1. #!/usr/bin/env python3

2.

3.

4. import socket, threading, datetime, os

5.

6. HOST='0.0.0.0'

7. PORT=2222

8. LOGDIR=os.path.expanduser('~/honeypot\_logs')

9. os.makedirs(LOGDIR, exist\_ok=True)

10. BANNER="SSH-2.0-OpenSSH\_7.6p1 Ubuntu-4ubuntu0.3\r\n"

11.

12. def handle(conn, addr):

13. ip, port = addr[:2]

14. fname = f"{ip.replace(':','\_')}\_{datetime.datetime.utcnow().strftime('%Y%m%dT%H%M%S')}.log"

15. path = os.path.join(LOGDIR, fname)

16. with open(path, 'w', encoding='utf-8') as fh:

17. fh.write(f"peer: {ip}:{port}\nstart: {datetime.datetime.utcnow().isoformat()}\n")

18. try:

19. conn.sendall(BANNER.encode())

20. conn.settimeout(8)

21. while True:

22. data = conn.recv(2048)

23. if not data:

24. break

25. fh.write(f"[{datetime.datetime.utcnow().isoformat()}] RECV: {data!r}\n")

26. # reply with a fake prompt (never run commands)

27. try:

28. conn.sendall(b"\nlogin: ")

29. except:

30. break

31. except **Exception** as e:

32. fh.write("error:"+str(e)+"\n")

33. finally:

34. fh.write("end:"+datetime.datetime.utcnow().isoformat()+"\n")

35. conn.close()

36.

37. s = socket.socket()

38. s.setsockopt(socket.SOL\_SOCKET, socket.SO\_REUSEADDR, 1)

39. s.bind((HOST, PORT))

40. s.listen(50)

41. print("Tiny honeypot listening on port", PORT)

42. try:

43. while True:

44. conn, addr = s.accept()

45. threading.**Thread**(target=handle, args=(conn, addr), daemon=True).start()

46. except **KeyboardInterrupt**:

47. s.close()

