

# Task 1 : Create VPC

The screenshot shows the 'Create VPC' page on the Alibaba Cloud VPC service. The left sidebar lists various network components like vSwitch, Route Tables, NAT Gateway, and Access to Internet. The main form is titled 'VPC' and contains fields for Region (SAU (Riyadh)), Name (Lab-VPC), IPv4 CIDR Block (10.0.0.0/24), and Description (empty). A note says 'You cannot change the CIDR block after the VPC is created.' Below the form are sections for Resource Group (Select) and Tag Key/Value.

The screenshot shows the confirmation page after creating the VPC. It displays a success message: 'The VPC and vSwitches are created.' Below it, a table lists the newly created resources:

VPC ID	vpc-14vwmlrbmwk31bbsx9bmpp	Instance Name	Lab-VPC
Status	✓ Succeeded to Create		
<a href="#">Create NAT Gateway</a> <a href="#">View VPC Details</a>			
vSwitch ID	vsw-14v1v3kue794o8n9j67y8	Zone	Riyadh Zone A
Instance Name	Public-VSwitch-A	Status	✓ Succeeded to Create
<a href="#">Add Cloud Service</a> <a href="#">View vSwitch Details</a>			
vSwitch ID	vsw-14vufx7m06rs2bz6q4ivi	Zone	Riyadh Zone A
Instance Name	Private-Vswitch-A	Status	✓ Succeeded to Create
<a href="#">Add Cloud Service</a> <a href="#">View vSwitch Details</a>			
vSwitch ID	vsw-14v07jyg9ctm7qp41lvcw	Zone	Riyadh Zone B
Instance Name	Public-Vswitch-B	Status	✓ Succeeded to Create
<a href="#">Add Cloud Service</a> <a href="#">View vSwitch Details</a>			
vSwitch ID	vsw-14vfrn1tzh112d3hwana	Zone	Riyadh Zone B

## Task 2&3: Create Vswitch

The screenshot shows the Alibaba Cloud VSwitch management interface. On the left, there's a sidebar with various VPC-related options like VPCs, Route Tables, NAT Gateway, and Endpoints. The main area is titled 'vSwitch' and shows a table of existing switches. The columns include Instance ID/Name, Tags, VPC, Status, IPv4 CIDR Block, Available IP Addresses, Default vSwitch, Zone, and Actions. There are five entries listed:

Instance ID/Name	Tags	VPC	Status	IPv4 CIDR Block	Available IP Addresses	Default vSwitch	Zone	Actions
vsw-14vunstszb11243hwqa	vpc-14wvmbmwk3lbbsx9bmpp	Lab-VPC	Available	168.0.3.0/24	252	No	Riyadh Zone	vtb-14vdpmxx
vsw-14v07jgjektm7qg4t1vcw	vpc-14wvmbmwk3lbbsx9bmpp	Lab-VPC	Available	168.0.2.0/24	251	No	Riyadh Zone	vtb-14vdpmxx
vsw-14vuh7m0brs2z8q4lvi	vpc-14wvmbmwk3lbbsx9bmpp	Lab-VPC	Available	168.0.1.0/24	250	No	Riyadh Zone	vtb-14vdpmxx
vsw-14v07jgjektm7qg4t1vcw	vpc-14wvmbmwk3lbbsx9bmpp	Lab-VPC	Available	168.0.0.0/24	252	No	Riyadh Zone	vtb-14vdpmxx

## Task 4: Create Security Group

The screenshot shows the ECS Security Groups creation interface. The left sidebar includes sections for Overview, Events, Tags, Troubleshooting, ECS Cloud Assistant, Applications, Instances & Images, Network & Security (selected), and Storage & Snapshots. The main area is titled 'Create Security Group' and has tabs for Basic Information, Access Rule, and Advanced Options. Under 'Basic Information', fields include Security Group Name (SecGro), Network (vpc-14wvmbmwk3lbbsx9bmpp, Lab-VPC), Resource Group (Select), and Security Group Type (Basic Security Group). Under 'Access Rule', the Inbound tab is selected, showing two rules:

