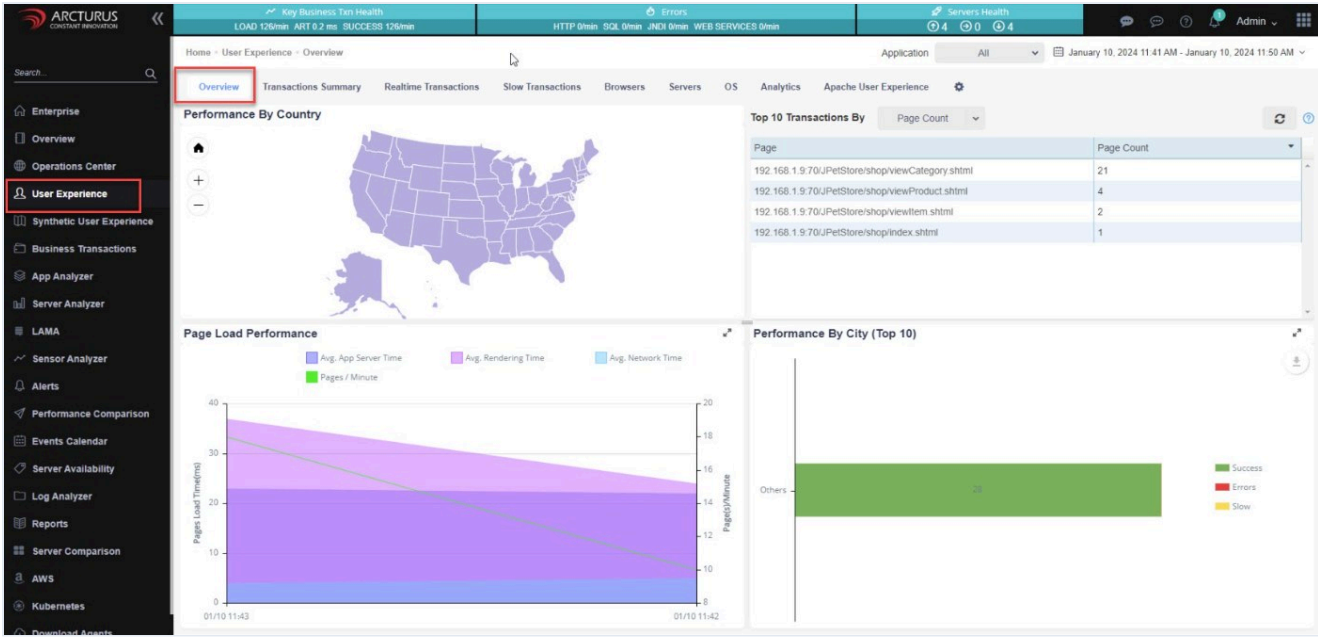
USING APPLICARE › USER EXPERIENCE MONITORING

