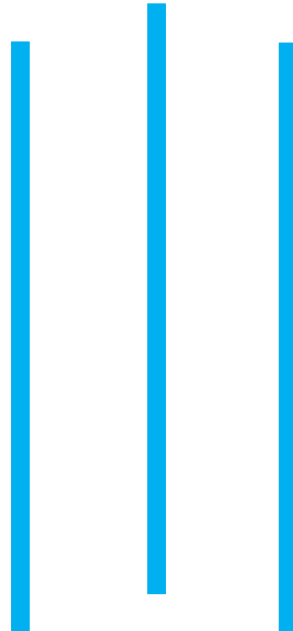


LAPORAN PRAKTIKUM CLOUD COMPUTING

“Praktikum 1 AWS”



Oleh :

- | | |
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**JURUSAN TEKNIK
PROGRAM STUDI TEKNOLOGI INFORMASI
POLITEKNIK NEGERI MADIUN
2023**

1. Langkah pertama buat AWS budget ke Zero Spend Budget, lalu Create budget

The screenshot shows the AWS Budgets console interface. On the left is a navigation menu with options like 'Budgets reports', 'Savings Plans', 'Preferences', 'Billing preferences', 'Payment preferences', 'Consolidated billing', 'Tax settings', 'Permissions', and 'Affected policies'. The main area displays the 'Zero spend budget - Template' configuration. At the top, there are two radio button options: 'Daily Savings Plans coverage budget' and 'Daily reservation utilization budget'. Below these, the 'Budget name' field is filled with 'Kel.6 Zero-Spend Budget'. The 'Email recipients' field contains 'fatihahardiansyah@gmail.com'. A blue information box states: 'You will be notified via email when any spend above \$0.01 is incurred.' At the bottom right, there are 'Cancel' and 'Create budget' buttons.

aws Services Search [Alt+S]

Budgets reports
Savings Plans
Preferences
Billing preferences
Payment preferences
Consolidated billing
Tax settings
Permissions
Affected policies

Create a budget that notifies you once your spending exceeds \$0.01 which is above the AWS Free Tier limits.

Create a monthly budget that notifies you if you exceed, or are forecasted to exceed, the budget amount.

☐ Daily Savings Plans coverage budget
Create a coverage budget for your Savings Plans that notifies you when you fall below the defined target.

☐ Daily reservation utilization budget
Create a utilization budget for your reservations that notifies you when you fall below the defined target.

Zero spend budget - Template

Budget name
Provide a descriptive name for this budget.
Kel.6 Zero-Spend Budget
Names must be between 1-100 characters.

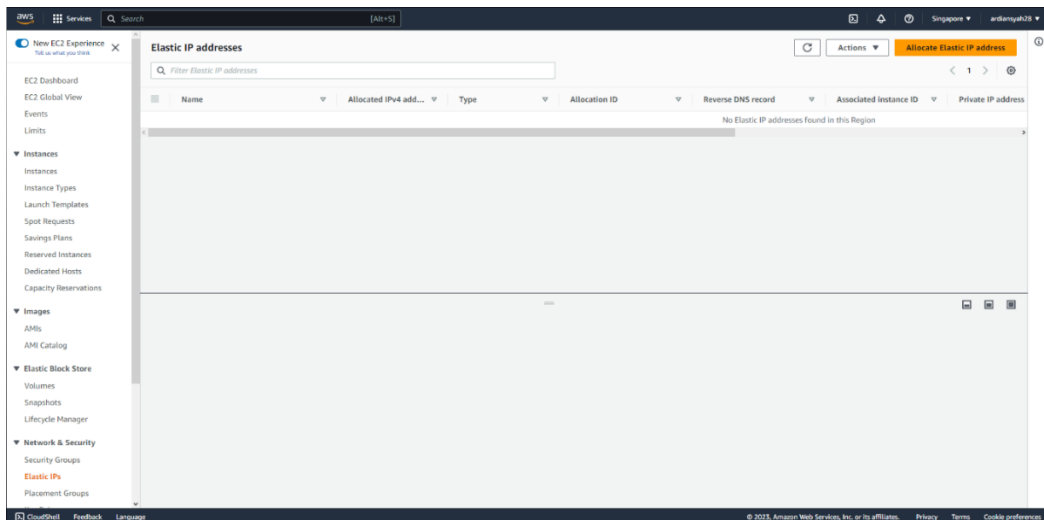
Email recipients
Specify the email recipients you want to notify when the threshold has exceeded.
fatihahardiansyah@gmail.com
Maximum number of email recipients is 10.

