



Conditions & Route Rules

Conditions

- Dynamic processing at runtime
- Defines operations on variables
- Results are boolean
- Allows chaining

Conditions

<Condition>

(proxy.pathsuffix MatchesPath "/statuses") **and** (request.verb = "GET")

</Condition>

<Condition>

(proxy.pathsuffix MatchesPath "/statuses" **or** proxy.pathsuffix MatchesPath
"/status") **and** (request.verb = "GET")

</Condition>

Condition Format

```
<Condition>{variable.name}{operator}{"value"}</Condition>
```

Conditions - Policy Execution

<Step>

<Condition>request.header.accept = "application/json"</Condition>

<Name>XMLToJSON</Name>

</Step>

Conditions - Flow Execution

```
<Flow name="GetRequests">  
  <Condition>request.verb = "GET"</Condition>  
  <Request>  
    <Step>  
      <Condition>request.path MatchesPath "/statuses/**"</Condition>  
      <Name>StatusesRequestPolicy</Name>  
    </Step>  
  </Request>  
  <Response/>  
</Flow>
```

Conditions - Flow Execution

```
<Flow name="GetRequests">  
  <Condition>request.verb = "GET"</Condition>  
  <Request>  
    <Step>  
      <Condition>request.path MatchesPath "/statuses/**"</Condition>  
      <Name>StatusesRequestPolicy</Name>  
    </Step>  
  </Request>  
  <Response/>  
</Flow>
```

Conditions - Flow Execution

```
<Flow name="GetRequests">
  <Condition>request.verb = "GET"</Condition>
  <Request>
    <Step>
      <Condition>request.path MatchesPath "/statuses/**"</Condition>
      <Name>StatusesRequestPolicy</Name>
    </Step>
  </Request>
  <Response/>
</Flow>
<Flow name="InvalidRequest404">
  <Request>
    <Step>
      <Name>RaiseFault404NotFound</Name>
    </Step>
  </Request>
  <Response/>
</Flow>
```


Conditions - Flow Execution

```
<Flow name="GetRequests">
  <Condition>request.verb = "GET"</Condition>
  <Request>
    <Step>
      <Condition>request.path MatchesPath "/statuses/**"</Condition>
      <Name>StatusesRequestPolicy</Name>
    </Step>
  </Request>
</Response/>
</Flow>
<Flow name="InvalidRequest404">
  <Request>
    <Step>
      <Name>RaiseFault404NotFound</Name>
    </Step>
  </Request>
</Response/>
</Flow>
```

Conditions - Target end point route selection

```
<RouteRule name="xmlTarget">  
  <Condition>request.header.Content-Type = "text/xml"</Condition>  
  <TargetEndpoint>XmlTargetEndpoint</TargetEndpoint>  
</RouteRule>
```

```
<RouteRule name="default">  
  <TargetEndpoint>target</TargetEndpoint>  
</RouteRule>
```

Pattern matching in Conditions

- Matches
- JavaRegex
- MatchesPath

Pattern matching in Conditions - Matches

<Condition>(proxy.pathsuffix Matches "/cat")</Condition>

<Condition>(proxy.pathsuffix Matches "/*at")</Condition>

<Condition>(proxy.pathsuffix Matches "/cat*")</Condition>

<Condition>(proxy.pathsuffix Matches "/c%*at")</Condition>

Pattern matching in Conditions - Matches

<Condition>

(proxy.pathsuffix **Matches** "/cat")

</Condition>

<Condition>

(proxy.pathsuffix **~** "/cat")

</Condition>

<Condition>

(proxy.pathsuffix **Like** "/cat")

</Condition>

Pattern matching in Conditions - JavaRegex

<Condition>(proxy.pathsuffix JavaRegex "/cat")</Condition>

<Condition>(proxy.pathsuffix JavaRegex "/c*t")</Condition>

<Condition>(proxy.pathsuffix JavaRegex "/ca?t")</Condition>

<Condition>(proxy.pathsuffix JavaRegex "/[cbr]at")</Condition>

Pattern matching in Conditions - Matches

<Condition>

(proxy.pathsuffix **JavaRegex** "/cat")

</Condition>

<Condition>

(proxy.pathsuffix **~~** "/cat")

</Condition>

Pattern matching in Conditions - MatchesPath

<Condition>(proxy.pathsuffix MatchesPath "/animals/*")</Condition>

<Condition>(proxy.pathsuffix MatchesPath "/animals/**")</Condition>

<Condition>(proxy.pathsuffix MatchesPath "/animals/*/wild/**")</Condition>

Pattern matching in Conditions - Matches

<Condition>

(proxy.pathsuffix **MatchesPath** "/animals/*")

</Condition>

<Condition>

(proxy.pathsuffix **~/** "/animals/*")