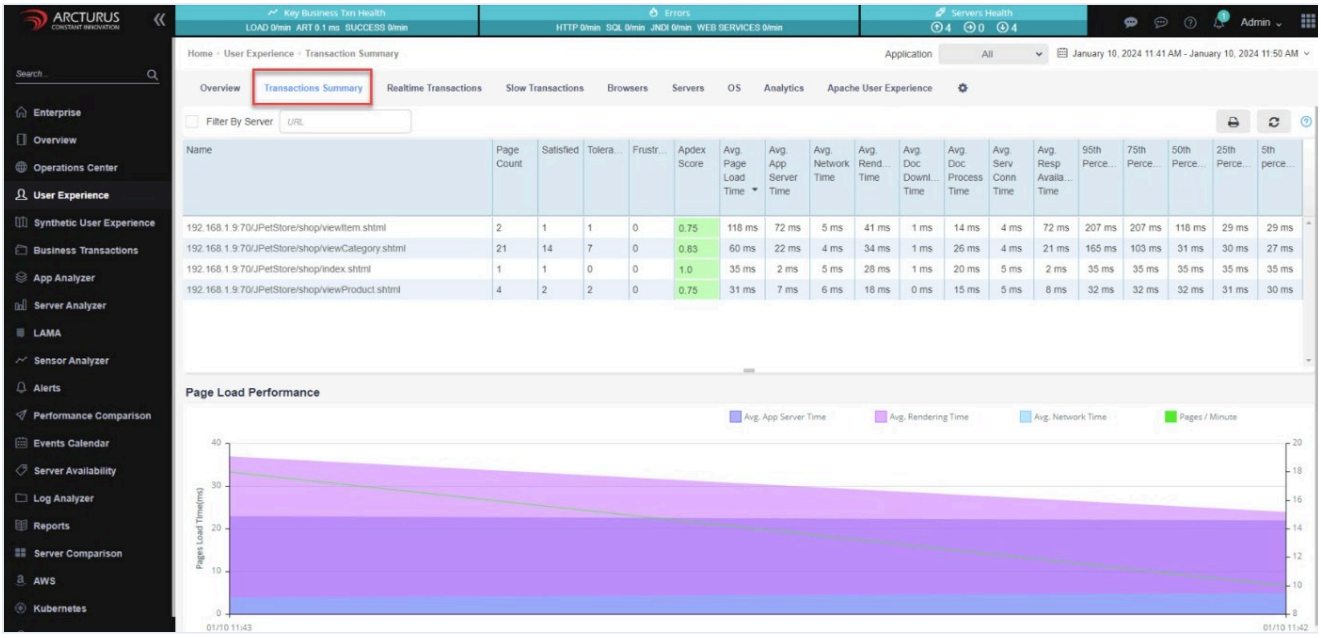
UEM Injection through the Applicare Reverse Proxy Server