Action	Priority	Protocol Type	Port Range	Authorization Object	Description	Actions
Allow	1	Custom TCP	*	Dest: SSH (22)	* Source: 0.0.0.0/0	Copy Delete
Allow	1	All ICMP(IPv4)	*	Dest: -1/-1	* Source: 0.0.0.0/0	Copy Delete

## Task 5&6 : Create ECS Instances

The screenshot shows the Alibaba Cloud ECS Instances page. The left sidebar includes sections for Overview, Tags, Troubleshooting, ECS Cloud Assistant, Applications, Instances & Images (selected), Images, Elastic Container Instance, Dedicated Hosts, Reserved Instances, Resource Advisor, Network & Security, Storage & Snapshots, and ECS Instance Backup. The main content area displays four ECS instances:

Instance ID/Name	Tag	Monitoring	Zone	IP Address	Status	Network Type	Specifications	Billing Method	Actions
i-14vgp5of09jk4cpsofx4 Private-ECS			Riyadh Zone A	168.0.1.240 (Private)	Running	VPC	2 vCPU 8 GB (IO Optimized) ecs.g6.large OMbps (Peak Value)	Pay-As-You-Go September 5, 2023 at 14:21 (Time Zone: UTC + 3) Created	Manage   Connect Change Instance Type   More
i-14vgp5acb8raymwq9rfgx6 Public-ECS			Riyadh Zone B	8.213.28.167 (Internet) 168.0.2.128 (Private)	Running	VPC	2 vCPU 8 GB (IO Optimized) ecs.g6.large 1Mbps (Peak Value)	Pay-As-You-Go September 5, 2023 at 14:18 (Time Zone: UTC + 3) Created	Manage   Connect Change Instance Type   More
i-14vbdz5kac0fkwoxy7 launch-advisor-20230905			Riyadh Zone B	168.0.1.69 (Private)	Stopped	VPC	2 vCPU 8 GB (IO Optimized) ecs.g6.large 0Mbps (Peak Value)	Pay-As-You-Go September 5, 2023 at 12:02 (Time Zone: UTC + 3) Created	Manage Change Instance Type   More
i-14vgp5of09jk2hmquall launch-advisor-20230905			Riyadh Zone A	8.213.16.139 (EP) 168.0.0.109 (Private)	Stopped	VPC	2 vCPU 8 GB (IO Optimized) ecs.g6.large 1Mbps (Peak Value)	Pay-As-You-Go September 5, 2023 at 11:58 (Time Zone: UTC + 3) Created	Manage   Upgrade/Downgrade Change Instance Type   More

At the bottom, there are buttons for Start, Stop, Restart, Reset Instance Password, Renew, Switch to Subscription, Release, and More. The status bar indicates "Total: 4 item(s), Per Page: 20 item(s)".

