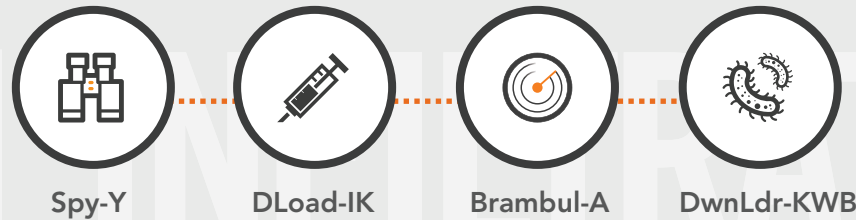


# THE ANATOMY OF AN ATTACK 2015

## ATTACK PATTERN STAGES

Attackers often use multiple tools in the same attack. The following is an example from the Alert Logic honeypot network.

### INFILTRATION KILL CHAIN - Look for vulnerabilities



### PROBE KILL CHAIN - Steal passwords, keylogging, bypass authentication systems



### EXPLOIT KILL CHAIN



## WHAT IS AN ATTACK?

An attempt to damage, disrupt, or gain unauthorized access to a computer, computer system, or electronic communications network

### WHY ATTACK?

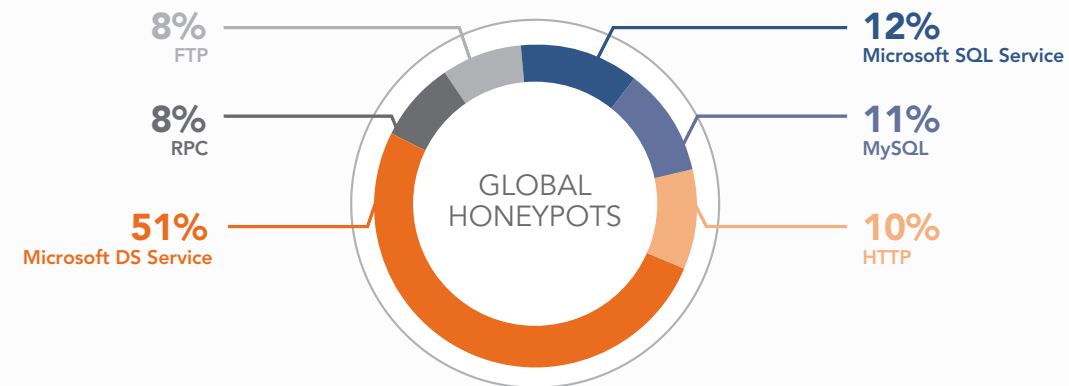
- Financial gain
- Cause fear
- Maliciousness
- Political motivation
- Gain access to resources

### HOW YOU CAN HELP YOURSELF

- Secure your code
- Create access management policies
- Adopt a patch management approach
- Review logs regularly
- Build a security toolkit
- Stay informed of the latest vulnerabilities
- Understand your service providers' security

## WHAT GETS ATTACKED?

While attackers will target almost any online service, in the Alert Logic global honeypot network, the most popular target was Microsoft Directory Services via port 445. Port 445 enables file sharing, so it's a popular target for transferring malicious content to servers.



## PREVENTION

Protect yourself from specific attacks by pursuing the list below.

### INFILTRATION

**WEB APPLICATION FIREWALL**  
DETECT AND BLOCK ATTACKS

**INTRUSION DETECTION**  
IDENTIFY BREACHES

**FIREWALL\***  
BLOCK 445 TRAFFIC (IF PORT NOT IN USE)

### PROBES

**LOG MANAGEMENT**  
DETECT ATTEMPTED LOGGINGS

**ANTI VIRUS\***  
DETECT PASSWORD-STEALING MALWARE

### EXPLOITS

**INTRUSION DETECTION**  
DETECT DATA LEAKAGE

**NETFLOW**  
DETECT DATA TRANSFER

**FILE INTEGRITY MANAGEMENT\***  
DETECT FILE MODIFICATIONS

## MALWARE USED IN ATTACKS