Scope
All AWS services are in scope in this budget.

Template settings
This template has default configurations that can be changed later. To change any of these settings, see [Custom](#). You can also download this template in [JSON](#).

Cancel Create budget

2. Setelah itu masuk ke menu Elastic IPs dan atur sesuai dengan gambar dibawah ini, lalu Allocate



Services
Search
[Alt+S]

EC2 > Elastic IP addresses > Allocate Elastic IP address

Allocate Elastic IP address [Info](#)

Elastic IP address settings [Info](#)

Network Border Group [Info](#)

Public IPv4 address pool

- ☒ Amazon's pool of IPv4 addresses
- ☐ Public IPv4 address that you bring to your AWS account (option disabled because no pools found) [Learn more](#)
- ☐ Customer owned pool of IPv4 addresses (option disabled because no customer owned pools found) [Learn more](#)

Global static IP addresses

AWS Global Accelerator can provide global static IP addresses that are announced worldwide using anycast from AWS edge locations. This can help improve the availability and latency for your user traffic by using the Amazon global network. [Learn more](#)

Tags - optional

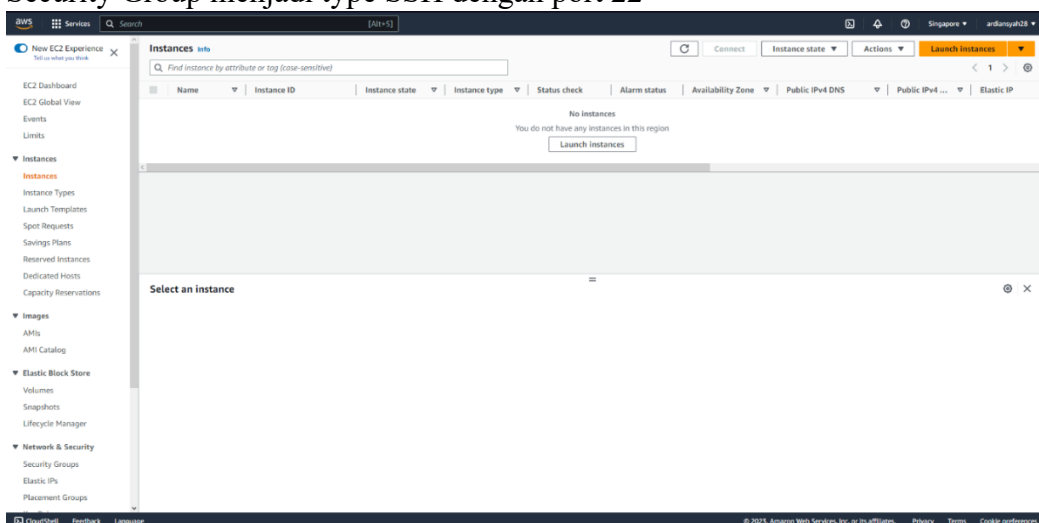
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

You can add up to 50 more tag


CloudShell
Feedback
Language

- Kemudian masuk ke menu Instance dan atur nama, atur OS menjadi ubuntu dan atur Security Group menjadi type SSH dengan port 22



4. Masuk ke Create Key Pair, edit dan atur private key file format menjadi menggunakan PuTTY, lalu itu create key pair. Setelah Sukses akan otomatis mendownload file.

Create key pair



We noticed that you didn't select a key pair. If you want to be able to connect to your instance it is recommended that you create one.

Key pairs allow you to connect to your instance securely.

Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** [Learn more](#)

☒ Create new key pair

☐ Proceed without key pair

Key pair name

kelompok6

The name can include upto 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA
RSA encrypted private and public key pair

☐ ED25519
ED25519 encrypted private and public key pair (Not supported for Windows instances)

Private key file format

☐ .pem
For use with OpenSSH


☒ .ppk
For use with PuTTY

Cancel

Create key pair

aws Services Search [Alt+S]

EC2 > Instances > Launch an instance

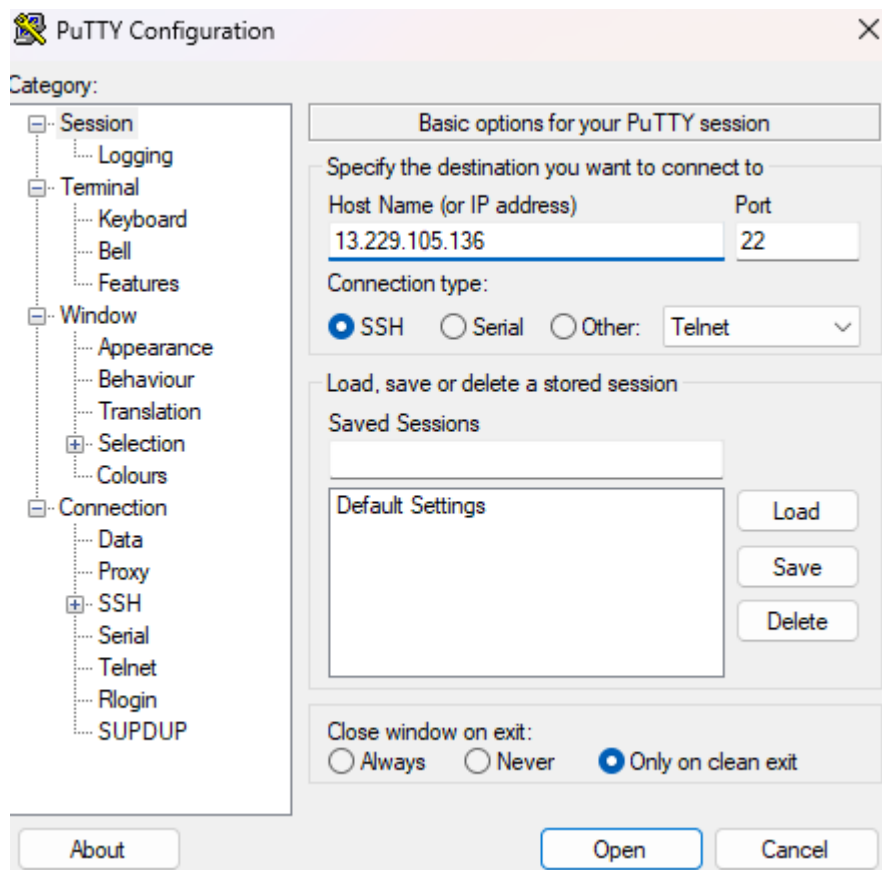


Success

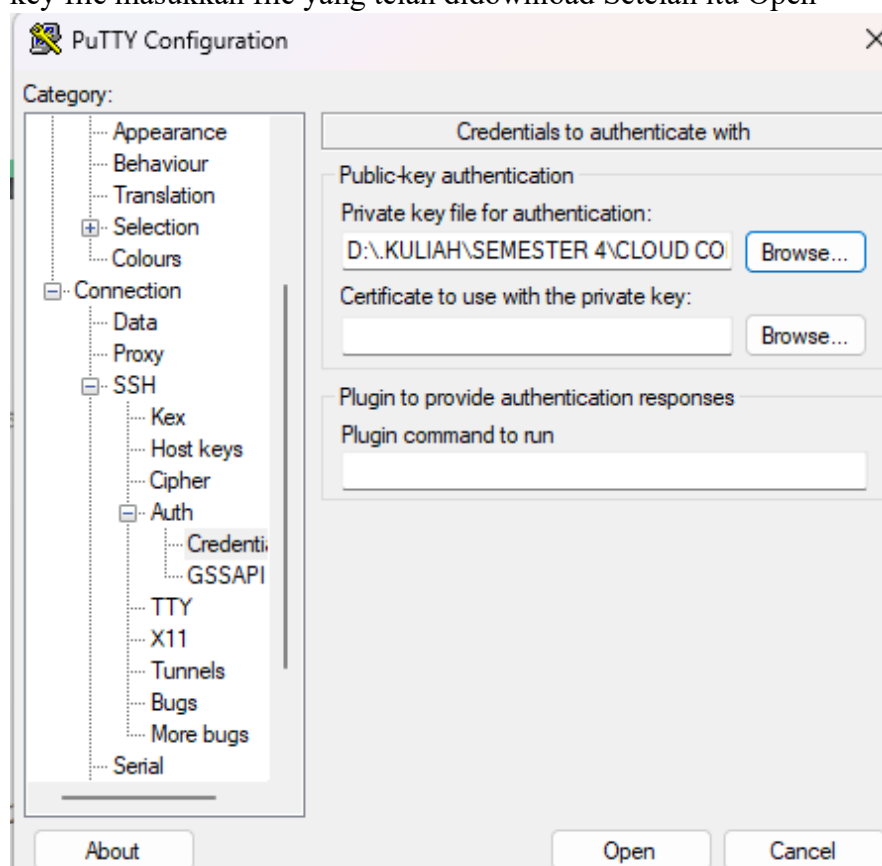
Successfully initiated launch of instance (i-0604a8bc5cd72872d)