Applicare 10.0 · Updated April 1, 2025 · **Pending technical review**

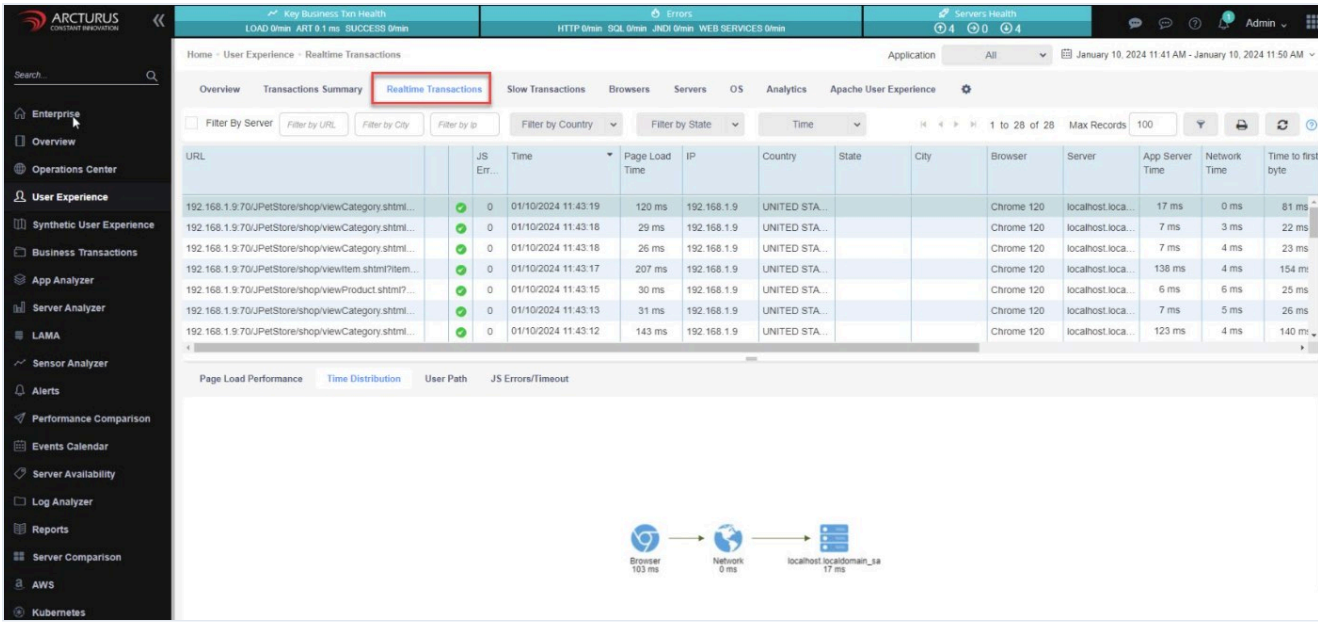
User Experience: An Overview



User Experience: Transaction Overview



User Experience: Real-Time Transactions



Steps to configure the Applicare reverse proxy server

Step 1: Download the Applicare Reverse Proxy Server from this link **download here.**

Step 2: Navigate to the path **<applicare_reverseProxy>/conf** and modify the **reverseproxy.conf** file.

Step 3: Change the **listen port** and **server_name** value inside the **server {** block.

listen -> Applicare reverse proxy server PORT

server_name -> Applicare reverse proxy server IP

```
server {
    listen       80;
    server_name  localhost;

    #charset koi8-r;

    #access_log  logs/host.access.log  main;

    location / {
        root   html;
        index  index.html index.htm;
    }
```

e.g.



Step 4: Add the **upstream** configuration before the **server {** block

Syntax:

```
TEXT
upstream UPSTREAM_REDIRECTOR_NAME {
    ip_hash;
    server REDIRECTOR_APPLICATION_IP:REDIRECTOR_APPLICATION_PORT;
}
```

Example:

```
TEXT
upstream petstoreredirect {
    ip_hash;
    server 192.168.0.165:8881;
}
```

Step 5: Add the new location block after the **location / {** block

Syntax:

```
TEXT
location /REDIRECTOR_APPLICATION_BASE_URL {
    proxy_pass REDIRECTOR_APPLICATION_PROTCOL://UPSTREAM_REDIRECTOR_NAME;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    sub_filter '</body>' '</body>new_string';
    sub_filter_once off;
}
```

Step 6: Replace the **REDIRECTOR_APPLICATION_BASE_URL** with the application base url.

REDIRECTOR_APPLICATION_BASE_URL -> JPetStore

```
TEXT
location /JPetStore {
```

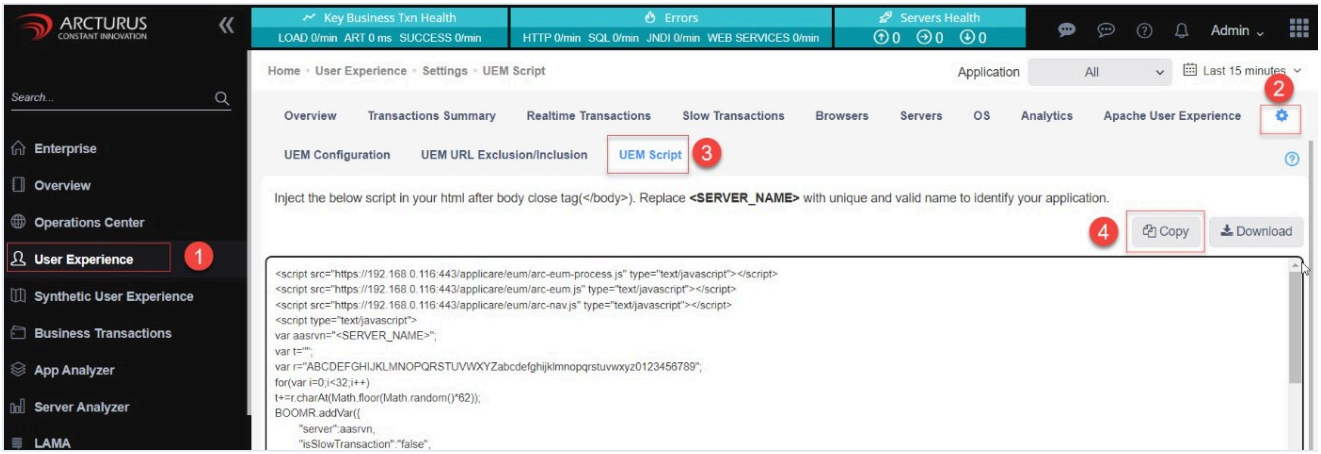
Step 7: Replace the **REDIRECTOR_APPLICATION_PROTCOL** and **UPSTREAM_REDIRECTOR_NAME**.

