



PureConnect®

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See [Change Log](#) for summary of changes.



CX Insights

Installation and Configuration Guide

Abstract

This document contains installation and configuration information for Pureconnect CX Insights, which provides real-time analytics dashboards.

For the latest version of this document, see the PureConnect Documentation Library at: <http://help.genesys.com/cic>.

For copyright and trademark information, see https://help.genesys.com/cic/desktop/copyright_and_trademark_information.htm.

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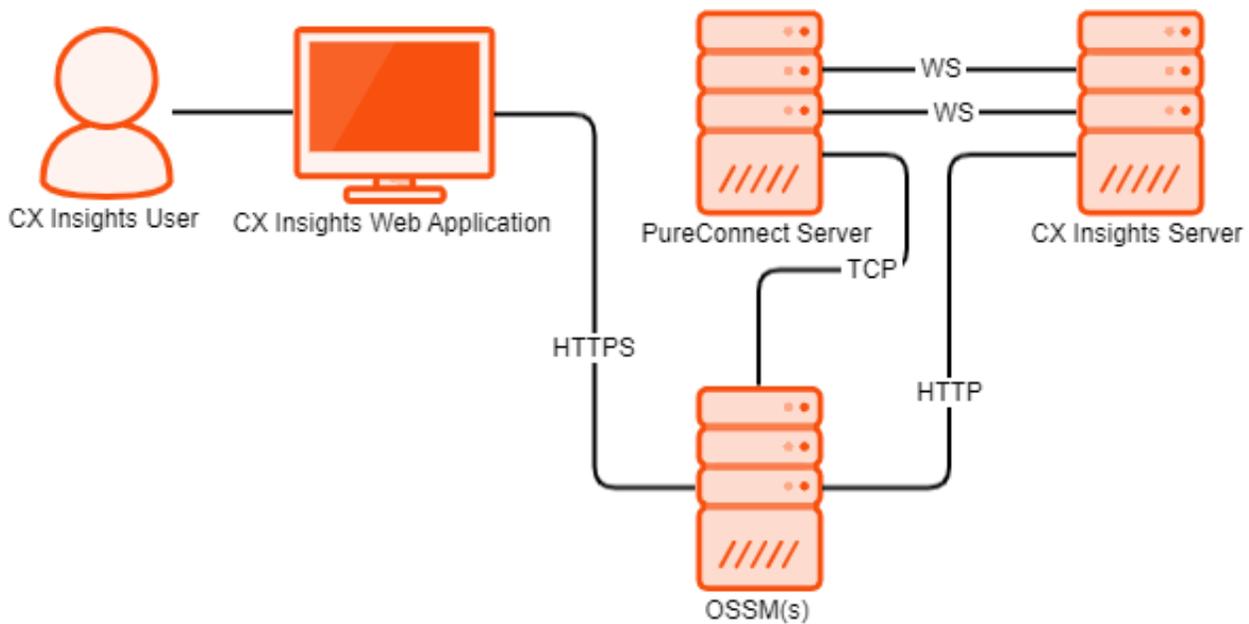
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CX Insights overview

CX Insights is a web-based application that allows you to display interactive dashboards to view and analyze real-time agent status and workgroup activity. Agent dashboard visualizations help you monitor agent status and agent interaction details in real time. Workgroup dashboard visualizations give supervisors a quick look at available agents and their current states. Each agent or supervisor requires an assigned Analytics Core User license in order to log in, and access permission to use the dashboards. CX Insights is built on the MicroStrategy Business Intelligence (BI) platform that runs best in a Linux environment. It is deployed as kubernetes through an Ansible playbook. CX Insights can be accessed on Google Chrome, Mozilla Firefox, Internet Explorer, and Safari.

CX Insights architecture

CX Insights deployment model



CX Insights server

The CX Insights server is a Linux server that uses Kubernetes to run the containerized version of the MicroStrategy BI platform, as well as integration containers used for interfacing with PureConnect. The primary driver of the following resource requirements is the MicroStrategy BI platform. It uses in-memory cubes to model incoming real-time statistics for use by visualizations in dashboards.

CX Insights web application

The CX Insights web application is built on the same framework as Interaction Connect and shares the same server requirements.

CX Insights prerequisites

CX Insights requirements

CX Insights server requirements

Hardware

Genesys has tested the following machine specifications to verify a deployment consisting of 1000 PureConnect users taking interactions across an average of 10 workgroups each. Significantly larger deployments may require additional CPU and RAM to retain performance for the increased incoming traffic from the PureConnect Server.

Component	Requirement
Platform	Virtual machine or physical server
CPU	<ul style="list-style-type: none">• 8 cores• AMD-V or VT-X VM-extensions
RAM	32 GB
Storage space	512 GB
Swap partition	32 GB

Software

Important!

During installation of Centos, you must include Virtualization Host to minimize the amount of additional configuration required to get Kubernetes running.

Component	Requirement
Operating system	Centos 7
Software components	Virtualization Host: <ul style="list-style-type: none">• KVM• QEMU• QEMU+KVM• Libvirt

CX Insights licensing

CX Insights requires an Analytics access license for users and an Analytics feature license.

Analytics access licenses

To confirm that you have the access licenses, go to the **License Management** form in Interaction Administrator and verify the following licenses on the **Licenses** tab.

License	Description
I3_ACCESS_ANALYTICS_CORE	Basic dashboard license to view dashboards.
I3_ACCESS_ANALYTICS_ENTERPRISE	Allows users to create and modify dashboards. Allows external data sources to build dashboards.

License Management

Licenses Features

Title	Assignable Allowed	Assignable Configured	Concurrent Allowed	Concurrent Configured	Concurrent In Use
I3_ACCESS_ACD_MEDIA_1	100	1	100	0	0
I3_ACCESS_ACD_MEDIA_2	100	0	100	0	0
I3_ACCESS_ACD_MEDIA_3_PLUS	100	9	100	0	0
I3_ACCESS_ACD_SOCIAL_MEDIA	100	8	100	0	0
I3_ACCESS_ACD_WHATSAPP	100	0	0	0	0
I3_ACCESS_ALTOCLOUD_USER	100	1	0	0	0
I3_ACCESS_ANALYTICS_CORE	100	1	100	0	0
I3_ACCESS_ANALYTICS_ENTERPRISE	100	2	100	0	0
I3_ACCESS_ANALYZER	100	4	100	0	0
I3_ACCESS_APPLICATION_PORT_ADDON	100	0	100	0	0

Trial Dates: 2019-10-24 - 2020-04-24

Buttons: Load License, View Host ID, Refresh, Close

The **License Management** dialog displays the number of available licenses.

Analytics feature license

To confirm that you have the Analytics feature license, go to the **License Management** form in Interaction Administrator and on the **Features** tab, verify the **I3_FEATURE_ANALYTICS** license.

License Management

Licenses Features

Name

- I3_FEATURE_2_3_1_FP1
- I3_FEATURE_2_4_FPCLIENT
- I3_FEATURE_AD_HOC
- I3_FEATURE_ADVANCED_CAMPAIGN_MANAGEMENT
- I3_FEATURE_ADVANCED_SECURITY
- I3_FEATURE_ALTERNATE_FIRMWARE_DISTRIBUTION
- I3_FEATURE_ANALYTICS
- I3_FEATURE_ANALYZER
- I3_FEATURE_ANALYZER_LANGUAGE_CA
- I3_FEATURE_ANALYZER_LANGUAGE_DE

Trial Dates: 2018-02-23 - 2018-08-23

Buttons: Load License, View Host ID, Close

If a license is not present or you do not have enough licenses, contact your sales representative.

CX Insights server installation

CX Insights server installation

The CX Insights server hosts the MicroStrategy BI platform, which is the backend for providing real-time analytics and dashboards in the CX Insights web application.

Note: To set up a server and configure the following instructions a knowledgeable Linux administrator with Centos familiarity is required.

Prerequisite

- CIC version must be 2020R2 release.

Important:

- For versions older to 2020R2, CX Insights App does not work and also will not support kubernetes installation with caveat.
- For version CIC 2020R1, require few settings after kubernetes installations.

