演示

图解

代码

Erlang 问世于 1987 年,是一种面向并发的编程语言最初是由爱立信专门为通信应用设计的,比如控制交换机或者变换协议等,因此非常适合于构建分布式,实时软并行计算系统它的分布式机制是透明的Erlang 运行时环境是一个虚拟机,有点像 Java 虚拟机

Erlang 在国外,主要包括爱立信的宽带, GPRS 和 ATM 交换解决方案 计算机电话,消息系统和商业银行等 国内用于游戏开发

WhatsApp 2013

4.5 亿的活跃用户,并且是史上最快达到这个数字的公司数百个节点,8000+CPU,数百 TB 内存,每秒 Erlang 消息超过 7000 万在 2011 年,WhatsApp 单服务器取得 100 万个 tcp 会话在 2012 年,tcp 会话发展到了 200 万2013 年,70 亿消息入站,110 亿消息出站,每天处理 180 亿消息

SSH SERVER

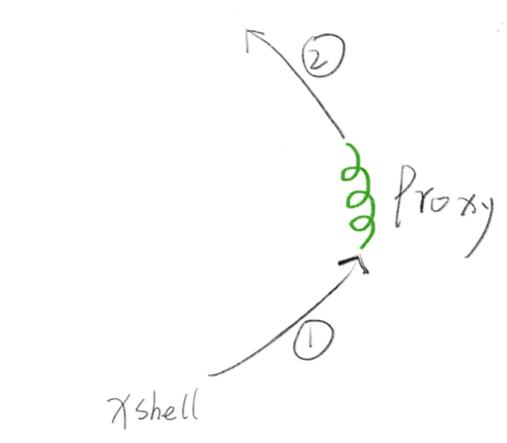
SSH SERVER

SSH SERVER

Proxy

SSH SERVER froxy 7 Shell

IF TO SSH SERVER



反向代理 ISSH SERVER Firewall

Proxy

反向代理 SSH SERVER Firewall Proxy

Proxy

反向代理 SSH SERVER Firewall' ProxyQ

Kshell

反向代理 SSH SERVER Firewall'
ProxyQ

Kshell

ISSH SERVER Firewall ProxyQ 反向代理 34 7 Shell

ISSH SERVER Firewall 反向代理 7 Shell

Firewall' 反向代理 Kshell

SSH SERVER Firewall 反向代理 34 Kshell

SSH SERVER Firewall 反向代理 34 Kshell

SSH SERVER Firewall 反向代理 Kshell

Firewall 正向代理: Proxy -lister left 2222 - connect-pight If: 端口

反向代理: Proxy Connect-left IP:端口-connect-xight IP:端口 公网C lister left 2222 - lister pight 3333

Firewall lister left 2222 - connect-pight If:端口 反向代码: Proxy Connect-left 印描o-connect-xight 印描o
Proxy - lister left 2222 - lister pight 3333

Firewall -listen left 2222 - connect-pight 反向代码: Proxy Connect-left IP:端口-connect-xight IP:端口 公内C lister left 2222 - lister pight 3333

Firewall -listen left 2222 - connect-pight 反向代理: Proxy Connect-left TP: 200 - connect-xight TP: 200 - lister pight 3333 The SOCKS request is formed as follows:

VER	CMD	RSV	ATYP	DST. ADDR	DST. PORT
1	1	X' 00'	1	Variable	2

Where:

- o VER protocol version: X'05'
 - CMD
 - o CONNECT X'01' o BIND X'02'
- o UDP ASSOCIATE X'03'
- o ATYP address type of following address
 - o IP V4 address: X'01'
 - o IP V6 address: X'04'
- o DST. ADDR desired destination address
- o DST.PORT desired destination port in network octet order

The SOCKS server will typically evaluate the request based on source and destination addresses, and return one or more reply messages, as appropriate for the request type. Once the method-dependent subnegotiation has completed, the sends the request details. If the negotiated method include encapsulation for purposes of integrity checking and/or confidentiality, these requests MUST be encapsulated in the dependent encapsulation.