## Task 7 : Connect to Private ECS

The screenshot shows a VNC connection interface. The top bar includes links for What's New, Alibaba Cloud Saudi, ECS Console, W3.CSS Template, Login with Google - Zoom, and New Chrome available. The main content area has tabs for Send Remote Commands, Enter Copy Commands, Reset VNC Password, and Reset Password. It displays a terminal session on a private ECS instance:

```
Ubuntu 22.04.2 LTS i214vgp5of09jk4cpsofx42 tty1
i214vgp5of09jk4cpsofx42 login: root
Password:
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-73-generic x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/advantage

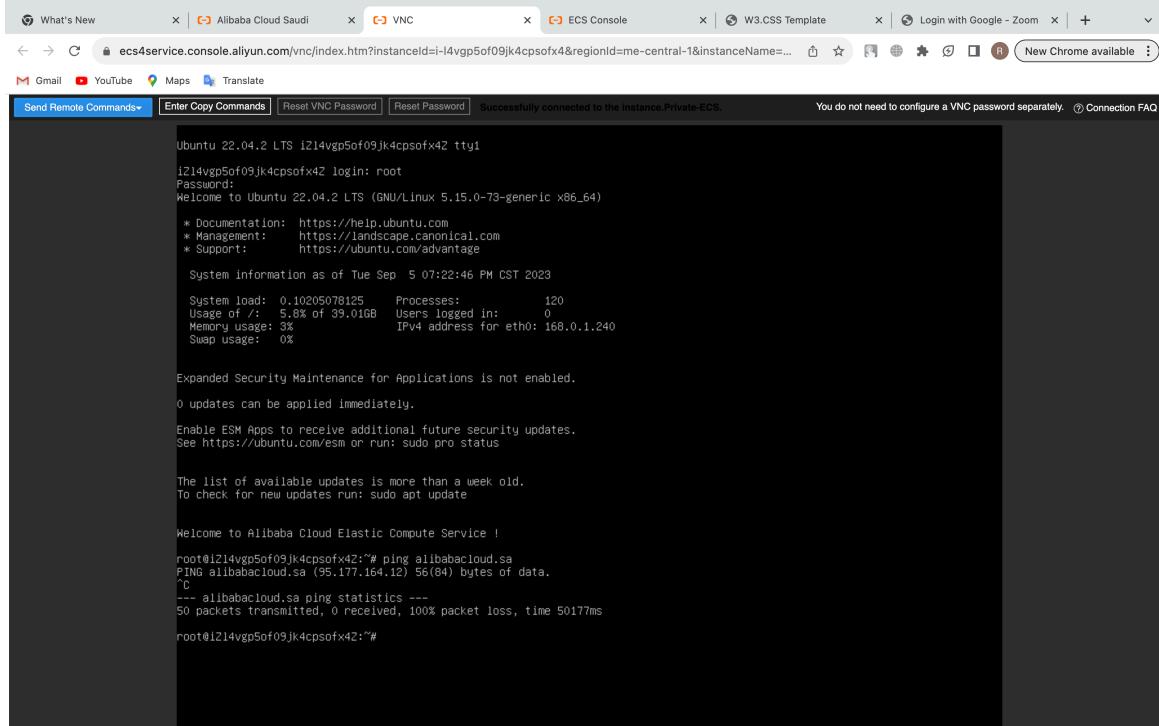
 System information as of Tue Sep 5 07:22:46 PM CST 2023

 System load: 0.10205078125   Processes: 120
 Usage of '/': 5.8% of 39.01GB   Users logged in: 0
 Memory usage: 3%   IPv4 address for eth0: 168.0.1.240
 Swap usage: 0%
```

The terminal also shows expanded security maintenance information, ESM app support, and a welcome message from Alibaba Cloud.

## Task 8 :

-ping alibabacloud.sa



```
Ubuntu 22.04.2 LTS i2l14vgp5of09jk4cpsofx42 tty1
i2l14vgp5of09jk4cpsofx42 login: root
Password:
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-73-generic x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/advantage

System information as of Tue Sep 5 07:22:46 PM CST 2023

System load: 0.10205078125 Processes: 120
Usage of /: 5.8% of 39.01GB Users logged in: 0
Memory usage: 3% IPv4 address for eth0: 168.0.1.240
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

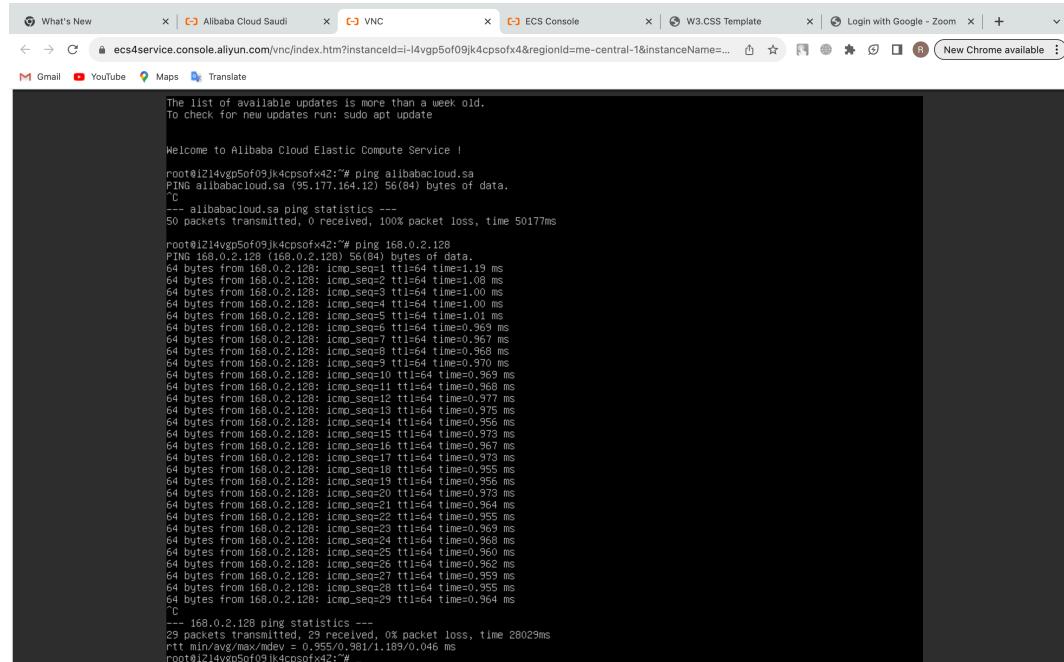
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Welcome to Alibaba Cloud Elastic Compute Service !

root@i2l14vgp5of09jk4cpsofx42:~# ping alibabacloud.sa
PING alibabacloud.sa (95.177.164.12) 56(84) bytes of data.
^C
--- alibabacloud.sa ping statistics ---
50 packets transmitted, 0 received, 100% packet loss, time 5017ms
root@i2l14vgp5of09jk4cpsofx42:~#
```

