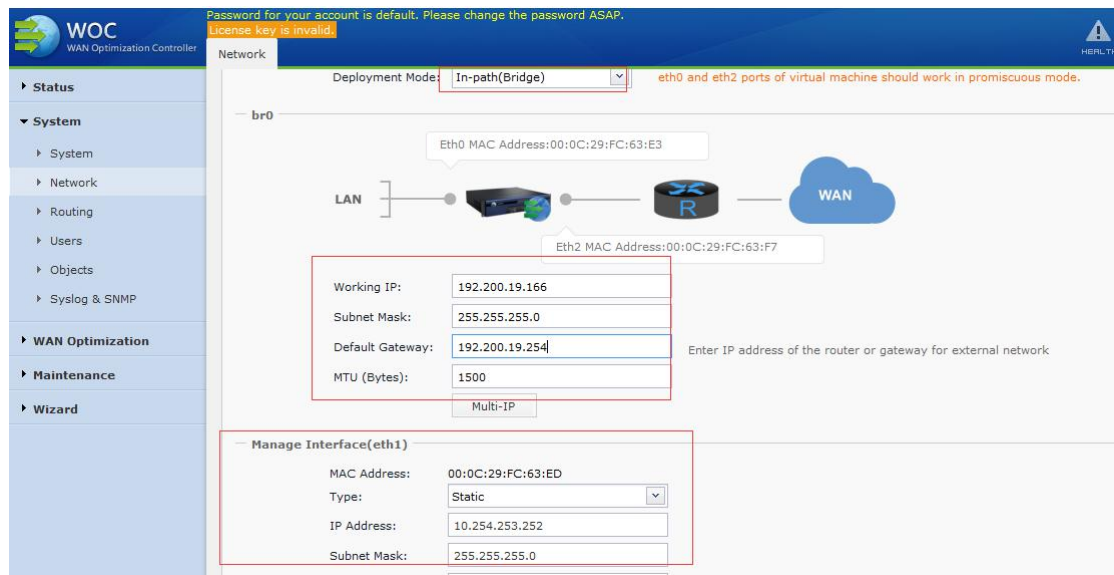
5、DMZ interface will auto get IP from DHCP server, if get IP fail, we can set a static IP by choose 2



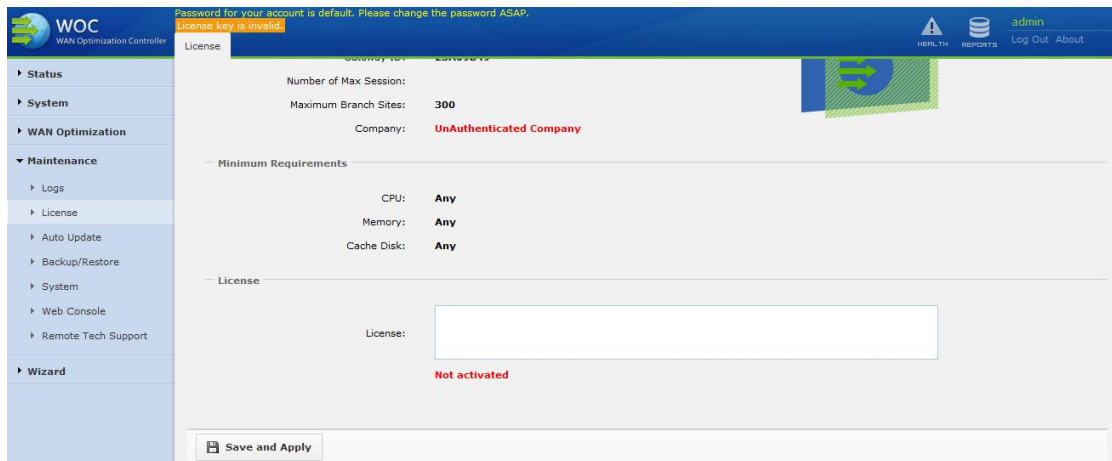
6、 Use <https://192.200.19.166> admin/admin access into WEBUI



7、Modify network ,choose bridge mode, and change work IP to 192.200.19.166, and DMZ IP to other