The SOCKS request is formed as follows:

			DST. ADDR	
-		-	Variable	

Where:

```
o VER protocol version: X'05'
o CMD
o CONNECT X'01'
o BIND X'02'
o UDP ASSOCIATE X'03'
o RSV RESERVED
o ATYP address type of following address
o IP V4 address: X'01'
o DOMAINNAME: X'03'
o IP V6 address: X'04'
```

o DST.ADDR desired destination address o DST.PORT desired destination port in network octet order

The SOCKS server will typically evaluate the request based of and destination addresses, and return one or more reply mess appropriate for the request type.

```
%% https://www.ietf.org/rfc/rfc1928.txt
find target(<<5:8, N:8, Methods:N/binary-unit:8,
   5:8, CMD:8, Rsv:8, AType:8, Rest/binary>>) ->
    case split socks5 data(AType, Rest) of
        {ok, Target, Body} ->
            Response = <<5, 0, 0, 1, <<0, 0, 0, 0>>/binary, 0:16
            {ok, Target, Body, Response};
        {error, Reason} ->
            {error, Reason};
        more ->
            more
    end:
split socks5 data(1, <<Address:4/binary, Port:16, Body/binary>>
    Target = {list_to_tuple(binary_to_list(Address)), Port},
    {ok, Target, Body};
split socks5 data(1, ) ->
    more:
```

aliyunHK -5 Properties Category: Connection > SSH > Tunneling **⊡**-Connection - Authentication TCP/IP Forwarding Login Prompts -Login Scripts ⊕-SSH Security Type Listening Port Destination Tunneling Dynamic 1080 SETP TELNET

RLOGIN SERIAL

Add/Edit/Remove TCP/IP forwarding rules. These rules automatically when connection is established.



chrome.exe -proxy-server=socks5://127.0.0.1:1080

Category:

□ Connection

Login Prompts

Tunneling

-Login Scripts Security

> SETP TELNET RLOGIN SERIAL

aliyunHK -5 Properties

Connection > SSH > Tunneling - Authentication TCP/IP Forwarding

Add/Edit/Remove TCP/IP forwarding rules. These rules automatically when connection is established.

Listening Port Destination

Dynamic 1080

反向代理



aliyunHK -5 Properties Category: chrome.exe -proxy-server=socks5://127.0.0.1:1080 □ Connection Connection > SSH > Tunneling - Authentication TCP/IP Forwarding Login Prompts Add/Edit/Remove TCP/IP forwarding rules. These rules curl --socks5-hostname 127.0.0.1:1080 https://www.google.com scripts automatically when connection is established. Security Listening Port Destination curl_setopt(\$ch, CURLOPT_PROXYTYPE, CURLPROXY_8OCKS5); setp curl_setopt(\$ch, CURLOPT_PROXY, "127.0.0.1:1080"); Tunn curl_setopt(\$ch, CURLOPT_PROXY, "127.0.0.1:1080"); Tunneling Dynamic 1080 RLOGIN

反向代理



到你的

aliyunHK -5 Properties Category: chrome.exe -proxy-server=socks5://127.0.0.1:1080 □ Connection Connection > SSH > Tunneling — Authentication TCP/IP Forwarding Login Prompts Add/Edit/Remove TCP/IP forwarding rules. These rules curl --socks5-hostname 127.0.0.1:1080 https://www.google.com scripts automatically when connection is established. Security Listening Port Destination curl_setopt(\$ch, CURLOPT_PROXYTYPE, CURLPROXY_8OCKS5); strp Tunneling Dynamic 1080 curl_setopt(\$ch, CURLOPT_PROXY, "127.0.0.1:1080"); TELNET RLOGIN SERIAL

git config --global http.proxy 'socks5://127.0.0.1:1080' git config --global https.proxy 'socks5://127.0.0.1:1080'

Proxy

%-f:	tells	the	SSH	to	background	itself	after	it	authenticates,	saving	you	time	by	not	having	t

%-N: if all you need is to create a tunnel without running any remote commands then include this of

%-T: useful to disable pseudo-tty allocation, which is fitting if you are not trying to create an

%autossh utility,