Install CX Insights server

1. Install Centos7 on either a physical or virtual server that meets the minimum requirements for the production environment
 - 8+ vcpu
 - 32 GB RAM
 - 512 GB total storage space
 - 100+ GB root directory storage

Note: Make sure that the swap partition is at least 32 GB when installing Centos.

2. Download the CX Insights deployment containers from the following website:

<https://help.genesys.com/utilities-and-downloads.html>

3. Extract the CX Insights artifacts archive that contains `ansible_install`, `cxinsights-playbook-k3s.tgz`, `pcon-mstr.zip`, and `cx-insights.tgz`.
4. Run the shell script `ansible_install.sh` to install the dependencies like the python and ansible packages using the root user account. The script also creates a CX Insights user account to perform all the ansible roles and tasks.

Notes:

- If the Centos already installed pip, then ensure that pip is version 8.1.2, which is compatible with python 2.7.5 version. Using a different version may cause the installation to fail.
- Verify whether ansible is installed by using the command `which ansible`. If ansible is installed, then the ansible version appears. If it is not installed, then re-run the `ansible_install` shell script.
- Verify whether the CX Insights account was created by using the command `cut -d: -f1 /etc/paswd`. Once created, log in to the CX Insights account.
 - `su cxinsights`

5. Complete the prerequisites for running ansible-playbook:

- Extract the cxinsights-playbook-k3s.zipfile to the CX Insights user home directory.
- Generate ansible vault for CX Insights user password, as it is required by ansible modules to install k3s, helm and tiller.
 - Ansible-vault encrypt_string 'passwd' --name 'helm_linux_host_passwd' --vault-id cxinsights@prompt, replace *passwd* with CX Insights user account password. For vault usage, enter the password and make a note of it, so that you can enter the same password while running anisble-playbook command
 - Ansible-vault encrypt_string 'passwd' --name 'tiller_linux_host_passwd' --vault-id cxinsights@prompt, generate the password again only if you are planning to keep controller and CX Insights server separately. Else, add the above generate vault value in both helm_linux_host_passwd and till_linux_host_passwd in the group_vars/all.yml file as shown below

```

cxinsights@qf-cx-docker:~/pcc-cxinsights-playbook
rel_name: pcc-helmcharts
upstream_chart: /home/cxinsights/pcc-cxinsights-playbook/pcon-mstr
values_file: /home/cxinsights/pcc-cxinsights-playbook/values.yml

k3s_config_dir: ~/.kube
temp_loc: /tmp
k3s_file: k3s.yaml
k3s_remote_file: "/etc/rancher/k3s/{{ k3s_file }}"
k3s_config: "{{ k3s_config_dir }}/config"

helm_linux_host_user: 'cxinsights'
helm_linux_host_passwd: !vault |
    $ANSIBLE_VAULT;1.2;AES256;cxinsights
    616365353266396666239306235326131656333064646334666434386164393064343061353139
    3732313133373961313639343739366137326331663234610a6261346663131363564393830393039
    623965316636646234363030323838613933164386235333736303465316235363339333034373563
    3461306464616666300a3963663666343464363663373733643432633066643936323535363966630
    6637

tiller_linux_host_user: 'cxinsights'
tiller_linux_host_passwd: !vault |
    $ANSIBLE_VAULT;1.2;AES256;cxinsights
    30353265313036343933656165623965613262656539663962333630663531376135366261386564
    6132633435323835333834373432646634323063313931370a336466373030326466653262383330
    63613132643037313539633961336433633531353262336232626137393630383261396663313734
    3439623936313961660a613263363837303261363838313331323236306139313035346164646532
    3230
  
```

- Ensure host has proper hostname(FDQN), change the host details in *values.yml* file to the Linux host for the CX Insights install, and then ensure that the time zone details are mapped with the region where *gcxi* server is to be installed.

```

gcxi:
  gcxiproperties:
    proxyRewriteUrl: /analytics
    pconLocale: en_us
  secret: analytics
  global:
    tz: America/Indiana/Indianapolis
  hosts:
    - <host QDN>
  
```

- Substitute the appropriate values in the *inventory.yml* file in the *cxinsights-playbook-k3s* directory. For example, assume ansible and K3S are running on the same machine. If the controller is different from the target machine, then *helm_linux_host* should be the controller host FQDN and *tiller-linux-host* should be the FQDN of the CXInsights server host.

```

---
helm_linux_host:
  hosts:
    xxx-xxxxx-xxxxx.xxxxxxx.com
  vars:
    ansible_user: '{{ user }}'
    ansible_ssh_pass: '{{ passwd }}'
  tiller_linux_host:
  hosts:
    xxx-xxxxx-xxxxx.xxxxxxx.com
  vars:
    ansible_user: '{{ user }}'
    ansible_ssh_pass: '{{ passwd }}'
  
```

- After substituting the appropriate values, the local images can be loaded into the K3S registry if there is no access to the

root artifactory from which the images need to be pulled. Complete the following configuration steps in an ansible role:

- Navigate to the `../cxinsights-playbook-k3s/roles/load-images/vars` path. Right-click and open `main.yml` in edit mode.
- Change `load_image False` to `load_image: True`.
- Change `tar_file: 'cxinsights.tgz'` to `tar_file : <Name of the docker images .tgz file (a big zip file, sizing around 12+ GB)>`

Note: Make sure the large `.zip` file is placed under the `../cxinsights-playbook-k3s` directory only.

6. Run the ansible playbook to start the services on the CX Insights server. The first time may take longer as dependencies are installed.

- `sudo ansible-playbook --vault-id cxinsights@prompt -i inventory.yml site.yml -K`

Note: Make sure you enter the CX Insights password when the BECOME password is requested.

- Run the below mentioned commands to ensure that everything is up and running:
 - To verify that all the containers are up and running in all namespaces, use the command `kubectl get pods -A`
 - To verify that all the containers are up and running only in `pcn-cxinsights-system` namespace, use the command `kubectl get pods --namespace=pcn-cxinsights-system`

```
cxinsights@qf-cx-docker:~/cxinsights-playbook-k3s
[cxinsights@qf-cx-docker cxinsights-playbook-k3s]$ kubectl get pods --namespace=pcn-cxinsights-system
NAME                                READY   STATUS    RESTARTS   AGE
pcn-cxinsights-helmcharts-gcxi-64dc7d94cf-149gc   0/1     Pending  0           22h
pcn-cxinsights-helmcharts-gcxi-postgres-d6676fbc6-wqd86   1/1     Running   0           22h
pcn-cxinsights-helmcharts-mstrconnector-5b64f74bff-xtlpc   0/1     Running   0           22h
pcn-cxinsights-helmcharts-mstrdataadapterserver-5dc956d459dbzvp   0/1     Running   0           22h
pcn-cxinsights-helmcharts-mstrdataadapteragent-6d99cd4df4-lxxh5   1/1     Running   0           22h
[cxinsights@qf-cx-docker cxinsights-playbook-k3s]$
```

- To verify that all the services are running in all namespaces, use the command `kubectl get services -A`
- To verify that all the services are running only in the `pcn-cxinsights-system` namespace, use the command `kubectl get services --namespace=pcn-cxinsights-system`

```
cxinsights@qf-cx-docker:~/cxinsights-playbook-k3s
[cxinsights@qf-cx-docker cxinsights-playbook-k3s]$ kubectl get services --namespace=pcn-cxinsights-system
NAME                                TYPE           CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
pcn-cxinsights-helmcharts-pcon-mstr   ClusterIP      192.168.194.246  <none>           80/TCP           22h
pcn-cxinsights-helmcharts-mstrdataadapterserver-agentgateway   ClusterIP      192.168.166.236  <none>           8079/TCP         22h
pcn-cxinsights-helmcharts-mstrdataadapterserver   ClusterIP      192.168.206.232  <none>           8078/TCP, 9090/TCP  22h
pcn-cxinsights-helmcharts-mstrdataadapteragent   ClusterIP      192.168.231.167  <none>           9090/TCP         22h
pcn-cxinsights-helmcharts-gcxi        ClusterIP      192.168.183.216  <none>           34952/TCP, 8080/TCP  22h
pcn-cxinsights-helmcharts-mstrconnector   ClusterIP      192.168.142.47   <none>           8077/TCP, 9090/TCP  22h
gcxi-postgres                          ClusterIP      192.168.137.210  <none>           5432/TCP, 9090/TCP  22h
[cxinsights@qf-cx-docker cxinsights-playbook-k3s]$
```