▶ Launch log

5. Masuk ke dalam apk PuTTY masukkan ip addres yang telah didapat pada menu instance.



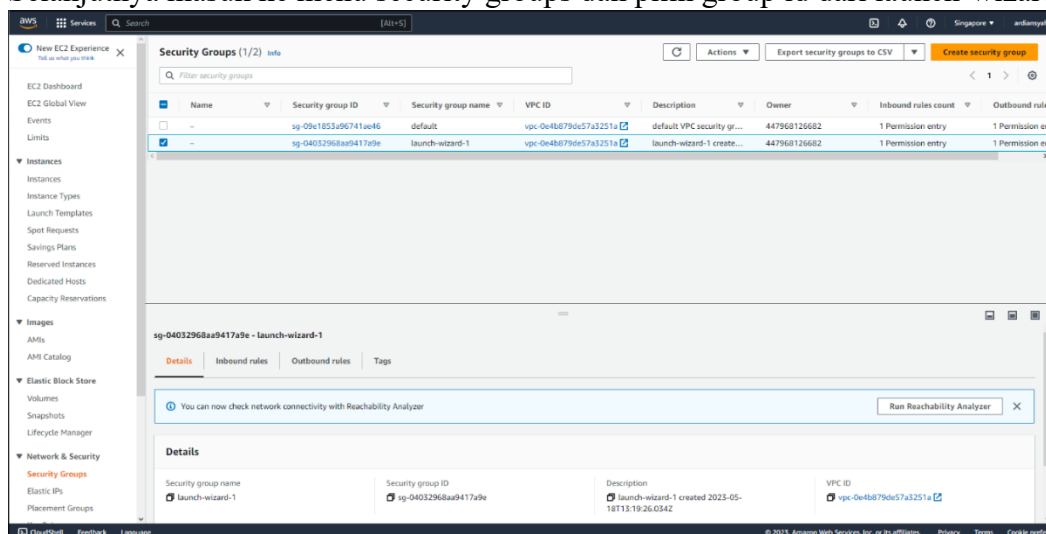
6. Kemudian masuk ke menu Connection- SSH - Auth- Credentials, lalu pada private key file masukkan file yang telah didownload Setelah itu Open