REDIRECTOR_APPLICATION_PROTCOL -> http

UPSTREAM_REDIRECTOR_NAME -> petstoreredirect

```
TEXT
proxy_pass http://petstoreredirect;
```

Step 8: Login to Applicare console and go to **User Experience -> Settings -> UEM Script** screen and **copy** the script and replace it in the place of **new_string** keyword in the sub_filter in the Nginx sever conf file.



The **conf file** will appear as shown below.

```
        location /JPetStore {
            proxy_pass http://petstoreredirect;
            proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
            sub_filter '</body>' '</body><script src="https://192.168.0.116:443/applicare/eum/arc-eum-process.js" type="text/javascript"></script>
<script src="https://192.168.0.116:443/applicare/eum/arc-eum.js" type="text/javascript"></script>
<script src="https://192.168.0.116:443/applicare/eum/arc-nav.js" type="text/javascript"></script>
<script type="text/javascript">
var aasrvn="<SERVER_NAME>";
var t="";
var r="ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";
for(var i=0;i<32;i++)
t+=r.charAt(Math.floor(Math.random()*62));
BOOMR.addVar({
    "server":aasrvn,
    "isSlowTransaction":"false",
    "avgTime":"0.0",
    "collectProcessListFor":"all",
    "percentile":"0.0",
    "traceId":t,
    "t_backend":"$request_time" * 1000,
    "b_name":BrowserDetect.browser,
    "b_ver":BrowserDetect.version,
    "clientId":0,
    "b_os":BrowserDetect.OS,
    "code":"200",
    "manual":"true",
    "eumId":t});
BOOMR.init({user_ip:"127.0.0.1",beacon_url:"https://192.168.0.116:443/applicare/eum/beacon"});
BOOMR.plugins.RT.startTimer("t_page");
if(!(window.arcPops && window.arcPops.errorInitiated)){
var oldOnError=window.onerror;
window.arcPops={errorInitiated:true};
var xhttp = new XMLHttpRequest();
window.onerror = function(msg, url, lineNo, columnNo, error){
if(oldOnError)oldOnError.apply(this, arguments);
var url="https://192.168.0.116:443/applicare/eum/beacon?serverName="+aasrvn+"&msg="+msg+"&lineNo="+lineNo+"&columnNo="+columnNo+"&eumId="+t+"&jser
navigator.sendBeacon(url);return false;}}
var originalSetRequestHeader = XMLHttpRequest.prototype.setRequestHeader;
XMLHttpRequest.prototype.setRequestHeader = function(header, value) {
originalSetRequestHeader.apply(this, arguments);
};
(function(open){XMLHttpRequest.prototype.open = function(method, url, async, user, password){function handleEvent(e) {
var beaconURL = "https://192.168.0.116:443/applicare/eum/beacon?serverName="+aasrvn+"&msg=Request Timeout&lineNo=&columnNo=&eumId="+t+"&jserror=tr
navigator.sendBeacon(beaconURL);
}function handleHeaderEvent(e) {
if (this.readyState === 1) {
this.setRequestHeader("_arc_req_st_time", Date.now());
}
}
this.addEventListener("abort", handleEvent);this.addEventListener("timeout", handleEvent);this.addEventListener("readystatechange", handleHeaderEve
open.apply(this, arguments);};})(XMLHttpRequest.prototype.open)
</script>';
            sub_filter_once off;
```