- To verify all of the persistent volumes in all namespaces, use the command `kubectl get pvc -A`
- To verify the persistent volumes only in `pcn-cxinsights-system` namespace, use the command `kubectl get pvc --namespace=pcn-cxinsights-system`

```
cxinsights@pcn-cent7-k3s01:~
[cxinsights@pcn-cent7-k3s01 ~]$ kubectl get pvc --namespace=pcn-cxinsights-system
NAME      STATUS   VOLUME                                     CAPACITY   ACCESS MODES   STORAGECLASS   AGE
gcxi-log   Bound    pvc-b6d9f121-77dc-4d10-93e9-a932f0e14bcf   2Gi        RWO            local-path     13d
gcxi-data  Bound    pvc-30e7b3ed-8b56-476c-881d-7b1c3a0da536   8Gi        RWO            local-path     13d
gcxi-shared Bound    pvc-09b8c38a-2283-458e-894a-63faf2c502aa   1Gi        RWO            local-path     13d
gcxi-volume Bound    pvc-e0fefb0d-4624-4ce4-bce7-2bceff7ec0b6   2Gi        RWO            local-path     13d
cube      Bound    pvc-67f2cbcd-abb6-4da1-8053-3b7605cac2f3   1Gi        RWO            local-path     13d
[cxinsights@pcn-cent7-k3s01 ~]$
```

Note: If any of the above-mentioned commands fail to show the list, then run `helm delete --purge pcn-cxinsights-helmcharts --tiller-namespace pcn-tiller-system` command to delete the deployment and then run the `ansible-playbook` again.

Settings for CIC 2020R1 version

For CIC 2020R1 version, copy the below mentioned content in `traefik_custom.yaml` file and then run the `kubectl apply -f traefik_custom.yaml` command.

```

apiVersion: helm.cattle.io/v1
kind: HelmChart
metadata:
  name: traefik
  namespace: kube-system
spec:
  chart: https://%{KUBERNETES_API}%/static/charts/traefik-1.77.1.tgz
  set:
    rbac.enabled: "true"
    ssl.enabled: "true"
    metrics.prometheus.enabled: "true"
    kubernetes.ingressEndpoint.useDefaultPublishedService: "true"
    gzip.enabled: "false"

```

Upgrade containers

To upgrade the containers, use this command `sudo ansible-playbook -i inventory.yml site_upgrade.yml -K`. Ensure that proper tag names are updated in `values.yml` for the containers that need to be upgraded. If there is only one container that must be upgraded, then add a tag for the corresponding container and you can omit the rest of the properties.

```

gcxi:
  image:
    tag: 2.0
    tagcontrol: 2.0
gcxi-postgres:
  image:
    tag: 2.0
mstrconnector:
  image
    tag: 2.0
mstrdataadapteragent:
  image:
    tag: 2.0
mstrdataadapterserver:
  image:
    tag: 2.0

```

Rollback containers

To get the list of versions installed, use the command `helm history pcc-helmcharts --tiller-namespace pcc-tiller-system`, sample output as shown.

```

[cxinsights@qf-cx-docker pcc-cxinsights-playbook]$ helm history pcc-helmcharts --tiller-namespace pcc-tiller-system
REVISION      UPDATED          STATUS      CHART          DESCRIPTION
1             Fri Mar 6 06:57:32 2020      SUPERSEDED    pcon-mstr-0.1.0 Install complete
2             Fri Mar 6 07:18:08 2020      SUPERSEDED    pcon-mstr-0.1.0 Upgrade complete
3             Fri Mar 6 07:32:30 2020      DEPLOYED      pcon-mstr-0.1.0 Rollback to 1

```

Replace the version number that need to be rolled back in `roles/helm-chart-rollback/vars/main.yml` file and run the `sudo ansible-playbook --vault-id cxinsights@prompt -i inventory.yml site_rollback.yml -Kcommand`.

Deleting setup

Use the `sudo ansible-playbook --vault-id cxinsights@prompt -i inventory.yml site_delete.yml -K` command to delete all the pods, services, ingress endpoints, and persistent volumes. This is equivalent to the `helm delete` command.

CX Insights monitoring and alerting

Prometheus is a third-party tool used to monitor health check of containers. It provides an alerting mechanism for critical scenarios.

Install Prometheus

1. Download Prometheus from <https://prometheus.io/download/> and extract the files from the folder.
2. Copy [alerts.yml](#) to the Prometheus folder and update the prometheus.yml *rule_files* property with *alerts.yml*.
3. Update Prometheus.yml with the below mentioned content and replace <SERVER> with Linux host (where all the containers are up and running). A reference to the alerts.yml file in the rules_files section contains all the alert scenarios. Scrape_interval is the interval in which data is pulled from all the services and evaluation_interval applies rules for the data.

```
# my global config
global:
  scrape_interval: 15s # Set the scrape interval to every 15 seconds. Default is every 1
  minute.
  evaluation_interval: 15s # Evaluate rules every 15 seconds. The default is every 1 minute.
  # scrape_timeout is set to the global default (10s).
  # Alertmanager configuration
  alerting:
    alertmanagers:
      - static_configs:
        - targets:
          # - alertmanager:9093
      # Load rules once and periodically evaluate them according to the global
      'evaluation_interval'.
    rule_files:
      - alerts.yml
      # - "first_rules.yml"
      # - "second_rules.yml"
      # A scrape configuration containing exactly one endpoint to scrape:
      # Here it's Prometheus itself.
  scrape_configs:
    # The job name is added as a label `job=<job_name>` to any timeseries scraped from this
    config.
    - job_name: 'DataAdapterServer'
      metrics_path: /DataAdapterServerMetrics
      static_configs:
        - targets: ['<SERVER>']
        - job_name: 'Connector'
          metrics_path: /ConnectorMetrics
          static_configs:
            - targets: ['<SERVER>']
            - job_name: 'Postgress'
              metrics_path: /PostgresMetrics
              static_configs:
                - targets: ['<SERVER>']
                - job_name: 'DataAdapterAgent'
                  metrics_path: /DataAdapterAgentMetrics
                  static_configs:
                    - targets: ['<SERVER>']
                    - job_name: 'GCXI'
                      static_configs:
                        - targets: ['<SERVER>']
                        relabel_configs:
                          - source_labels:
                            - __metrics_path__
                            action: replace
                            target_label: __metrics_path__
                            replacement: /mstr-integrationapi/GcxiMetrics
                      }

```

4. After running the Prometheus executable file, verify that <http://localhost:9090/rules> is accessible and all rules are properly defined. Verify that warning and critical alerts are configured, and warning is of less priority, If there are any critical alerts raised, then file a ticket with proper logs.
5. The <http://localhost:9090/targets> shows the container state.

Prometheus Alerts Graph Status Help

All Unhealthy

Connector (1/1 up) [show less](#)

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://pcn-cent7-k3s04.ininlab.com:80/ConnectorMetrics	UP	instance="pcn-cent7-k3s04.ininlab.com:80" job="Connector"	11.988s ago	661.6ms	

DataAdapterAgent (1/1 up) [show less](#)

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://pcn-cent7-k3s04.ininlab.com:80/DataAdapterAgentMetrics	UP	instance="pcn-cent7-k3s04.ininlab.com:80" job="DataAdapterAgent"	8.275s ago	3.639s	

DataAdapterServer (1/1 up) [show less](#)

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://pcn-cent7-k3s04.ininlab.com:80/DataAdapterServerMetrics	UP	instance="pcn-cent7-k3s04.ininlab.com:80" job="DataAdapterServer"	5.304s ago	658.4ms	

GCXI (1/1 up) [show less](#)

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://pcn-cent7-k3s04.ininlab.com:80/mstr-integrationapi/GcxiMetrics	UP	instance="pcn-cent7-k3s04.ininlab.com:80" job="GCXI"	1.803s ago	328.8ms	

Postgress (1/1 up) [show less](#)

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://pcn-cent7-k3s04.ininlab.com:80/PostgresMetrics	UP	instance="pcn-cent7-k3s04.ininlab.com:80" job="Postgress"	1.357s ago	340.1ms	

