

SiCat Firmware

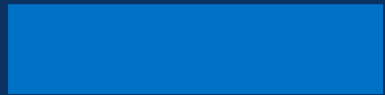
```
graph TD; DNS[DNS Analyzer] <-->|c| Allowed[Allowed urls table]; Allowed <-->|b| Http[Http/SSL Packet Analyzer.]; Http <-->|a| Registered[Registered clients table.]; Registered <-->|e| Clients[Clients control]; Clients <-->|d| Internal[Internal HTTP server.]; Clients <-->|f| Internal; Clients <-->|g| Allowed; Internal <-->|11| Server[Server]; Internal <-->|12| Client[Client];
```

The diagram illustrates the SiCat Firmware architecture, showing the following components and their interactions:

- Components:**
 - DNS Analyzer** (Orange box)
 - Allowed urls table** (Dark red box)
 - Registered clients table.** (Dark red box)
 - Http/SSL Packet Analyzer.** (Orange box)
 - Clients control** (Orange box)
 - Internal HTTP server.** (Orange box)
- Interactions:**
 - Yellow arrows:** Represent network connections to the **DNS Analyzer**.
 - Red arrows:** Represent data flow between the **DNS Analyzer** and **Allowed urls table** (labeled **c**), and between the **Allowed urls table** and **Http/SSL Packet Analyzer.** (labeled **b**).
 - Green arrows:** Represent data flow between the **Http/SSL Packet Analyzer.** and **Registered clients table.** (labeled **a**), and between the **Registered clients table.** and **Clients control** (labeled **e**).
 - Blue arrows:** Represent data flow between the **Clients control** and **Internal HTTP server.** (labeled **d** and **f**).
 - Blue arrow:** Represents data flow from the **Clients control** to the **Allowed urls table** (labeled **g**).
 - Grey arrows:** Represent network connections from the **Internal HTTP server.** to the **Server** (labeled **11**) and the **Client** (labeled **12**).



Key:



Iptables Module



SiCat Module



SiCat Table



Dnsmasq Server



General Traffic



DNS Traffic



Http / SSL Traffic



Control Interaction



Data modification / reading interaction