Step 9: Substitute the following values.

a. Replace **<SERVER_NAME>** with a unique identifier for your application.

b. Set the value from **"true"** to **"false"**.

c. In the **"t_backend"** section, update the value from **"0"** to **"$request_time" * 1000**




```
        location /JPetStore {
            proxy_pass http://petstoreredirect;
            proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
            sub_filter '</body>' '</body><script src="http://192.168.0.116:8882/applicare/eum/arc-eum-process.js" type="text/javascript"></script>
<script src="http://192.168.0.116:8882/applicare/eum/arc-eum.js" type="text/javascript"></script>
<script src="http://192.168.0.116:8882/applicare/eum/arc-nav.js" type="text/javascript"></script>
<script type="text/javascript">
var aasrvn="DESKTOP-L0HKKIU_sa";
var t="";
var r="ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789";
for(var i=0;i<32;i++)
t+=r.charAt(Math.floor(Math.random()*62));
BOOMR.addVar({
    "server":aasrvn,
    "isSlowTransaction":"false",
    "avgTime":"0.0",
    "collectProcessListFor":"all",
    "percentile":"0.0",
    "traceId":t,
    "t_backend":"$request_time" * 1000,
    "b_name":BrowserDetect.browser,
    "b_ver":BrowserDetect.version,
    "clientId":0,
    "b_os":BrowserDetect.OS,
    "code":"200",
    "manual":"false",
    "eumId":t});
BOOMR.init({user_ip:"127.0.0.1",beacon_url:"http://192.168.0.116:8882/applicare/eum/beacon"});
BOOMR.plugins.RT.startTimer("t_page");
if(!(window.arcPops && window.arcPops.errorInitiated)){
var oldOnError=window.onerror;
window.arcPops={errorInitiated:true};
var xhttp = new XMLHttpRequest();
window.onerror = function(msg, url, lineNo, columnNo, error){
if(oldOnError)oldOnError.apply(this, arguments);
var url="http://192.168.0.116:8882/applicare/eum/beacon?serverName="+aasrvn+"&msg="+msg+"&lineNo="+lineNo+"&columnNo="+columnNo+"&eumId="+t+"&jserror=tr
navigator.sendBeacon(url);return false;}}
var originalSetRequestHeader = XMLHttpRequest.prototype.setRequestHeader;
XMLHttpRequest.prototype.setRequestHeader = function(header, value) {
originalSetRequestHeader.apply(this, arguments);
};
(function(open){XMLHttpRequest.prototype.open = function(method, url, async, user, password){function handleEvent(e) {
var beaconURL = "http://192.168.0.116:8882/applicare/eum/beacon?serverName="+aasrvn+"&msg=Request Timeout&lineNo=&columnNo=&eumId="+t+"&jserror=true&err
navigator.sendBeacon(beaconURL);
}function handleHeaderEvent(e) {
if (this.readyState === 1) {
this.setRequestHeader("_arc_req_st_time", Date.now());
}
}
this.addEventListener("abort", handleEvent);this.addEventListener("timeout", handleEvent);this.addEventListener("readystatechange", handleHeaderEvent);
open.apply(this, arguments);};})(XMLHttpRequest.prototype.open)
</script>';
```

Step 10: Navigate to the <**applicare_reverseProxy>** home directory and run the following command to start.

```bat
startreverseproxy.bat
```

Step 11: Access the application through the Reverse Proxy server.

Syntax:

```xml
<REVERSE_PROXY_PROTOCOL>://<REVERSE_PROXY_IP>:
<REVERSE_PROXY_PORT>/REDIRECTOR_APPLICATION_BASE_URL
```

e.g.

```text
http://192.168.0.113:83/JPetStore
```

Step 12: Navigate to the <**applicare_reverseProxy>** home directory and run the following command to stop the Reverse Proxy Server.

```bat
stopreverseproxy.bat
```