-ping Public ECS



```
The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Welcome to Alibaba Cloud Elastic Compute Service !
root@i2l14vgp5of09jk4cpsofx42:~# ping 168.0.2.128
PING 168.0.2.128 (168.0.2.128) 56(84) bytes of data.
^C
--- 168.0.2.128 ping statistics ---
50 packets transmitted, 0 received, 100% packet loss, time 5017ms
root@i2l14vgp5of09jk4cpsofx42:~# ping 168.0.2.128
64 bytes from 168.0.2.128: icmp_seq=1 ttl=64 time=0.967 ms
64 bytes from 168.0.2.128: icmp_seq=2 ttl=64 time=0.968 ms
64 bytes from 168.0.2.128: icmp_seq=3 ttl=64 time=0.969 ms
64 bytes from 168.0.2.128: icmp_seq=4 ttl=64 time=0.969 ms
64 bytes from 168.0.2.128: icmp_seq=5 ttl=64 time=0.969 ms
64 bytes from 168.0.2.128: icmp_seq=6 ttl=64 time=0.969 ms
64 bytes from 168.0.2.128: icmp_seq=7 ttl=64 time=0.967 ms
64 bytes from 168.0.2.128: icmp_seq=8 ttl=64 time=0.968 ms
64 bytes from 168.0.2.128: icmp_seq=9 ttl=64 time=0.969 ms
64 bytes from 168.0.2.128: icmp_seq=10 ttl=64 time=0.969 ms
64 bytes from 168.0.2.128: icmp_seq=11 ttl=64 time=0.968 ms
64 bytes from 168.0.2.128: icmp_seq=12 ttl=64 time=0.977 ms
64 bytes from 168.0.2.128: icmp_seq=13 ttl=64 time=0.975 ms
64 bytes from 168.0.2.128: icmp_seq=14 ttl=64 time=0.956 ms
64 bytes from 168.0.2.128: icmp_seq=15 ttl=64 time=0.978 ms
64 bytes from 168.0.2.128: icmp_seq=16 ttl=64 time=0.975 ms
64 bytes from 168.0.2.128: icmp_seq=17 ttl=64 time=0.978 ms
64 bytes from 168.0.2.128: icmp_seq=18 ttl=64 time=0.955 ms
64 bytes from 168.0.2.128: icmp_seq=19 ttl=64 time=0.955 ms
64 bytes from 168.0.2.128: icmp_seq=20 ttl=64 time=0.973 ms
64 bytes from 168.0.2.128: icmp_seq=21 ttl=64 time=0.964 ms
64 bytes from 168.0.2.128: icmp_seq=22 ttl=64 time=0.955 ms
64 bytes from 168.0.2.128: icmp_seq=23 ttl=64 time=0.968 ms
64 bytes from 168.0.2.128: icmp_seq=24 ttl=64 time=0.968 ms
64 bytes from 168.0.2.128: icmp_seq=25 ttl=64 time=0.960 ms
64 bytes from 168.0.2.128: icmp_seq=26 ttl=64 time=0.962 ms
64 bytes from 168.0.2.128: icmp_seq=27 ttl=64 time=0.959 ms
64 bytes from 168.0.2.128: icmp_seq=28 ttl=64 time=0.955 ms
64 bytes from 168.0.2.128: icmp_seq=29 ttl=64 time=0.964 ms
^C
--- 168.0.2.128 ping statistics ---
29 packets transmitted, 29 received, 0% packet loss, time 2802ms
rtt min/avg/max/mdev = 0.955/0.981/1.189/0.046 ms
root@i2l14vgp5of09jk4cpsofx42:~#
```