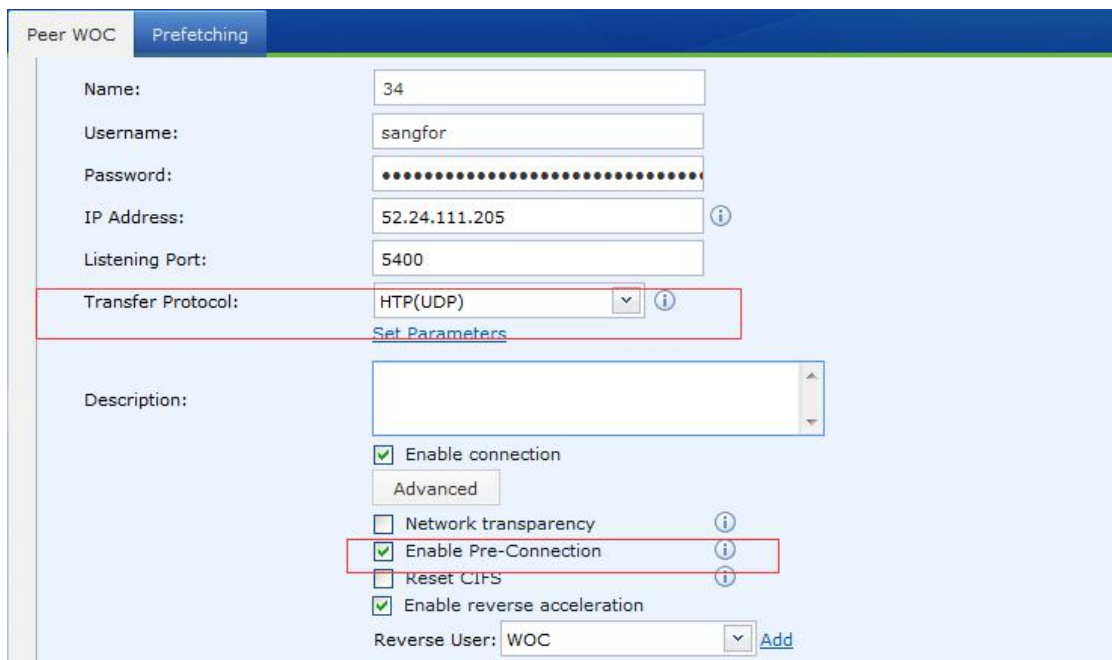
8、Get test license for a month, All southeast Asian customer send contacts, phone number, email, company name to vincent@sangfor.com (apply earlier)



9、 other acceleration configuration

such as local subnet / WAN optimization client and so on

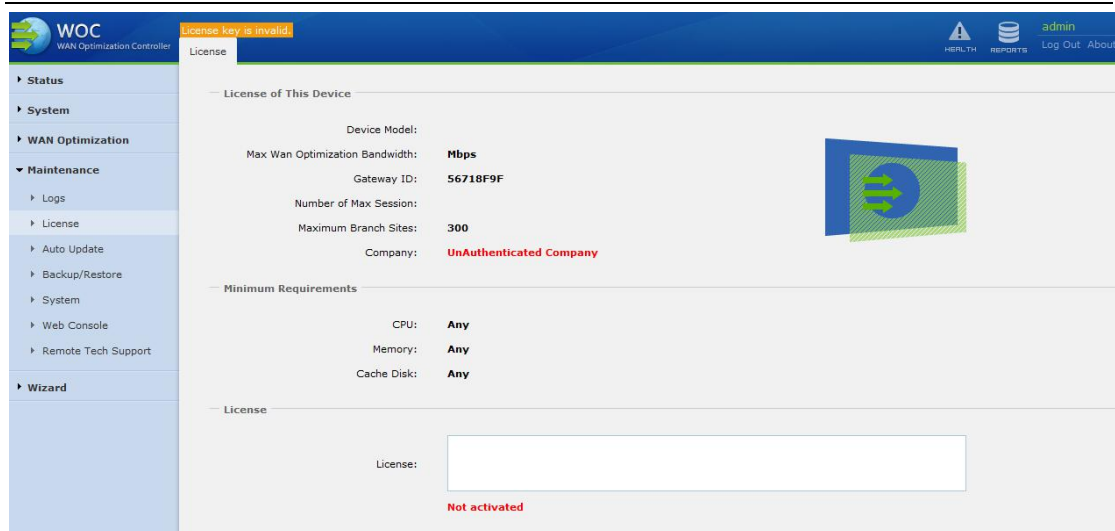
Note: build acceleration tunnel with cloud vWANO must use HTP(UDP) and enable Pre-Connection



