**VARNISH configured for Caching & Redirection(HIT & MISS)**

vcl 4.1;

# Default backend definition. Set this to point to your content server.

backend default {

.host = "127.0.0.1";

.port = "8080";

}

sub vcl\_recv {

# Happens before we check if we have this in cache already.

# Typically you clean up the request here, removing cookies you don't need,

# rewriting the request, etc.

if (req.http.X-Forwarded-Proto !~ "(?i)https") {

set req.http.Location = "https://" + req.http.Host + req.url;

return (synth(850, ""));

}

# Only cache GET and HEAD requests

if (req.method != "GET" && req.method != "HEAD") {

return (pass);

}

if (req.http.host == "sagar5.kubewaf.com" && req.url ~ "^/2023/08/04/the-art-gallery/") {

return (pass); /This line is used to always uncache a particular link.

}

# Set the hash key for the request

return (hash);

}

sub vcl\_synth {

if (resp.status == 850) {

set resp.http.Location = req.http.Location;

set resp.status = 301;

return (deliver);

}

}

sub vcl\_backend\_response {

# Happens after we have read the response headers from the backend.

# Here you clean the response headers, removing silly Set-Cookie headers

# and other mistakes your backend does.

# Cache the response if it is successful (status code 200) and has a cacheable TTL

if (beresp.status == 200 && beresp.ttl > 0s) {

set beresp.ttl = 1h; # Adjust the TTL value based on your needs

return (deliver);

}

}

sub vcl\_deliver {

# Happens when we have all the pieces we need, and are about to send the

# response to the client.

# You can do accounting or modify the final object here.

if (obj.hits > 0) {

set resp.http.x-cache = "HIT";

} else {

set resp.http.x-cache = "MISS";

}

}

**Command to check detailed logs. It shows the live logs.**

varnishlog -g request -q 'RespHeader:x-cache eq "HIT" or RespHeader:x-cache eq "MISS"'

*The below command saves the detailed logs*

*nohup varnishlog* -g request -q 'RespHeader:x-cache eq "HIT" or RespHeader:x-cache eq "MISS"'*> /var/log/varnish/varnishlog.log 2>&1 &*

*Now to check the live logs, use the below command*

tail -f /var/log/varnish/varnishlog.log

**Command to check the short logs:**

*The below command records the logs in varnishncsa.log.1 file and it runs in the background but it stops once the terminal is closed-*

varnishncsa -a -w /var/log/varnish/varnishncsa.log.1 -F '%h %l %u %t \"%r\" %s %b \"%{Referer}i\" \"%{User-agent}i\" %{x-cache}o' &

*The below command ensures that the varnishncsa process runs in the background even after the terminal closes-*

*nohup varnishncsa -a -w /var/log/varnish/varnishncsa.log.1 -F '%h %l %u %t \"%r\" %s %b \"%{Referer}i\" \"%{User-agent}i\" %{x-cache}o' > /var/log/varnish/varnishncsa.log.1 &*

*Now to check the live logs, use the below command*

tail -f /var/log/varnish/varnishncsa.log.1

**Command to clear the cached content of a particular domain**

varnishadm ban req.http.host == example.com

**Command to clear the cached content of a particular domain and particular path**

varnishadm ban "req.http.host == sagar5.kubewaf.com && req.url ~ ^/2023/08/04/the-art-gallery/"