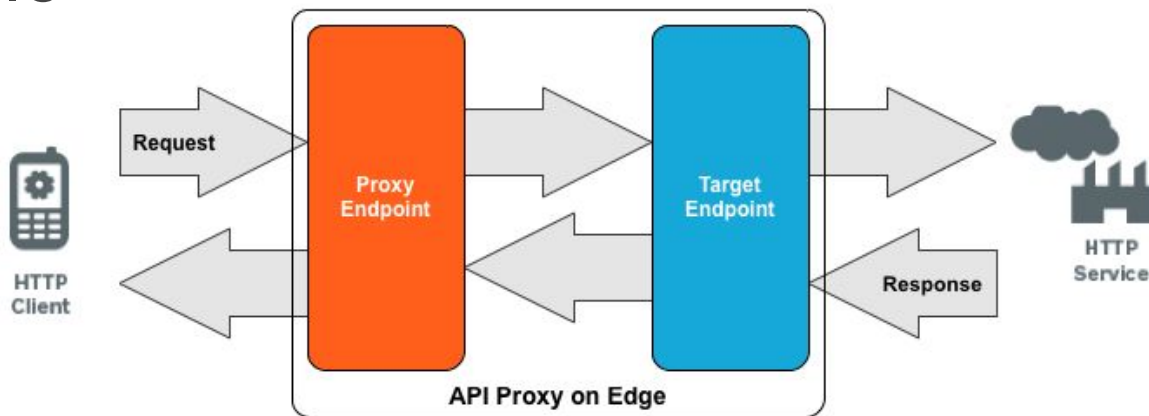
</Condition>

<Condition>

(proxy.pathsuffix **LikePath** "/animals/*")

</Condition>

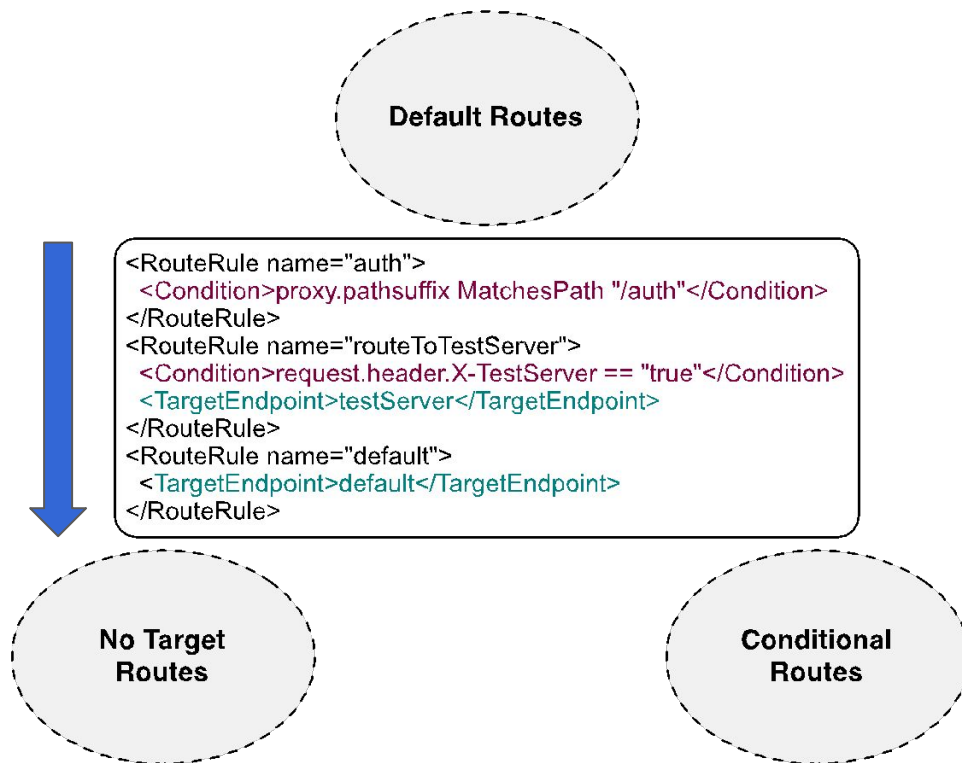
Route Rule



```
<ProxyEndpoint name="default">
  <PreFlow/>
  <Flows>
    <Flow name="forecast">
      <Condition>
        proxy.pathsuffix MatchesPath &quot;/forecastrss&quot;;
      </Condition>
    </Flow>
  </Flows>
  <PostFlow/>
  <HTTPProxyConnection>
    <VirtualHost>default</VirtualHost>
    <BasePath>/v1/weather</BasePath>
  </HTTPProxyConnection>
  <RouteRule name="default">
    <TargetEndpoint>default</TargetEndpoint>
  </RouteRule>
</ProxyEndpoint>
```

```
<TargetEndpoint name="default">
  <PreFlow/>
  <Flows/>
  <PostFlow/>
  <HTTPTargetConnection>
    <URL>http://weather.yahooapis.com</URL>
  </HTTPTargetConnection>
</TargetEndpoint>
```

Route Rules





Thank You