10、 Modify other virtual server network , change server adapter to vWANO LAN interface switch.

Configure vWANO

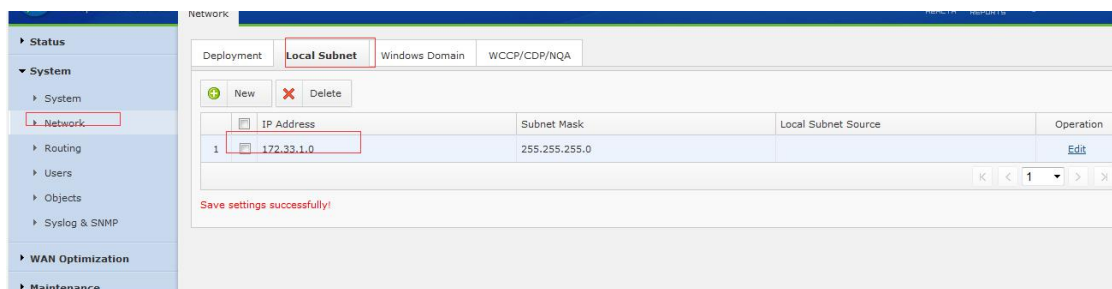
- 1、 Use https://public IP access into vWANO webui
- 2、 Get license, All south east Asia customer send Contacts name/Phone number/Company name/Email address to vincent@sangfor.com (early apply)



3、Configure local subnet

In this Case server sbunet is 172.33.1.0/24 and not in WANO subnet, so need to add to local subnet.

Branch PC in WANO subnet, so no need to add to local subnet.

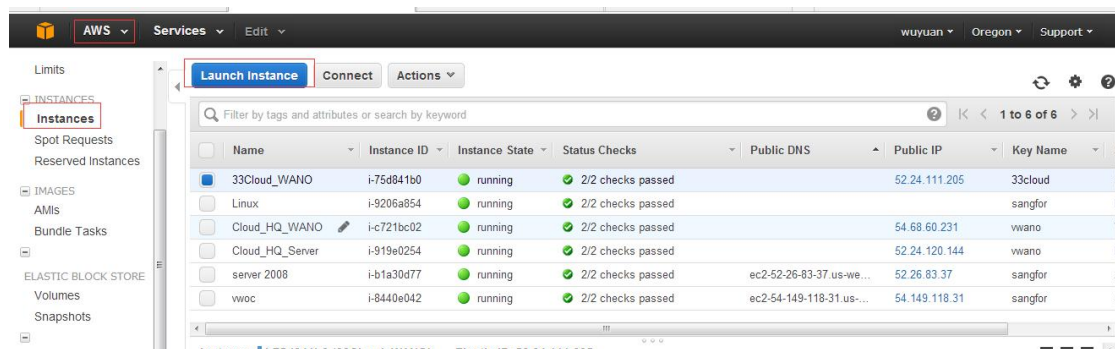


4、Other acceleration configuration

Such as acceleration account ,acceleration policy and so on.