## Task 9 : Connect to Public ECS

-ping alibabacloud.sa

System information as of Tue Sep 5 07:28:39 PM CST 2018

```
root@i214v9mcbbaymug9rfgx62:~# ping alibabacloud.sa
PING alibabacloud.sa (95.177.164.12) 56(84) bytes of data.
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=1 ttl=243 time=10.9 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=2 ttl=243 time=17.2 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=3 ttl=243 time=17.7 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=4 ttl=243 time=19.4 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=5 ttl=243 time=17.5 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=6 ttl=243 time=23.7 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=7 ttl=243 time=17.6 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=8 ttl=243 time=17.3 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=9 ttl=243 time=17.4 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=10 ttl=243 time=18.0 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=11 ttl=243 time=17.6 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=12 ttl=243 time=17.2 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=13 ttl=243 time=17.6 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=14 ttl=243 time=17.3 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=15 ttl=243 time=17.5 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=16 ttl=243 time=17.5 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=17 ttl=243 time=17.6 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=18 ttl=243 time=17.3 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=19 ttl=243 time=17.4 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=20 ttl=243 time=17.4 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=21 ttl=243 time=19.2 ms
^C
--- alibabacloud.sa ping statistics ---
21 packets transmitted, 21 received, 0% packet loss, time 20024ms
rtt min/avg/max/mdev = 17.155/18.004/23.734/1.422 ms
root@i214v9mcbbaymug9rfgx62:~#
```

-ping Private ECS

System information as of Tue Sep 5 07:28:39 PM CST 2018

```
root@i214v9mcbbaymug9rfgx62:~# ping 168.0.1.240
PING 168.0.1.240 (168.0.1.240) 56(84) bytes of data.
64 bytes from 168.0.1.240: icmp_seq=1 ttl=64 time=0.988 ms
64 bytes from 168.0.1.240: icmp_seq=2 ttl=64 time=0.982 ms
64 bytes from 168.0.1.240: icmp_seq=3 ttl=64 time=0.984 ms
64 bytes from 168.0.1.240: icmp_seq=4 ttl=64 time=0.981 ms
64 bytes from 168.0.1.240: icmp_seq=5 ttl=64 time=0.993 ms
64 bytes from 168.0.1.240: icmp_seq=6 ttl=64 time=0.978 ms
64 bytes from 168.0.1.240: icmp_seq=7 ttl=64 time=0.978 ms
64 bytes from 168.0.1.240: icmp_seq=8 ttl=64 time=0.985 ms
64 bytes from 168.0.1.240: icmp_seq=9 ttl=64 time=0.981 ms
64 bytes from 168.0.1.240: icmp_seq=10 ttl=64 time=0.988 ms
64 bytes from 168.0.1.240: icmp_seq=11 ttl=64 time=0.981 ms
64 bytes from 168.0.1.240: icmp_seq=12 ttl=64 time=0.981 ms
64 bytes from 168.0.1.240: icmp_seq=13 ttl=64 time=0.976 ms
64 bytes from 168.0.1.240: icmp_seq=14 ttl=64 time=0.983 ms
64 bytes from 168.0.1.240: icmp_seq=15 ttl=64 time=0.983 ms
64 bytes from 168.0.1.240: icmp_seq=16 ttl=64 time=0.983 ms
64 bytes from 168.0.1.240: icmp_seq=17 ttl=64 time=0.986 ms
64 bytes from 168.0.1.240: icmp_seq=18 ttl=64 time=0.988 ms
64 bytes from 168.0.1.240: icmp_seq=19 ttl=64 time=0.989 ms
64 bytes from 168.0.1.240: icmp_seq=20 ttl=64 time=0.987 ms
64 bytes from 168.0.1.240: icmp_seq=21 ttl=64 time=0.987 ms
64 bytes from 168.0.1.240: icmp_seq=22 ttl=64 time=0.988 ms
64 bytes from 168.0.1.240: icmp_seq=23 ttl=64 time=0.978 ms
64 bytes from 168.0.1.240: icmp_seq=24 ttl=64 time=0.983 ms
64 bytes from 168.0.1.240: icmp_seq=25 ttl=64 time=0.989 ms
64 bytes from 168.0.1.240: icmp_seq=26 ttl=64 time=0.983 ms
^C
--- 168.0.1.240 ping statistics ---
26 packets transmitted, 26 received, 0% packet loss, time 25024ms
rtt min/avg/max/mdev = 0.969/0.983/0.997/0.005 ms
root@i214v9mcbbaymug9rfgx62:~#
```

