



```

        append opad [format %c $o]
    }
    for { } { $j < $bsize } { incr j } {
        append ipad 6
        append opad \
    }

    set token [sha256 $opad[sha256 "${ipad}${message}"]]

    binary scan $token H* hextoken
    log -noname local0. [string toupper "result = $hextoken"]
}
}

```

#### NetScaler Solution:

```
add hmac h1 -digest SHA1 -keyValue 010203040500000000
```

```
add rewrite action act1 replace HTTP.REQ.HEADER("TEST")
HTTP.REQ.HEADER("TEST").HMAC("h1")
```

```
add rewrite policy pol1 HTTP.REQ.HEADER("TEST").EXISTS act1
```

NetScaler advance policies support HMAC operation as an independent function which can just be used with any data set. This simplifies the whole use case and one need not worry about complex calculations.