Server in AWS

1、Launch instance



1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Tag Instance
6. Configure Security Group
7. Review

Step 1: Choose an Amazon Machine Image (AMI)

[Cancel and Exit](#)

OS	AMI Name	Architecture	Root device type	Virtualization type	Bitness	Action
Windows	Microsoft Windows Server 2012 with SQL Server Web - ami-c36557f3	64-bit architecture, Microsoft SQL Server 2012 Web edition. [English]	ebs	hvm	64-bit	Select
Windows	Microsoft Windows Server 2012 with SQL Server Standard - ami-27595b17	Microsoft Windows Server 2012 Standard edition, 64-bit architecture, Microsoft SQL Server 2012 Standard edition. [English]	ebs	hvm	64-bit	Select
Windows	Microsoft Windows Server 2008 R2 Base - ami-937173a3	Microsoft Windows 2008 R2 SP1 Datacenter edition, 64-bit architecture. [English]	ebs	hvm	64-bit	Select
Windows	Microsoft Windows Server 2008 R2 with SQL Server Express and IIS - ami-47747677	Microsoft Windows Server 2008 R2 SP1 Datacenter edition, 64-bit architecture, Microsoft SQLServer 2008 Express, Internet Information Services 7, ASP.NET 3.5. [English]	ebs	hvm	64-bit	Select

2、choose

AWS Services Edit wuyuan Oregon Support

1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Tag Instance
6. Configure Security Group
7. Review

Step 2: Choose an Instance Type

Amazon 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 for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
<input checked="" type="checkbox"/>	General purpose	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate

Cancel Previous **Review and Launch** Next: Configure Instance Details

3、Configure instance details

AWS Services Edit wuyuan Oregon Support

1. Choose AMI
2. Choose Instance Type
3. Configure Instance
4. Add Storage
5. Tag Instance
6. Configure Security Group
7. Review

Step 3: Configure Instance Details

to the instance, and more.

Number of instances:

Purchasing option: Request Spot Instances

Network: [Create new VPC](#)

Subnet: [Create new subnet](#)
261 IP Addresses available

Auto-assign Public IP:

Domain join directory: [Create new directory](#)

IAM role: [Create new IAM role](#)

Shutdown behavior:

Cancel Previous **Review and Launch** Next: Add Storage

Step 3: Configure Instance Details

Enable termination protection Protect against accidental termination
 Monitoring Enable CloudWatch detailed monitoring
Additional charges apply.
 Tenancy Shared tenancy (multi-tenant hardware)
Additional charges will apply for dedicated tenancy.

Network interfaces

Device	Network Interface	Subnet	Primary IP	Secondary IP addresses
eth0	New network interface	subnet-9791d0f	172.33.1.254	Add IP

4、 Other configuration can keep default and run instance.

5、 Allocate elastic IPS

Allocate New Address

Elastic IP	Instance	Private IP Address	Scope	Public DNS
<input type="checkbox"/> 54.149.118.31	i-8440e042 (wvoc)	172.31.0.254	vpc-1a4c277f	ec2-54-149-118-31.us-west-2.comp.
<input type="checkbox"/> 52.26.83.37	i-b1a30d77 (server 2008)	172.31.1.254	vpc-1a4c277f	ec2-52-26-83-37.us-west-2.compute
<input type="checkbox"/> 52.24.120.144	i-919e0254 (Cloud_HQ_Serv...	172.32.1.254	vpc-b97f09dc	
<input type="checkbox"/> 54.68.60.231	i-c721bc02 (Cloud_HQ_WA...	172.32.0.254	vpc-b97f09dc	
<input type="checkbox"/> 52.24.111.205	i-75d841b0 (33Cloud_WANO)	172.33.0.254	vpc-2cf18749	

Select an address above

搜索 复制

6、 Back to instance and connect to server, Use key pair to get administrator and then remote desktop to server

Launch Instance Connect

Name	Instance ID	Instance State	Status Checks	Public DNS	Public IP	Key Name
33Cloud_WANO	i-75d841b0	running	2/2 checks passed		52.24.111.205	33cloud
Linux	i-9206a854	running	2/2 checks passed			sangfor
Cloud_HQ_WANO	i-c721bc02	running	2/2 checks passed		54.68.60.231	wvano
Cloud_HQ_Server	i-919e0254	running	2/2 checks passed		52.24.120.144	wvano
server 2008	i-b1a30d77	running	2/2 checks passed	ec2-52-26-83-37.us-we...	52.26.83.37	sangfor
wvoc	i-8440e042	running	2/2 checks passed	ec2-54-149-118-31.us-...	54.149.118.31	sangfor

Instance: i-b1a30d77 (server 2008) Elastic IP: 52.26.83.37

Description Status Checks Monitoring Tags

Connect To Your Instance ✕

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

[Download Remote Desktop File](#)

When prompted, connect to your instance using the following details:

Elastic IP	52.26.83.37
User name	Administrator
Password	Get Password

If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.
If you need any assistance connecting to your instance, please see our [connection documentation](#).

