

hProxyN design

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<http://www.65536.cn/work/2008/hProxyN/>

Where is hProxyN?



User-Agent

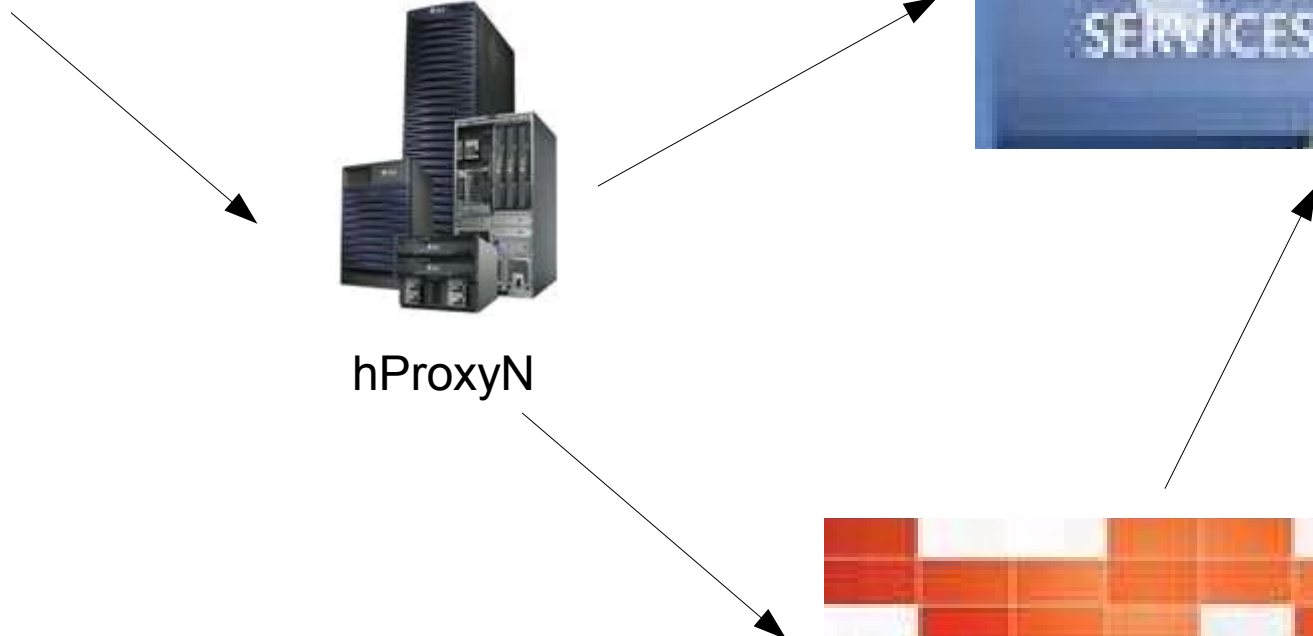


hProxyN

origin server



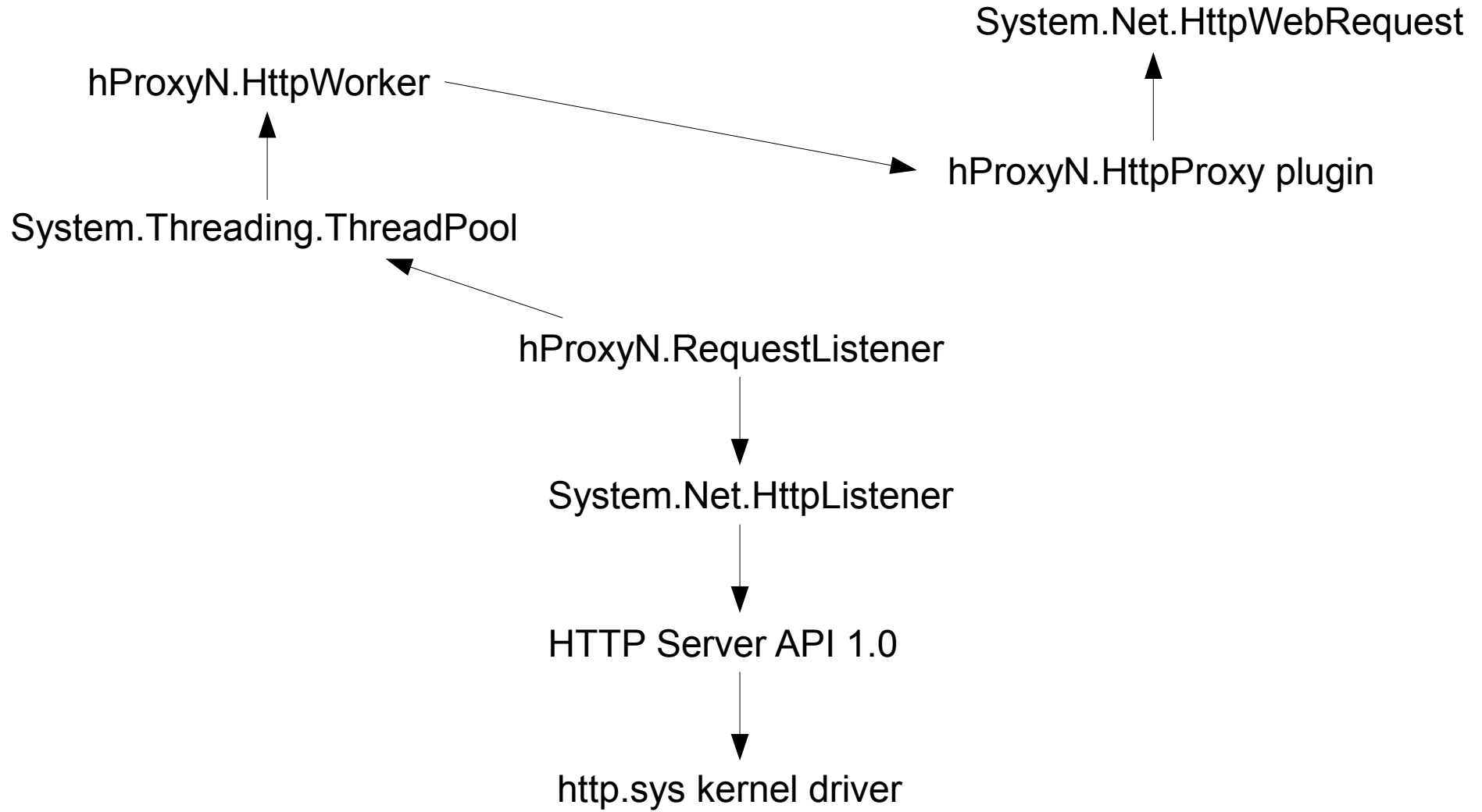
inbound gateway



Reading Configuration

- XML-based configuration file
- Strongly-typed classes derived from `System.Configuration.ConfigurationElement`
- Managed by CLR

Processing Requests



Request Cycle

- Similar to Apache HTTP Server
- `hProxyN.HttpWorker.ProcessRequest`
 - parsing phase
 - build url from `HttpListenerRequest`
 - security phase
 - Access Control goes here
 - preparation phase
 - handler phase
 - `HttpProxy` sends inbound request here

Plugin Operations

- Implementing a plugin
 - Derive from `hProxyN.PluginBase`
 - Define a constructor taking a `ConfigurationElement`
 - Override `AddHooks`, listen to some events
 - Override `RemoveHooks`, stop listening

Plugin Operations

- RequestListener raise events
 - Events about the listener itself
 - ListenerStart
 - ListenerStop
 - ListenerGotRequest
 - Events about a request
 - TranslateUrl – parsing phase
 - AccessControl – security phase
 - Prepare – preparation phase
 - Handler – handler phase

Logging