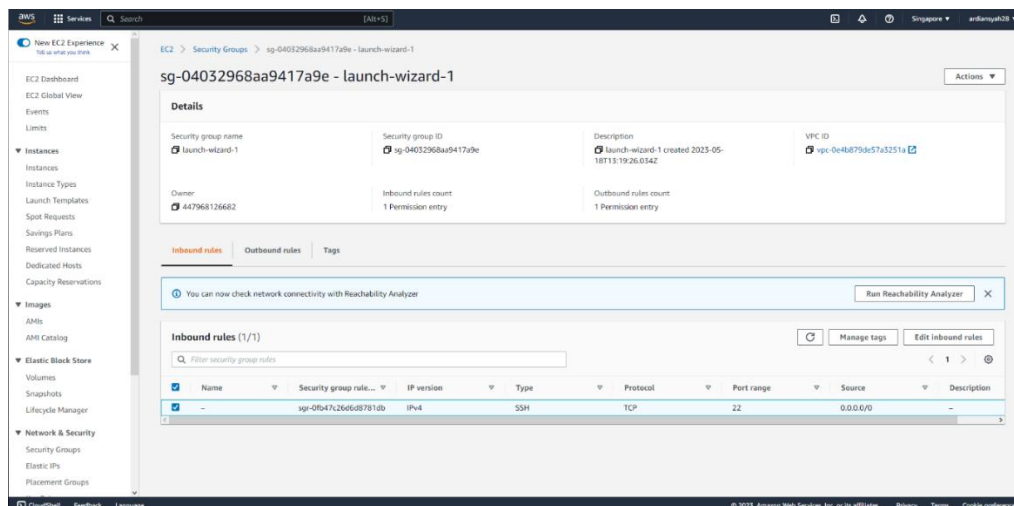


7. Jika sudah terbuka akan tampil tampilan seperti dibawah ini, dan login as ubuntu karena kita menggunakan OS ubuntu.

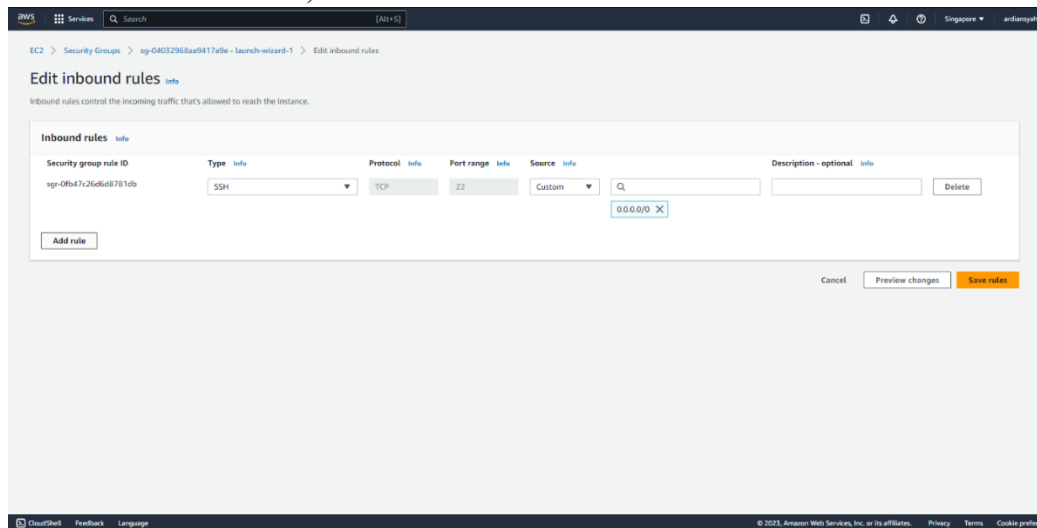
```
ubuntu@ip-172-31-22-49: ~  
login as: ubuntu  
Authenticating with public key "kelompok6" from agent  
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-1031-aws x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
System information as of Thu May 18 13:32:28 UTC 2023  
  
System load:  0.0849609375      Processes:            101  
Usage of /:   20.1% of 7.57GB   Users logged in:     0  
Memory usage: 20%              IPv4 address for eth0: 172.31.22.49  
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  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
  
ubuntu@ip-172-31-22-49:~$
```