[Close](#)

Connect To Your Instance ✕

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

[Download Remote Desktop File](#)

When prompted, connect to your instance using the following details:

Elastic IP	52.26.83.37
User name	Administrator
Password	A=HY2VBmo.;

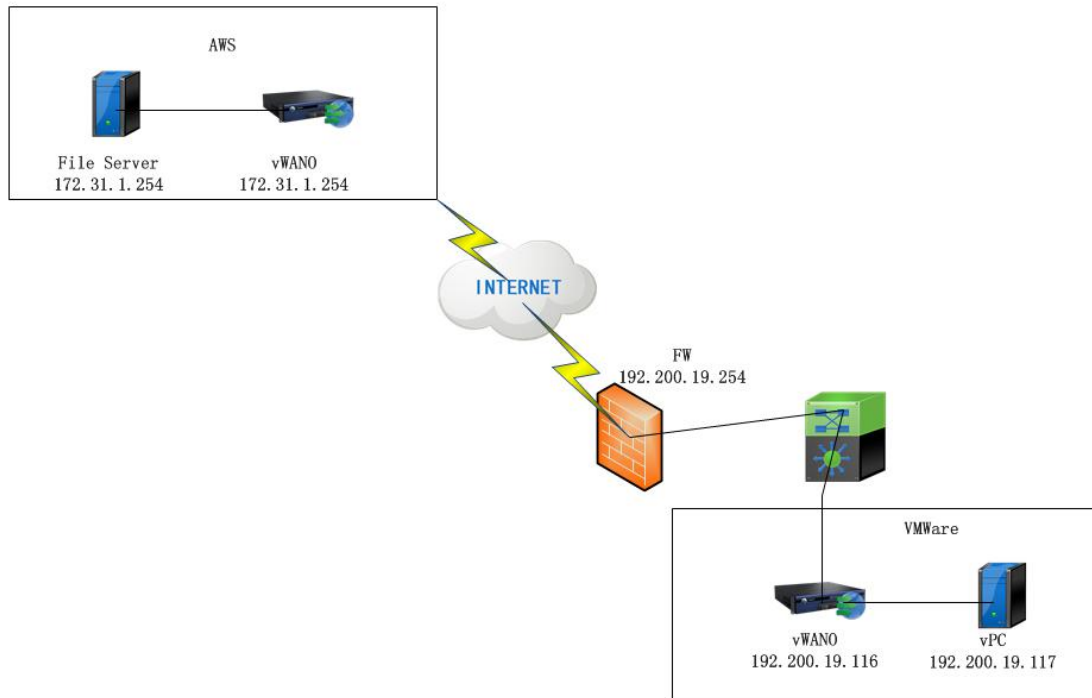
If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.
If you need any assistance connecting to your instance, please see our [connection documentation](#).

[Close](#)

7、 After get the password ,customer can deploy their server as normal.

Actually test:

Local vWANO/WANO build acceleration tunnel with AWS cloud vWANO by elastic IP

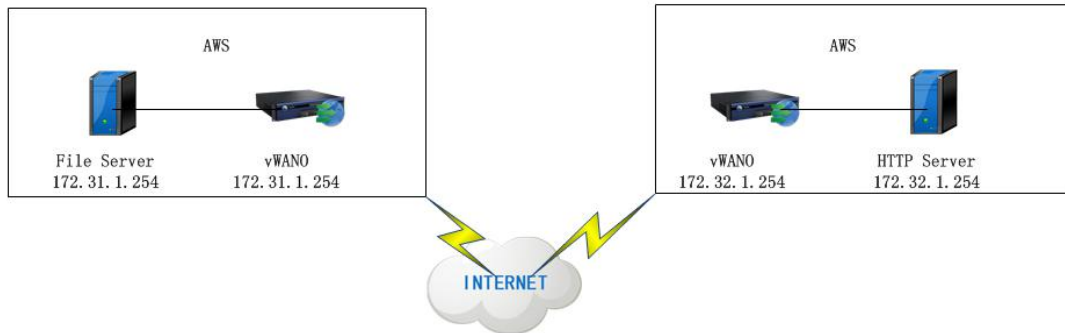


In this solution, Server deployed in AWS and AWS vWANO as HQ, branch vWANO deployed as bridge mode.