- View alerts information in <http://localhost:9090/alerts>
- To receive e-mail notifications/pagerduty, configure alertmanager. Refer to <https://prometheus.io/docs/alerting/alertmanager/> to configure alertmanager. For download details, refer to <https://prometheus.io/download/>.
- After downloading, configure the prometheus.yml with alert manager in the # Alertmanager configuration.

```

alerting:
  alertmanagers:
  - static_configs:
    - targets:
      - alertmanager:9093

```

- To receive email notifications from alert manager, configure alertmanager.yml as shown below.

```

route:
  group_by: ['alertname']
  group_wait: 30s
  group_interval: 10s
  repeat_interval: 20s
  receiver: 'email-me'
receivers:
- name: 'email-me'
email_configs:
- to: xxxxxx@gmail.com
  from: xxxxxx@gmail.com
  smarthost: smtp.gmail.com:587
  auth_username: "xxxxxxx@gmail.com"
  auth_password: "xxxxxxx"

```

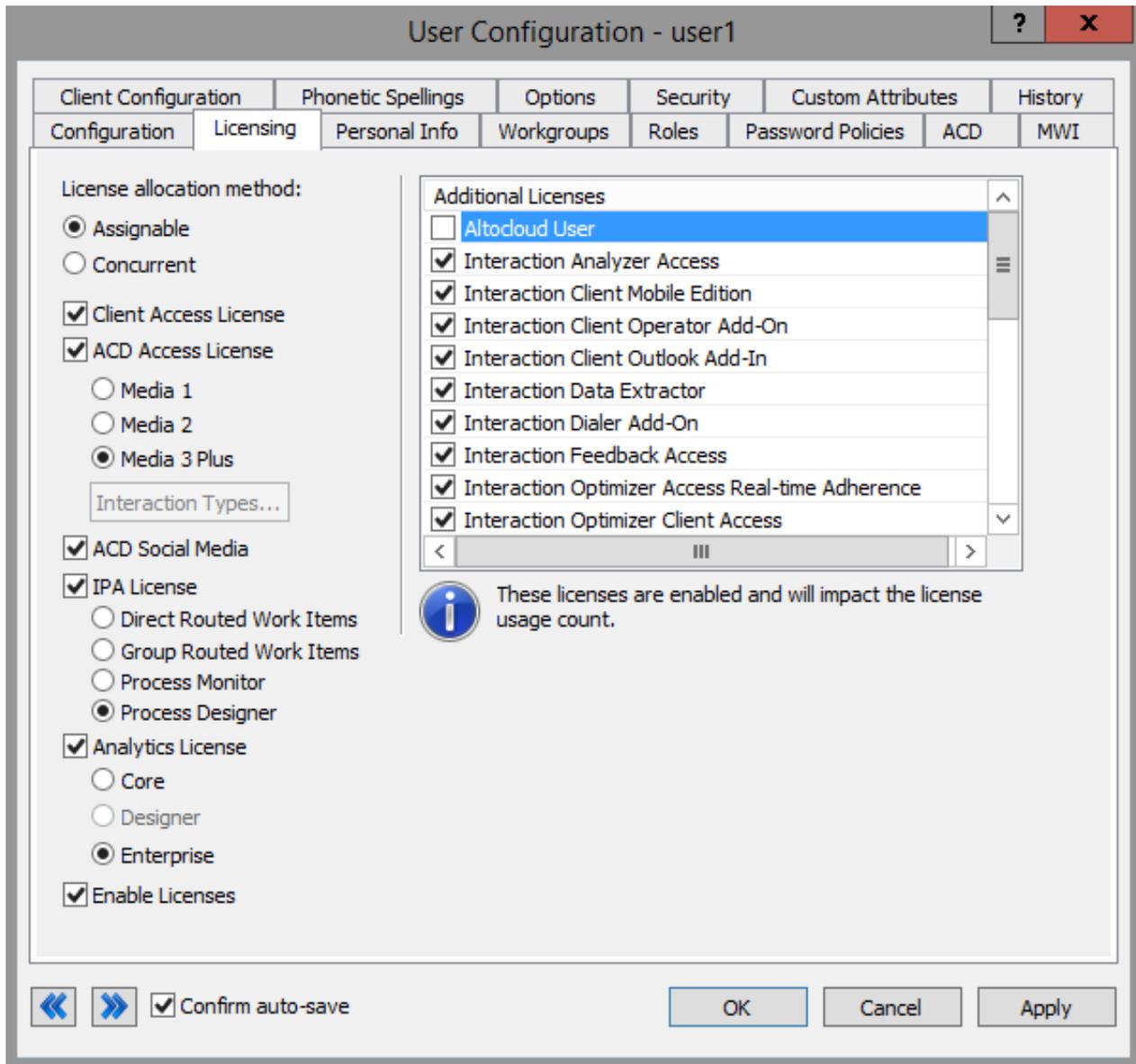
CX Insights server configuration

CX Insights server configuration

To configure the CX Insights server settings in Interaction Administrator, use the following procedure.

Allocate Access licenses

Allocate a CX Insights **Analytics License** for each user in Interaction Administrator on the **Licensing** tab.



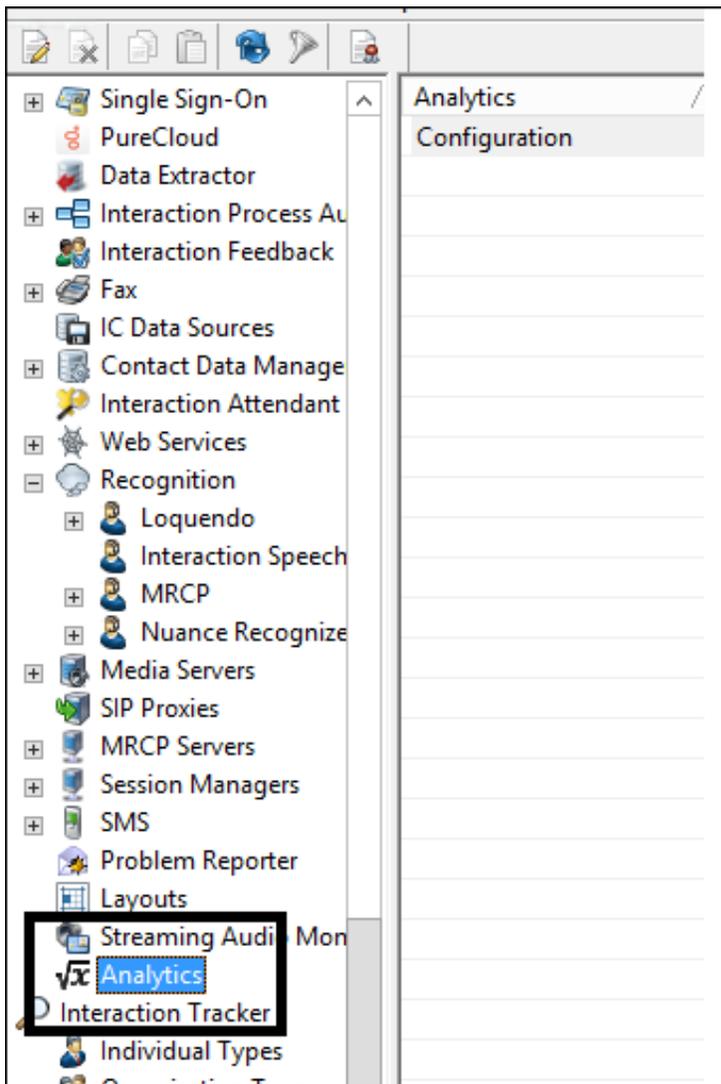
To assign an Analytics license to a user, select the **Analytics License** check box and select one of the following licenses.

