

Step-by-Step Deployment Guide —

Azure Cowrie Honeypot

1. Create Your Azure Linux VM

- Go to **Azure Portal** → **Virtual Machines** → **Create VM**
- Choose: **Image**: Ubuntu Server 24.04 LTS **Size**: B1s **Authentication**: password
- Under **Networking** → **NSG inbound rules**, allow: **Port 22** → (You only need to open **Port 22** (**SSH**) if you want to log in to the VM normally for administration. Default port) Port 2222 — Required (Cowrie Honeypot SSH Listener)

Basics

Subscription	Visual Studio Enterprise Subscription – MPN
Resource group	[REDACTED]
Virtual machine name	CowrieLab
Region	South Africa North
Availability options	Availability zone
Zone options	Self-selected zone
Availability zone	1
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Image	Ubuntu Server 24.04 LTS - Gen2
VM architecture	x64
Size	Standard B1s (1 vcpu, 1 GiB memory)
Enable Hibernation	No
Authentication type	[REDACTED]
Username	[REDACTED]
Public inbound ports	SSH
Azure Spot	No

- Ubuntu **24.04 LTS ships with Python 3.12**, which meets the requirement easily. It's more future-proof and supported until 2034.

2. SSH into Your VM

- ssh azureuser@<VM-Public-IP>

3. Update System and install Dependencies

```
sudo apt update && sudo apt upgrade -y
```

```
udo apt install -y python3 python3-pip python3-venv libssl-dev libffi-dev build-essential
```

5. Clone the Cowrie Repository

```
git clone https://github.com/cowrie/cowrie
```

```
admin@CowrieLab:~$ git clone https://github.com/cowrie/cowrie
Cloning into 'cowrie'...
remote: Enumerating objects: 20818, done.
remote: Counting objects: 100% (81/81), done.
remote: Compressing objects: 100% (62/62), done.
remote: Total 20818 (delta 49), reused 26 (delta 19), pack-reused 20737 (from 2)
Receiving objects: 100% (20818/20818), 11.04 MiB | 15.23 MiB/s, done.
Resolving deltas: 100% (14550/14550), done.
```

6. Add inbound rule → Port 2222 → Allow → TCP

Source ⓘ

Any



Source port ranges * ⓘ

*



Destination ⓘ

Any



Service ⓘ

Custom



Destination port ranges * ⓘ

2222



Protocol

Any

TCP

UDP

ICMPv4

ICMPv6

Action

Allow

Deny

Priority * ⓘ

1002



Name *

allow-port-2222



Description

