

**Web Cache / Proxy** ..... 3

..... 3

Forward ..... 3

Reverse ..... 3

Transparent ..... 4

..... 4

..... 5



# Web Cache / Proxy

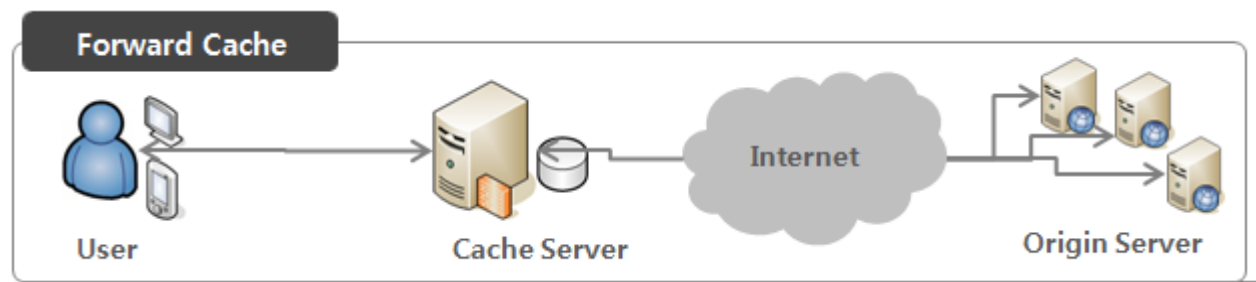
/ (HTML Page, ) (Caching) , , .

- [Apache Traffic Server](#)
- [Squid](#)
- [Varnish](#)

3가 가 .

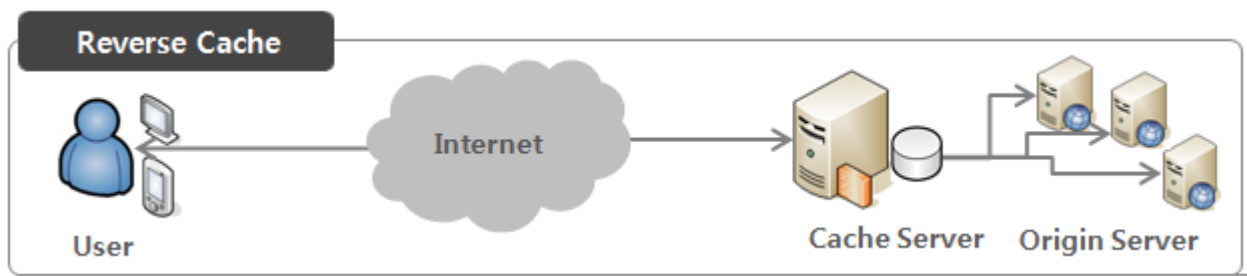
1. Forward
2. Reverse
3. Transparent

## Forward



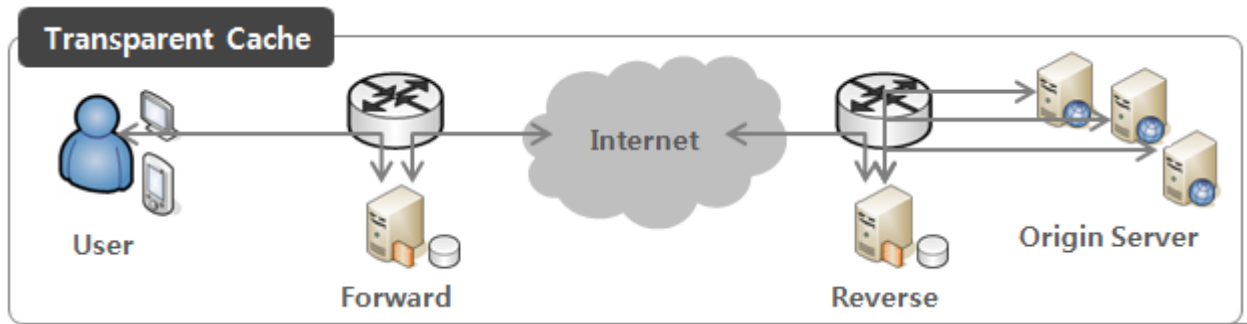
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## Reverse



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Transparent



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- NW (DPI redirection, PBR ) Forward Reverse

- [Apache Traffic Server](#)
- [HAProxy](#)
- [Squid](#)
- [Varnish](#)

|                | ATS  | HAproxy | nginx | Squid | Varnish | mod_proxy |
|----------------|------|---------|-------|-------|---------|-----------|
| Worker Threads | Y    | N       | N     | N     | Y       | Y         |
| Multi-Process  | N    | Y       | Y     | N     | Y       | Y         |
| Event-driven   | Y    | Y       | Y     | Y     | N       | N?        |
| Plugin APIs    | Y    | N       | Y     | part  | Y       | Y         |
| Forward Proxy  | Y    | N       | N     | Y     | N       | Y         |
| Reverse Proxy  | Y    | Y       | Y     | Y     | Y       | Y         |
| Transp. Proxy  | Y    | Y       | N     | Y     | N       | N         |
| Load Balancer  | part | Y       | Y     | Y     | Y       | Y         |
| Cache          | Y    | N       | Y     | Y     | Y       | Y         |
| ESI            | soon | N       | N     | Y     | Y       | N         |
| ICP            | Y    | N       | N     | Y     | N       | N         |
| Keep-Alive     | Y    | N       | Y     | Y     | Y       | Y         |
| SSL            | Y    | N       | Y     | Y     | N       | Y         |

**Table 4 - Comparison of Proxy Cache Solutions.**

| Supported Features            | ATS | Nginx | Varnish | IIS with ARR | Squid |
|-------------------------------|-----|-------|---------|--------------|-------|
| Reverse Proxy                 | Yes | Yes   | Yes     | Yes          | Yes   |
| Forward Proxy                 | Yes | No    | No      | Yes          | Yes   |
| Transparent Proxy             | Yes | No    | No      | Yes          | Yes   |
| Plugin APIs                   | Yes | Yes   | Yes     | Yes          | Yes   |
| Cache                         | Yes | Yes   | Yes     | Yes          | Yes   |
| Edge Side Includes (ESI)      | Yes | No    | Partial | Yes          | Yes   |
| Internet Cache Protocol (ICP) | Yes | No    | No      | No           | Yes   |
| Secure Sockets Layer (SSL)    | Yes | Yes   | No      | Yes          | Yes   |
| SPDY                          | Yes | Yes   | No      | No           | No    |

- <https://d2.naver.com/helloworld/352076> # Varnish
- <https://gongspace.tistory.com/16> # ATS
- <https://chhanz.github.io/linux/2019/11/13/configuration-squid-proxy/> # Squid

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