8. Selanjutnya masuk ke menu security groups dan pilih group id dari launch-wizard 1

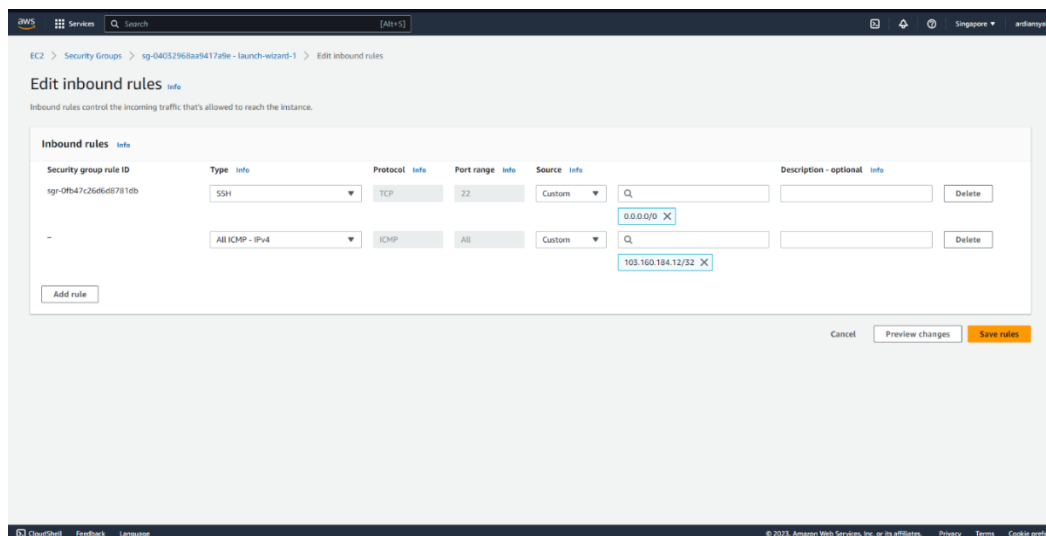




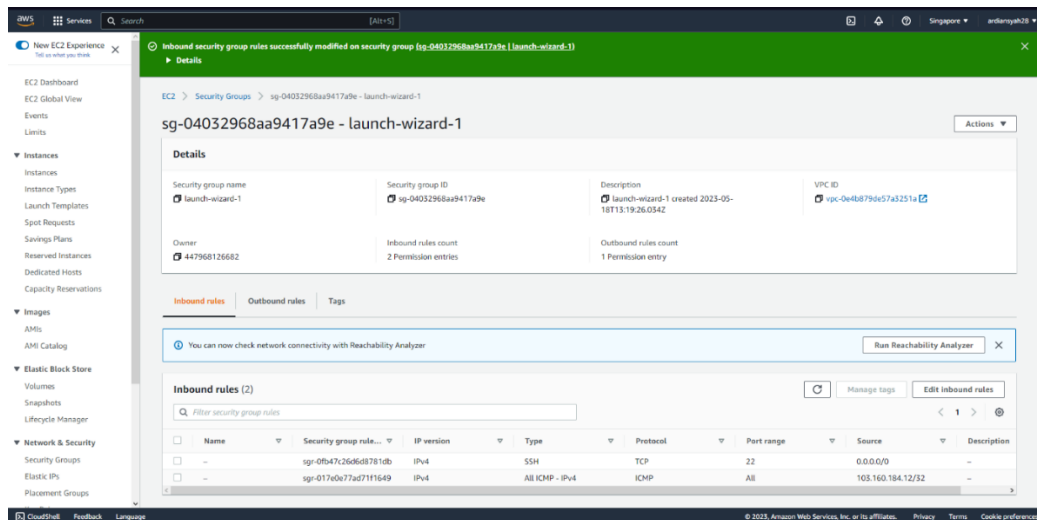
9. Lalu edit inbound rules, dan add rule



10. Pada inbound rules ganti type menjadi All ICMP – Ipv4 dan masukkan ip public lalu Save rules



11. Maka jika sukses akan tampil tampilan seperti dibawah ini dengan ip public kita



12. Masuk ke dalam menu cmd lalu coba test ping ip public kita.

```
C:\Users\supri>ping 13.229.105.136

Pinging 13.229.105.136 with 32 bytes of data:
Reply from 13.229.105.136: bytes=32 time=31ms TTL=47
Reply from 13.229.105.136: bytes=32 time=31ms TTL=47
Reply from 13.229.105.136: bytes=32 time=38ms TTL=47
Reply from 13.229.105.136: bytes=32 time=32ms TTL=47

Ping statistics for 13.229.105.136:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 31ms, Maximum = 38ms, Average = 33ms
```