CORE	Basic dashboard license to view dashboards
ENTERPRISE	This license will allow users to create and modify dashboards and also allows external data sources to build dashboards

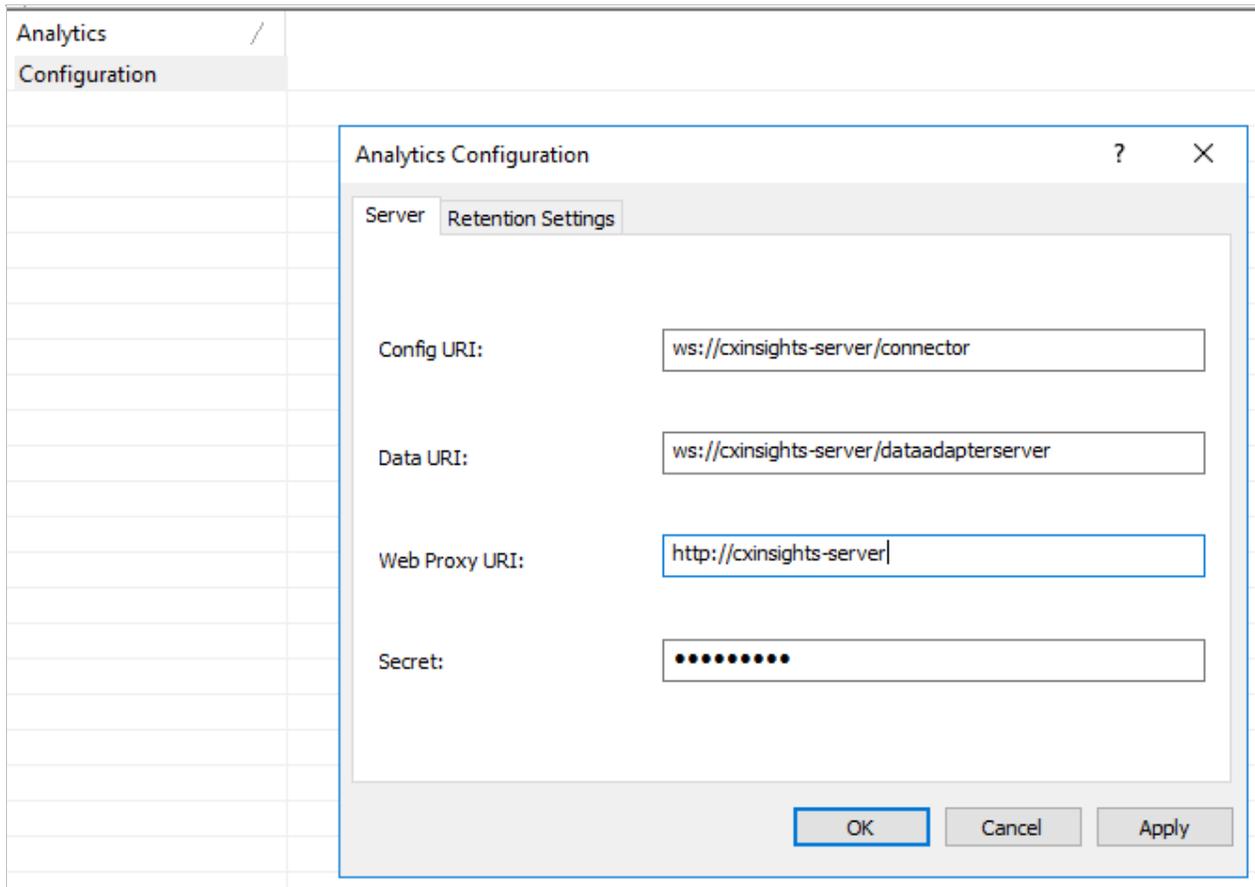
Configure CX Insights server in Interaction Administrator

Once the CX Insights server is up and running, the next step is to configure the PureConnect (CIC) server and connect it to the CX Insights server.

1. Apply the I3_FEATURE_ANALYTICS license to the PureConnect server.
2. Open Interaction Administrator and open the Analytics node under **System Configuration**.



3. In the **Analytics** workspace, click **Configuration**. The **Analytics Configuration** dialog is displayed.



- The Config URI is the websocket address that PureConnect will use to synchronize configuration and security with the CX Insights server. (default port shown)
- The Data URI is the websocket address that PureConnect will stream real-time statistics to the CX Insights server.
- The Web Proxy URI is the target URL used by HttpPluginHost to route web requests.
- The Secret is the websocket_auth_secret that was entered into the inventory file when deploying the CX Insights Server.

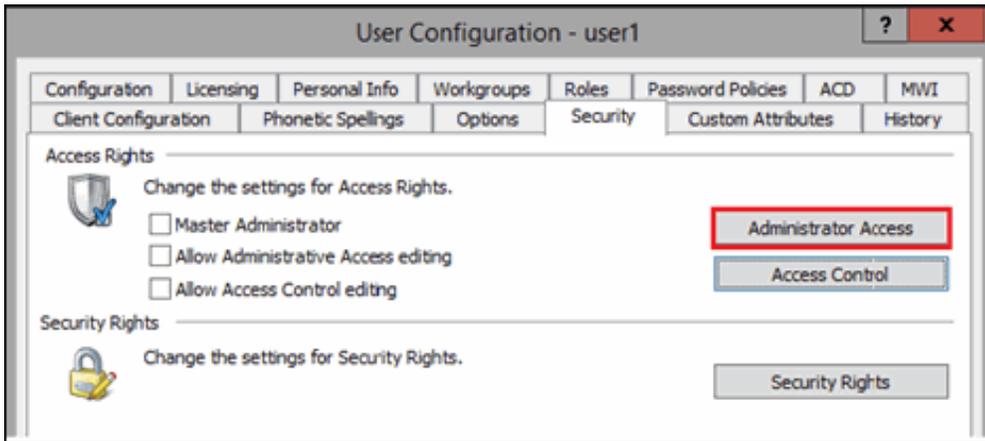
Once the configuration is complete, the AnalyticsBridge subsystem attempts to make the connections with the configured websocket. If the connection is successful, then the synchronization process begins. If there is a large number of users and workgroups to transfer, then it may take a few minutes to complete the process. Any additional changes to users, roles, workgroups, access controls, or memberships will trigger additional synchronization cycles. Once the servers are synchronized, the AnalyticsBridge subsystem begins streaming real-time statistics over the data websocket. Then, the users should be able to view the real-time dashboards.

Configure Administrator Access for CX Insights

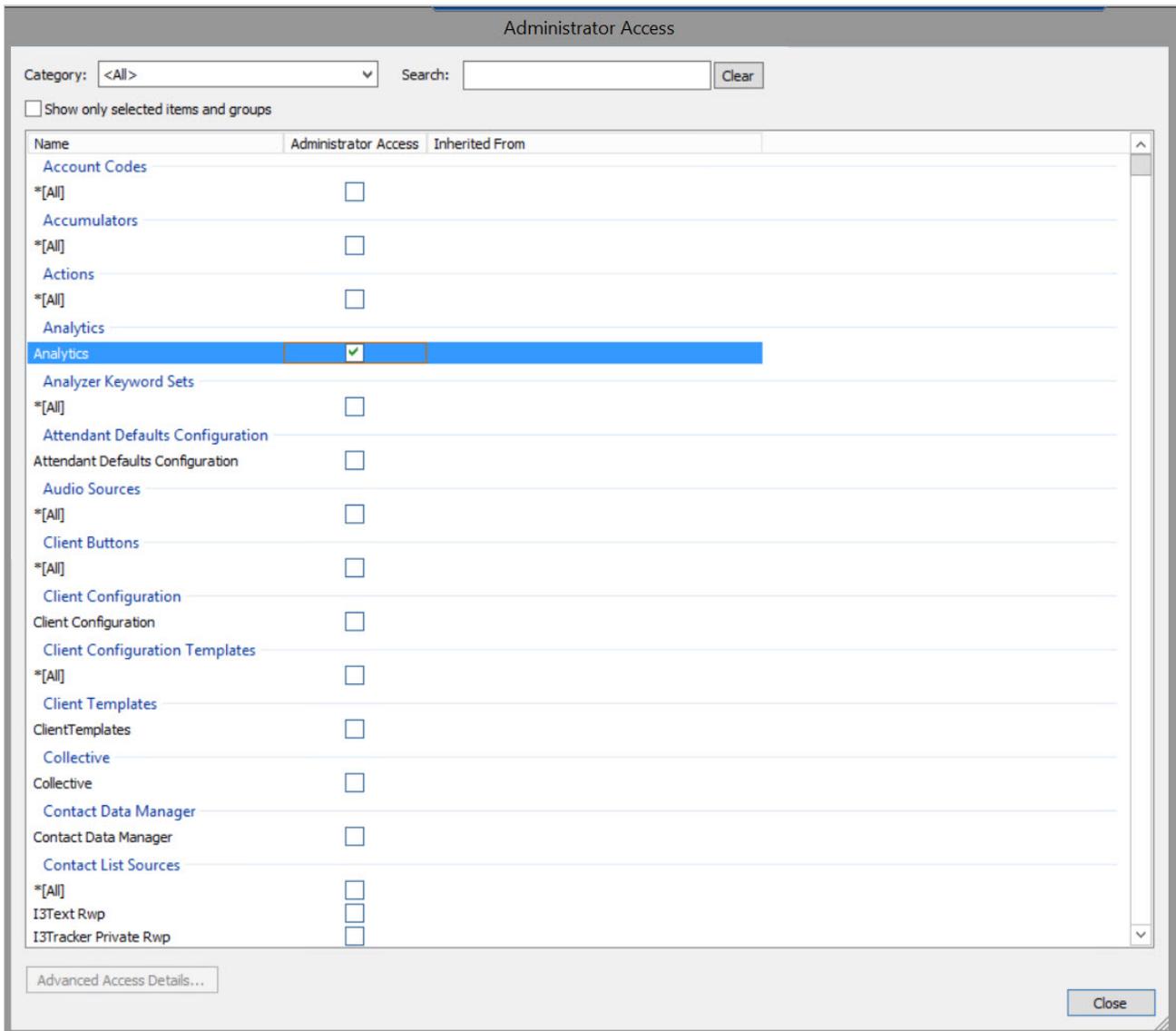
You can restrict which users, workgroups, or roles have access to configure the Analytics feature.