# Task 10 : Create internet Nat Gateway

The screenshot shows the Alibaba Cloud VPC Internet NAT Gateway configuration page. The URL is [alibabacloud.sa/content\\_frame?code=1654249398406FUZ](#). The page title is "ngw-l4vxg873c9pf7zjzxnrz". The left sidebar shows the VPC navigation menu with "Internet NAT Gateway" selected. The main content area has tabs for "Basic Information", "Associated EIP", "DNAT Management", "SNAT Management", and "Monitor". Under "Basic Information", the Instance ID is "ngw-l4vxg873c9pf7zjzxnrz", Description is "Creating", Region is "SAU (Riyadh)", Status is "Creating", and Resource Group is "rg-acfmwzytewbulq / default resource group". The "SNAT Management" tab is active, showing a section titled "Configure SNAT and DNAT Entries". Below it, there are two sections: "Associate with EIP" (with a link to "Associate Now") and "Configure SNAT and DNAT Entries" (with links to "Create SNAT Entry" and "Create DNAT Entry").

The screenshot shows the Alibaba Cloud VPC SNAT Table configuration page. The URL is [alibabacloud.sa/content\\_frame?code=1654249398406FUZ](#). The page title is "ngw-l4vxg873c9pf7zjzxnrz". The left sidebar shows the VPC navigation menu with "Internet NAT Gateway" selected. The main content area has tabs for "Basic Information", "Associated EIP", "DNAT Management", "SNAT Management", and "Monitor". Under "SNAT Management", the "SNAT Table Information" section shows a SNAT Table ID "stb-l4vkhahlofqkn32v7tqf" and a creation date "Sep 5, 2023, 14:37:07". The "Used in SNAT Entry" section contains a table with columns: "Create SNAT Entry", "Entry ID", "Entry ID", "Source CIDR Block", "ECS Instance/ENI/vSwitch/VPC ID", "Public IP", and "Status". A note at the bottom of this section says "No SNAT entry is associated with the instance. Create".

ngw-l4vxg873c9pf7zjvxnrz

SNAT Entry ID/Name	Source CIDR Block	ECS Instance/ENI/vSwitch/vPC ID	Public IP	Status	Actions
snat-l4v8mqrhfb0ewcrw183	168.0.1.0/24	-	8.213.23.10;	✓ Available	Edit Delete