HQ : create a acceleration account, acceleration policy, local subnet, server route table add route destination to branch next gateway to HQ vWANO

Branch: Use HTP(udp) transfer to build acceleration tunnel with HQ and enable Pre-connection and add local subnet

AWS cloud vWANO build acceleration tunnel with AWS cloud vWANO by elastic IP

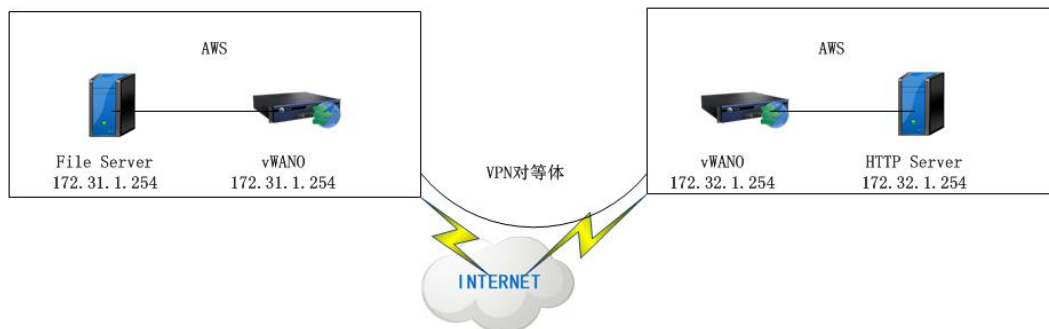


In this solution we can define one side is HQ and other side is branch

HQ : create a acceleration account, acceleration policy, local subnet, server route table add route destination to branch next gateway to HQ vWANO

Branch: Use HTP(udp) transfer to build acceleration tunnel with HQ and enable Pre-connection and add local subnet

AWS cloud vWANO build acceleration tunnel with AWS cloud vWANO use private IP by peering connections



1、 Add peering connections

Create VPC Peering Connection



Name tag

Local VPC to peer

vpc-1a4c277f (172.31.0.0/16)