To assign administrator access for Analytics:

1. In Interaction Administrator, go to the **User, Workgroup, or Role** properties dialog box.
2. Select the **Security** tab.



3. Click **Administrator Access**.
4. In the **Administrator Access** dialog, type `analytics` in the **Search** field to filter the list.



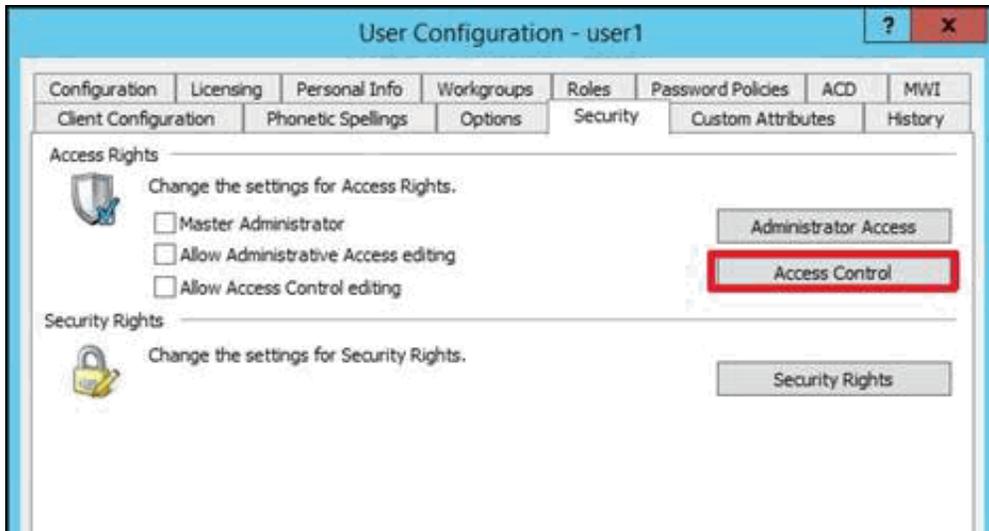
5. To give a user, workgroup, or role administrator rights to the Analytics feature, select the **Analytics** check box. You can clear the check box to remove the privilege.
6. Click **Close**.
7. To save the settings, click **OK** or **Apply**.

Configure Access Control for CX Insights dashboards

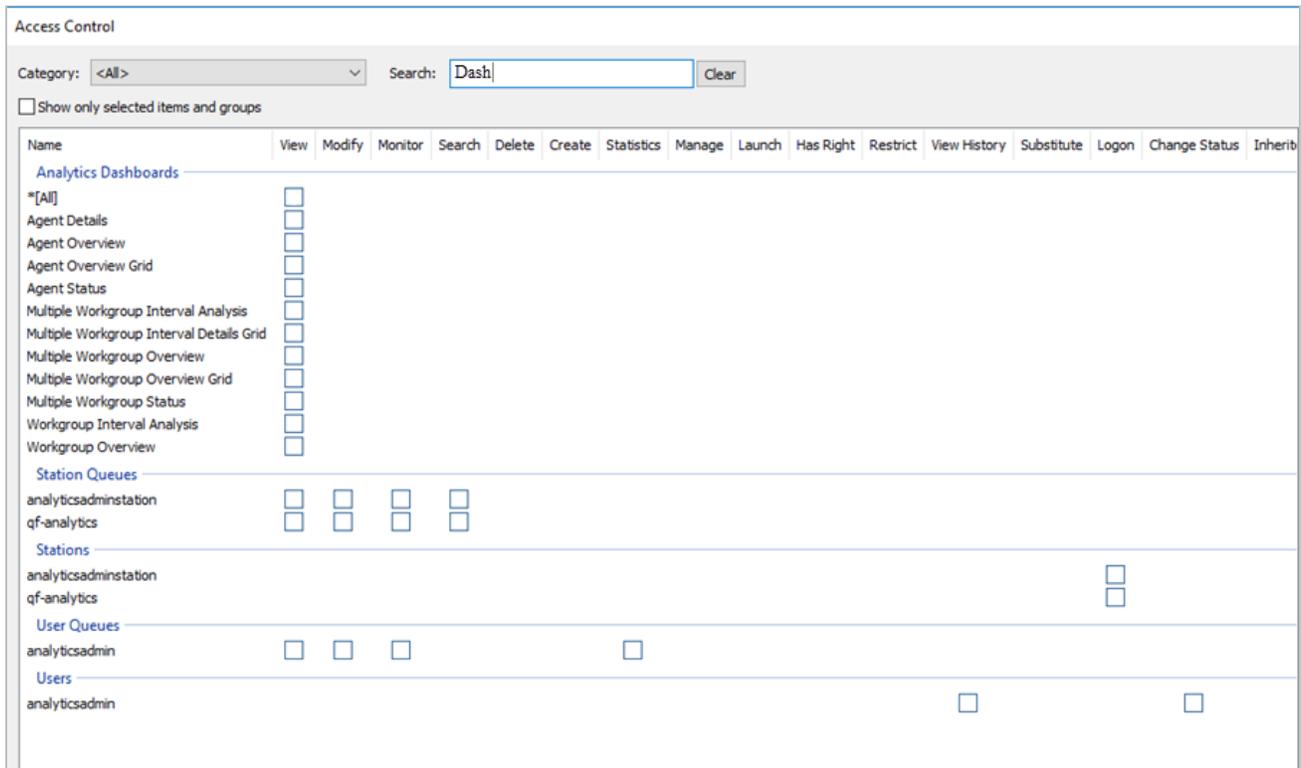
You can restrict which users, workgroups, or roles have access to specific dashboards.

To assign dashboard access:

1. In Interaction Administrator, go to the **User, Workgroup, or Role** properties dialog.
2. Select the **Security** tab.



3. Click **Access Control**.
4. In the **Access Control** dialog, type `dashboards` in the search field to filter the list.



Note:

If the IC Server is in sync with the MicroStrategy server, then the check boxes for all the dashboards are displayed.

5. To assign a user, workgroup, or role access to the dashboard, select the dashboard check box, or select **All** to assign access to all dashboards. Clear a check box to remove the privilege.

6. Click **Close**.
7. Click **OK** or **Apply** to save the settings.

Install and configure CX Insights web application

Install CX Insights web application

To host CX Insights web application on web servers, follow the instructions defined in [CIC Web Applications Installation and Configuration Guide](#) or download the [PDF file](#). CX Insights web application does not need any additional inbound or outbound rules to be applied in case of Internet usage.