## -ping alibabacloud.sa after internet Nat Gateway

```

44 bytes from 168.0.2.128: icmp_seq=25 ttl=64 time=0.960 ms
64 bytes from 168.0.2.128: icmp_seq=26 ttl=64 time=0.962 ms
64 bytes from 168.0.2.128: icmp_seq=27 ttl=64 time=0.959 ms
64 bytes from 168.0.2.128: icmp_seq=28 ttl=64 time=0.955 ms
64 bytes from 168.0.2.128: icmp_seq=29 ttl=64 time=0.964 ms
^C
-- 168.0.2.128 ping statistics --
29 packets transmitted, 29 received, 0% packet loss, time 28029ms
rtt min/avg/max/mdev = 0.955/0.981/1.189/0.046 ms
root@i214vgp5ofo9jk4cpsofx4:~# ping alibabacloud.sa
PING alibabacloud.sa (95.177.164.12) 56(84) bytes of data.
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=1 ttl=243 time=17.3 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=2 ttl=243 time=16.3 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=3 ttl=243 time=16.0 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=4 ttl=243 time=16.0 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=5 ttl=243 time=15.8 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=6 ttl=243 time=16.0 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=7 ttl=243 time=15.9 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=8 ttl=243 time=15.9 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=9 ttl=243 time=15.9 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=10 ttl=243 time=16.2 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=11 ttl=243 time=15.8 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=12 ttl=243 time=15.8 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=13 ttl=243 time=15.8 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=14 ttl=243 time=15.6 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=15 ttl=243 time=15.9 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=16 ttl=243 time=15.7 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=17 ttl=243 time=16.1 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=18 ttl=243 time=16.6 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=19 ttl=243 time=16.2 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=20 ttl=243 time=16.3 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=21 ttl=243 time=16.2 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=22 ttl=243 time=15.7 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=23 ttl=243 time=15.8 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=24 ttl=243 time=16.0 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=25 ttl=243 time=15.8 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=26 ttl=243 time=15.9 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=27 ttl=243 time=15.9 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=28 ttl=243 time=15.9 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=29 ttl=243 time=15.9 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=30 ttl=243 time=15.7 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=31 ttl=243 time=16.2 ms
64 bytes from 95.177.164.12 (95.177.164.12): icmp_seq=32 ttl=243 time=16.0 ms
^C
-- alibabacloud.sa ping statistics --
32 packets transmitted, 32 received, 0% packet loss, time 31046ms
rtt min/avg/max/mdev = 15.687/16.039/17.307/0.319 ms
root@i214vgp5ofo9jk4cpsofx4:~#

```

## The DNAT :

The screenshot shows the Alibaba Cloud VPC Internet NAT Gateway interface. The left sidebar navigation includes: VPCs, vSwitch, Route Tables, NAT Gateway (selected), Internet NAT Gateway, VPC NAT Gateway, NAT Gateway Resource Plan, VPC Peering Connection (red alert), Endpoints, Endpoints Service, HaVip, DHCP Options Sets, Access to Internet (Elastic IP Addresses, Anycast Elastic IP Addresses, Internet Shared Bandwidth, Internet Tool Kit), Interconnections (VPN, CEN), and Express Connect. The main content area displays the DNAT Management tab for a specific DNAT Table (ID: ftb-l4v02uf0y6hrfzvmbz8). The table lists one entry: fvd-l4v02uf0y6hrfzvmbz1 (Net-pr) with Public IP 8.213.23.10, Public Port 80, Private IP Address 168.0.1.240, and Private Port 80. The status is Available. Buttons for Create DNAT Entry, Entry ID, and Search are visible.

The screenshot shows a VNC session connected to an Ubuntu 22.04 LTS instance. The terminal window displays the following text:

```
Ubuntu 22.04.2 LTS l214vgp5of09jk4cpsofx42 tty1
l214vgp5of09jk4cpsofx42 login: root
Password:
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-73-generic x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/advantage

System information as of Wed Sep 6 03:05:35 PM CST 2023

System load: 0.32763671875 Processes: 128
Usage of /: 7.7% of 39.01GB Users logged in: 0
Memory usage: 3% IPv4 address for eth0: 168.0.1.240
Swap usage: 0%

* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
just raised the bar for easy, resilient and secure K8s cluster deployment.
https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

101 updates can be applied immediately,
67 of these updates are standard security updates.
To see these additional updates run apt list --upgradable

2 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm

Failed to connect to https://changelogs.ubuntu.com/meta-release-its. Check your Internet connection or proxy settings

Welcome to Alibaba Cloud Elastic Compute Service !

Last login: Tue Sep 5 19:22:46 CST 2023 on ttym1
root@l214vgp5of09jk4cpsofx42:~# cd /var/www/html
root@l214vgp5of09jk4cpsofx42:/var/www/html# ls
index.html
root@l214vgp5of09jk4cpsofx42:/var/www/html#
```