Select a VPC to peer with

Account

My account

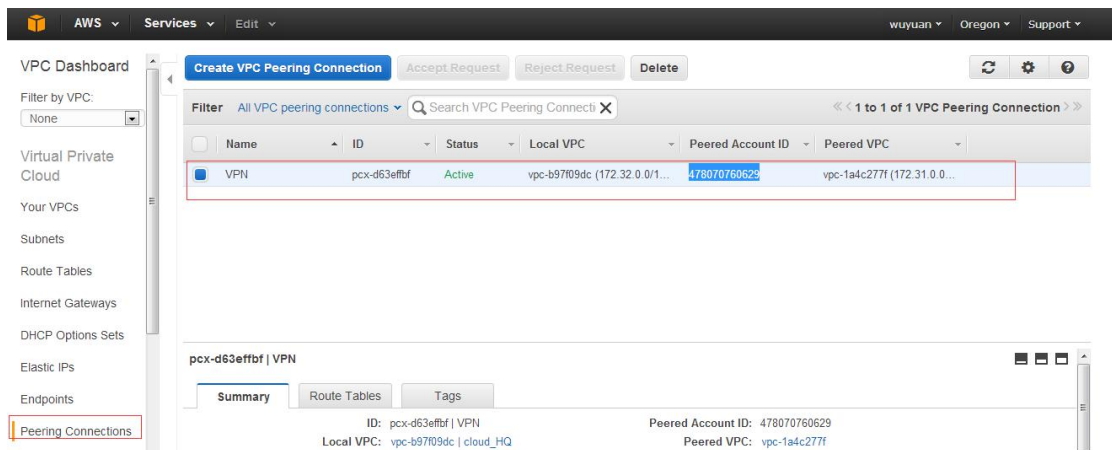
Another account

VPC ID

vpc-2cf18749 (172.33.0.0/16) | 33Cloud

Cancel

Create



VPN

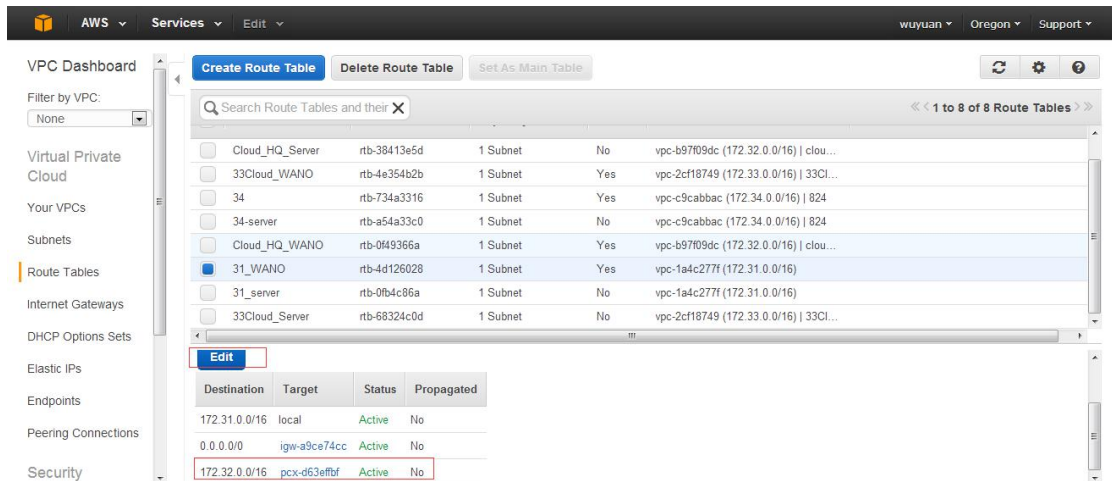
Name	ID	Status	Local VPC	Peered Account ID	Peered VPC
VPN	pcx-d63effbf	Active	vpc-b97f09dc (172.32.0.0/16)	478070760629	vpc-1a4c277f (172.31.0.0/16)

pcx-d63effbf | VPN

Summary | Route Tables | Tags

ID: pcx-d63effbf | VPN
Local VPC: vpc-b97f09dc | cloud_HQ
Peered Account ID: 478070760629
Peered VPC: vpc-1a4c277f