Public domain purpose

To deploy the CX Insights web application for public domain or on PureConnect Cloud, the following configuration is required.

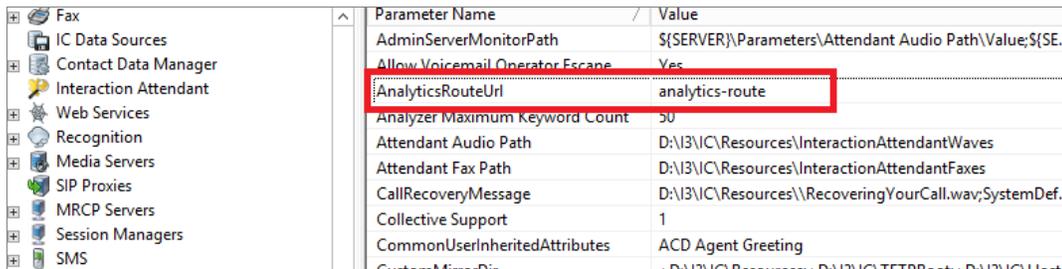
WebServer configuration

You can install and configure CX Insights on any of the following web platforms:

- Microsoft Internet Information Server (IIS)
- Apache HTTP Server
- Nginx Server

CIC server configuration

Apart from this configuration on the web server, you must define one server parameter on the CIC server:



Parameter Name	Value
AdminServerMonitorPath	\$(SERVER)\Parameters\Attendant Audio Path\Value;\$(SE...
Allow Voicemail Operator Escape	Yes
AnalyticsRouteUrl	analytics-route
Analyzer Maximum Keyword Count	50
Attendant Audio Path	D:\I3\IC\Resources\InteractionAttendantWaves
Attendant Fax Path	D:\I3\IC\Resources\InteractionAttendantFaxes
CallRecoveryMessage	D:\I3\IC\Resources\RecoveringYourCall.wav;SystemDef...
Collective Support	1
CommonUserInheritedAttributes	ACD Agent Greeting
CustomMixerDir	D:\I3\IC\Resources\DAI3\IC\TETP\Post;D:\I3\IC\Host

Microsoft Internet Information Server

Install CX Insights web application for Microsoft IIS

For a basic working installation, such as for a test environment, follow these three sections:

- [Step 1: Add Required IIS Services](#)
- [Step 2: Download and copy CIC web applications files](#)
- [Step 3: Configure IIS](#)

For a production environment, you can also follow the instructions in [Configure HTTPS for IIS](#).

Step 1: Add Required IIS Services

1. In Server Manager, verify that the Web Server Role (IIS 7) was added with the following (minimum required) role services installed:
 - o Common HTTP Features
 - Static Content
 - Default Document
 - o Performance
 - Static Content Compression
 - o Security
 - Request Filtering
 - o Management Tools
 - IIS Management Console
2. If you have not installed the **Application Request Routing** and **URL Rewrite extensions**, download them from the following locations and install them.
 - o [Application Request Routing extension](http://www.iis.net/downloads/microsoft/application-request-routing) (<http://www.iis.net/downloads/microsoft/application-request-routing>)
 - o [URL Rewrite extension](http://www.iis.net/downloads/microsoft/url-rewrite) (<http://www.iis.net/downloads/microsoft/url-rewrite>)
3. Enable the server as a proxy with response buffering enabled:
 - a. In **IIS Manager**, click your server.
 - b. Double-click the **Application Request Routing Cache** module.
 - c. In the **Actions** pane, click **Server Proxy Settings**.
 - d. Check **Enable proxy**.
 - e. Change the **Response buffer threshold (KB)** setting under **Buffer Setting** to 0.
 - f. Click **Apply**.
4. Verify that `index.html` and `index.htm` are present as **Default Documents**.

Step 2: Download and copy the CIC web applications files (for analytics only)

1. In Windows Explorer, create a folder in the home directory in IIS for the CIC Web Applications.
In a default IIS installation, the home directory is `C:\inetpub\wwwroot`. Verify that IIS has the appropriate permissions for that newly created folder.

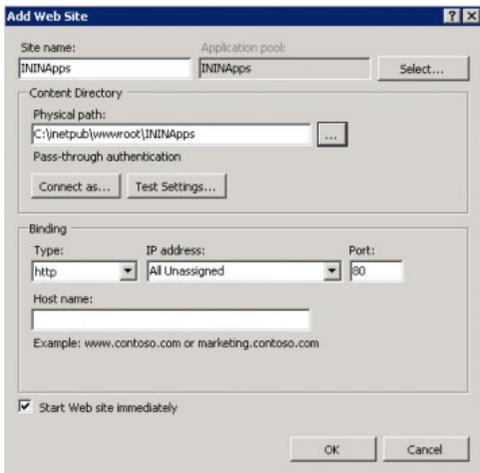
Note:
In this document, the directory is named `ININApps`.

2. Download the CIC Web Applications zip file from <https://my.inin.com/products/Pages/Downloads.aspx>.
All the web applications are contained in this single `.zip` archive. You must extract the `analytics` folder only.
3. Unzip the CIC Web Applications.
4. Navigate to the `web_files` folder inside the unzipped CIC Web Applications folder.
5. Copy the `analytics` folder in `web_files`.

6. Paste the folder you copied in the previous step into the directory you created in step 1. This places the appropriate directory structure and files for CIC Web Applications (**only analytics folder**) on your web server.

Step 3: Configure IIS

1. Create a new site named **ININApps** in IIS:
 - a. Right-click on **Sites** and choose **Add web site**.
 - b. In the dialog box, set the **Content Directory - Physical path** to the CIC Web Applications folder that you previously created in your server's home directory.



2. Remove the .NET Framework version of the application pool:
 - a. In the **IIS Manager** side pane, click **Application Pools**.
 - b. Right-click the newly created **ININApps** application pool.
 - c. Click **Basic Settings**.
 - d. Change the .NET Framework version to **No Managed Code**.
 - e. Click **OK**.
3. **Enable static content compression** on the new Site:
 - a. Click the site in **IIS Manager**.
 - b. Double-click the **Compression** module.
 - c. Check **Enable static content compression**.
 - d. Click **Apply**.
4. Update the **Maximum URL Length** and **Maximum Query String** size in **Request Filtering**, if enabled:
 - a. Click the site in the **IIS Manager**.
 - b. Double-click on the **Request Filtering** module, if enabled.
If the module does not appear, **Request Filtering** is not enabled.
 - c. Select the **URL** tab in the **Request Filtering** view.
 - d. Click on **Edit Feature Settings** in the **Actions** pane.
 - i. Update **Maximum URL Length (bytes)** to 8192.
 - ii. Update **Maximum Query String (bytes)** to 8192.
 - iii. Update **Maximum allowed content length (bytes)** to something greater than or equal to 20971520.
 - e. Click **OK**.
5. Add allowed server variables:
 - a. Click the site in the **IIS Manager**.
 - b. Double-click on the **URL Rewrite** module.
 - c. In the **Actions** pane, click **View Server Variables**.
 - d. Create the following three server variables by clicking **Add** in the **Actions** pane.
 - **WEB_APP**
 - **ICWS_HOST**
 - **HTTP_ININ-ICWS-Original-URL**

Note:
Steps 6 through 10 can alternatively be completed using XML configuration files.

6. Create the rewrite map.
 - a. Click the site in the **IIS Manager**.
 - b. Double-click the **URL Rewrite** module.
 - c. In the **Actions** pane on the right, click **View Rewrite Maps**.
 - d. Click **Add Rewrite Map**.
 - e. Enter **MapScheme** for the rewrite map name.
 - f. In the **Actions** pane, click **Add Mapping Entry**.
 - g. Enter the following:

Original value	New value
on	https

- h. Repeat steps 6 and 7 with the following information:

Original value	New value
off	http

7. Create URL rewrite rules. You will create two inbound rules and four outbound rules.
 - a. Click the site in the **IIS Manager**.
 - b. Double-click the **URL Rewrite** module.
 - c. Navigate to the **Actions** pane and select **Add Rule(s)**.
 - d. For each rule, select **Blank rule** under the appropriate type (**Inbound rule** or **Outbound rule**).
 - e. Enter the following information for each rule. Tables are provided for ease of copying values, followed by screenshots for each rule.

