## Dionaea Honeypot Complete Installation & Testing Guide

Prepared for: Red Team Lab / Threat Intelligence Testing

This document provides a fully validated step-by-step guide to install, configure, troubleshoot, and test Dionaea honeypot with all modules enabled.

## 1. Installation & Setup

1. Update system and install dependencies:

sudo apt update && sudo apt upgrade -y sudo apt install -y git build-essential cmake libcurl4-openssl-dev libglib2.0-dev libpcap-dev libnl-3-dev libnl-genl-3-dev python3 python3-dev python3-pip libssl-dev libtool autoconf automake libudns-dev libev-dev libemu-dev sqlite3 libsqlite3-dev libreadline-dev libtool-bin cython3 python3-setuptools python3-wheel

2. Clone Dionaea source code:

cd /opt
sudo git clone --recursive https://github.com/DinoTools/dionaea.git
cd dionaea

3. Compile Dionaea:

mkdir build && cd build
cmake ..
make -j\$(nproc)
sudo make install

- 4. Resolve Python module error:
  - Find compiled core.so:
     find /opt/dionaea/build -name "core\*.so"

- Create folder & move core.so: sudo mkdir -p

/opt/dionaea/build/modules/python/build/lib.linux-x86\_64-cpython-312/dionaea
sudo my

5. Copy default configuration:

sudo cp /opt/dionaea/etc/dionaea/dionaea.cfg.dist
/opt/dionaea/etc/dionaea/dionaea.cfg

6. Start Dionaea:

sudo

## 2. Module Testing Checklist

No.	Module	Service/Protocol	Test Command	Status
1	p0f	Passive OS Detection	nmap -sS <ip></ip>	
2	ftp	FTP (21/tcp)	ftp <ip></ip>	
3	tftp	TFTP (69/udp)	tftp <ip> get file</ip>	
4	http	HTTP (80/tcp)	curl http:// <ip></ip>	
5	smb	SMB (445/tcp)	smbclient -L // <ip></ip>	
6	mssql	MSSQL (1433/tcp)	nmap -p 1433script ms-sql* <ip></ip>	
7	mysql	MySQL (3306/tcp)	mysql -h <ip> -u root -p</ip>	
8	echo	Echo (7/tcp)	telnet <ip> 7</ip>	
9	sip	SIP (5060/udp)	sipvicious -i <ip> -m REGISTER</ip>	
10	upnp	UPnP (1900/udp)	gssdp-discover -i eth0	
11	shellcode	Shellcode emulation	nc <ip> 21 &lt; shellcode.bin</ip>	
12	logsql/pcap	Logging & Packet Capture	Check /opt/dionaea/var/dionaea/	

## 3. Monitoring & Operations

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3. Monitoring and Log Paths
Real-time process check:
    ps aux | grep dionaea | grep -v grep
Check listening ports:
    sudo lsof -i -n -P | grep dionaea
View logs:
    tail -f /opt/dionaea/var/dionaea/dionaea.log
Malware sample storage:
    /opt/dionaea/var/dionaea/binaries/
4. Notes:
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- Do NOT run Dionaea as root in production. Always create an unprivileged user.

- Combine Dionaea logs with ELK / Wazuh for advanced threat intelligence workflows.

- Test in isolated VM or container environment.