2. Add route

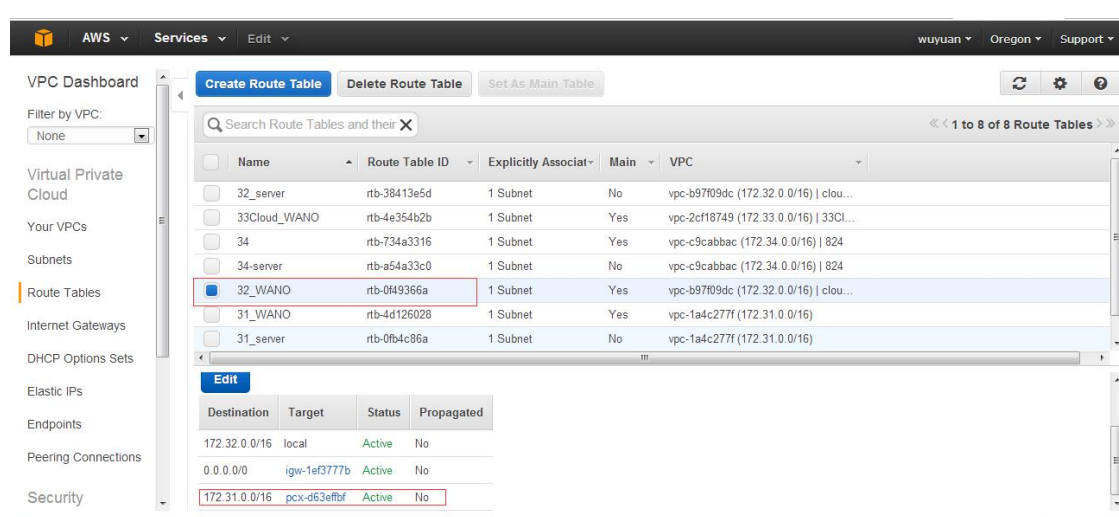


31_WANO

Name	ID	Subnets	Peered	Peered Account ID	Peered VPC
Cloud_HQ_Server	rtb-38413e5d	1 Subnet	No	vpc-b97f09dc (172.32.0.0/16)	cloud...
33Cloud_WANO	rtb-4e354b2b	1 Subnet	Yes	vpc-2cf18749 (172.33.0.0/16)	33Cl...
34	rtb-734a3316	1 Subnet	Yes	vpc-c9cabbac (172.34.0.0/16)	824
34-server	rtb-a54a33c0	1 Subnet	No	vpc-c9cabbac (172.34.0.0/16)	824
Cloud_HQ_WANO	rtb-049366a	1 Subnet	Yes	vpc-b97f09dc (172.32.0.0/16)	clou...
31_WANO	rtb-4d126028	1 Subnet	Yes	vpc-1a4c277f (172.31.0.0/16)	
31_server	rtb-0fb4c86a	1 Subnet	No	vpc-1a4c277f (172.31.0.0/16)	
33Cloud_Server	rtb-68324c0d	1 Subnet	No	vpc-2cf18749 (172.33.0.0/16)	33Cl...

Edit

Destination	Target	Status	Propagated
172.31.0.0/16	local	Active	No
0.0.0.0/0	igw-a9ce74cc	Active	No
172.32.0.0/16	pcx-d63effbf	Active	No



VPC Dashboard

Filter by VPC: None

Virtual Private Cloud

Your VPCs

Subnets

Route Tables

Internet Gateways

DHCP Options Sets

Elastic IPs

Endpoints

Peering Connections

Security

Create Route Table Delete Route Table Set As Main Table

Search Route Tables and their X

<< 1 to 8 of 8 Route Tables >>

Name	Route Table ID	Explicitly Associat-	Main	VPC
32_server	rtb-38413e5d	1 Subnet	No	vpc-b97f09dc (172.32.0.0/16) clou...
33Cloud_WANO	rtb-4e354b2b	1 Subnet	Yes	vpc-2cf18749 (172.33.0.0/16) 33Cl...
34	rtb-734a3316	1 Subnet	Yes	vpc-c9cabbac (172.34.0.0/16) 824
34_server	rtb-a54a33c0	1 Subnet	No	vpc-c9cabbac (172.34.0.0/16) 824
32_WANO	rtb-0f49366a	1 Subnet	Yes	vpc-b97f09dc (172.32.0.0/16) clou...
31_WANO	rtb-4d126028	1 Subnet	Yes	vpc-1a4c277f (172.31.0.0/16)
31_server	rtb-0f4c86a	1 Subnet	No	vpc-1a4c277f (172.31.0.0/16)

Edit

Destination	Target	Status	Propagated
172.32.0.0/16	local	Active	No
0.0.0.0/0	igw-1ef3777b	Active	No
172.31.0.0/16	pcx-d63effbf	Active	No

3、 Use private IP, HTP (UDP) , enable pre-connection build acceleration tunnel.

Notes:

- 1、 Build acceleration tunnel with AWS vWANO must use HTP(UDP) transfer and enable pre-connection
- 2、 Must be careful network ACLS in AWS, must allow necessary traffic.
- 3、 Must add route to other side next gateway to vWANO in AWS
- 4、 All instances must disable Source/Dest Check avoid instances drop packets in AWS.
- 5、 vWANO in AWS only has single-arm mode, no VPN model.
- 6、 Virtual switch in VMware enable promiscuous mode
- 7、 vWANO in VMware only has single-arm and bridge mode, no VPN model
- 8、 vWANO only support 64-bit VMware system