Note:
Do not add conditions for any of the rules.

Inbound rule1	
This rule allows the client to reach the Session Manager host that ICWS is served from.	
Name>	inin-api-rewrite
Requested URL	Matches the Pattern
Using	Regular Expressions
Pattern	(?:^(.*)analytics/api^api)/([^\s]+)/(.*)
Ignore case	Enabled
Server Variables	See Server Variables table below
Action type	Rewrite
Rewrite URL (see Configure HTTPS for IIS for HTTPS)	http://{ICWS_HOST}:8018{R:3}
Append query string	Enabled
Log rewritten URL	Enabled
Stop processing of subsequent rules	Enabled

Server Variables

Name	Value	Replace
WEB_APP	{R:1}	True
ICWS_HOST	{R:2}	True
HTTP_ININ-ICWS-Original-URL	{MapScheme:{HTTPS}}://{HTTP_HOST}{UNENCODED_URL}	False

The screenshot shows the IIS Manager interface for editing an inbound rule. The breadcrumb path is CHERRY > Sites > ININApps > analytics. The rule name is 'inin-api-rewrite'. The Match URL section shows 'Requested URL' set to 'Matches the Pattern' and 'Using' set to 'Regular Expressions'. The Pattern field contains '(?:^(.*)analytics/api^api)/([^\s]+)/(.*)' with a 'Test pattern...' button. The 'Ignore case' checkbox is checked. The Server Variables table is populated with three entries: WEB_APP (Value: {R:1}, Replace: True), ICWS_HOST (Value: {R:2}, Replace: True), and HTTP_ININ-ICWS-Original-URL (Value: {MapScheme:{HTTPS}}://{...}, Replace: False). The Action section shows 'Action type' set to 'Rewrite' and 'Action Properties' with 'Rewrite URL' set to 'http://{ICWS_HOST}:8018{R:3}'. The status bar at the bottom indicates the configuration is for 'ININApps/analytics' web.config.

Inbound rule2	
This rule allows the client to reach the Session Manager host that Microstrategy calls is served from.	
Name	analytics-route
Requested URL	Matches the Pattern
Using	Regular Expressions
Pattern	(?:^(*/)analytics-route ^analytics- route)/((^/)+)(/.*)
Ignore case	Enabled
Server Variables	See Server Variables table below
Action type	Rewrite
Rewrite URL (see Configure HTTPS for IIS for HTTPS)	http://{ICWS_HOST}:8018{R:3}
Append query string	Enabled
Log rewritten URL	Enabled
Stop processing of subsequent rules	Enabled

Server Variables

Name	Value	Replace
WEB_APP	{R:1}	True
ICWS_HOST	{R:2}	True
HTTP_ININ-ICWS-Original-URL	{MapScheme:(HTTPS)}://{HTTP_HOST}{UNENCODED_URL}	False

The screenshot shows the IIS Manager interface for editing an outbound rule. The left-hand pane displays the site hierarchy: CHERRY (DEV2000) > Sites > ININApps > analytics. The main pane is titled 'Edit Outbound Rule' and shows the following configuration:

- Name:** inin-location-paths
- Precondition:** <None>
- Match:**
 - Matching scope: Server Variable
 - Variable name: RESPONSE_Location
 - Variable value: Matches the Pattern
 - Using: Regular Expressions
 - Pattern: ^/icws/.*
 - Ignore case:
- Conditions:** (None listed)
- Action:**
 - Action type: Rewrite
 - Action Properties:
 - Value: /{WEB_APP}analytics/api/{ICWS_HOST}{R:0}
 - Replace existing server variable value:
 - Stop processing of subsequent rules:

The bottom status bar indicates the configuration file path: Configuration: 'ININApps/analytics' web.config

Outbound rule 1	
This rule allows the cookies required by ICWS and the client to be located where the client needs them.	
Name	inin-cookie-paths
Precondition	<None>
Matching scope	Server Variable
Variable name	RESPONSE_Set_Cookie
Variable value	Matches the Pattern
Using	Regular Expressions
Pattern	(.*)Path=/(icws.*)
Ignore case	Enabled
Action type	Rewrite
Value	{R:1}Path={WEB_APP}analytics/api/{ICWS_HOST}{R:2}
Replace existing server variable value	Enabled
Stop processing of subsequent rules	Disabled

The screenshot shows the IIS Manager interface for editing an outbound rule. The left-hand pane displays a tree view of the server configuration, with the path 'CHERRY > Sites > ININApps > analytics' selected. The main pane is titled 'Edit Outbound Rule' and contains the following configuration details:

- Name:** inin-cookie-paths
- Precondition:** <None>
- Match:**
 - Matching scope: Server Variable
 - Variable name: RESPONSE_Set_Cookie
 - Variable value: Matches the Pattern
 - Using: Regular Expressions
 - Pattern: (.*)Path=/(icws.*)
 - Ignore case
- Conditions:** (Empty)
- Action:**
 - Action type: Rewrite
 - Action Properties:
 - Value: {R:1}Path={WEB_APP}analytics/api/{ICWS_HOST}{R:2}
 - Replace existing server variable value
 - Stop processing of subsequent rules

The bottom status bar indicates the configuration path: 'Configuration: 'ININApps/analytics' web.config'. The right-hand pane shows 'Actions' with buttons for 'Apply', 'Cancel', 'Back to Rules', and 'Help'.

Outbound rule 2	
This rule adjusts the location header	
Name	inin-location-paths
Precondition	<None>
Matching scope	Server Variable
Variable name	RESPONSE_location
Variable value	Matches the Pattern
Using	Regular Expressions
Pattern	^/icws/.*
Ignore case	Enabled
Action type	Rewrite
Value	/{WEB_APP}analytics/api/{ICWS_HOST}{R:0}
Replace existing server value	Enabled
Stop processing of subsequent rules	Disabled

The screenshot shows the IIS Manager interface for editing an outbound rule. The left-hand pane displays a tree view of the server configuration, with the path 'CHERRY > Sites > ININApps > analytics' selected. The main pane is titled 'Edit Outbound Rule' and contains the following configuration details:

- Name:** inin-location-paths
- Precondition:** <None>
- Match:**
 - Matching scope: Server Variable
 - Variable name: RESPONSE_location
 - Variable value: Matches the Pattern
 - Using: Regular Expressions
 - Pattern: ^/icws/.*
 - Ignore case
- Conditions:** (None listed)
- Action:**
 - Action type: Rewrite
 - Action Properties:
 - Value: /{WEB_APP}analytics/api/{ICWS_HOST}{R:0}
 - Replace existing server variable value
 - Stop processing of subsequent rules

The bottom status bar indicates the configuration file path: 'Configuration: 'ININApps/analytics' web.config'. The right-hand pane shows 'Actions' with buttons for 'Apply', 'Cancel', 'Back to Rules', and 'Help'.

Outbound rule 3	
This rule allows the cookies required by MicroStrategyLibrary and the client to be located where the client needs them.	
Name	inin-analytics-cookie
Precondition	<None>
Matching scope	Server Variable
Variable name	RESPONSE_Set_Cookie
Variable value	Matches the Pattern
Using	Regular Expressions
Pattern	(.*)Path=(/MicroStrategyLibrary.*)
Ignore case	Enabled
Action type	Rewrite
Value	{R:1}Path={/WEB_APP}analytics- route/{ICWS_HOST}{R:2}
Replace existing server variable value	Enabled
Stop processing of subsequent rules	Disabled

Internet Information Services (IIS) Manager

CHERRY > Sites > ININApps > analytics

File View Help

Connections

- CHERRY (DEV2000\cherry_use)
- Application Pools
- Sites
 - Default Web Site
 - ININApps
 - analytics
 - analytics-repo
 - client
 - dataextractor
 - wfm
 - workitemclient
 - workitemviewer
- Server Farms

Edit Outbound Rule

Name: inin-analytics-cookie

Precondition: <None> Edit...

Match

Matching scope: Server Variable

Variable name: RESPONSE_Set_Cookie

Variable value: Matches the Pattern Using: Regular Expressions

Pattern: (.*)Path=(/MicroStrategyLibrary.*) Test pattern...

Ignore case

Conditions: ▼

Action

Action type: Rewrite

Action Properties

Value: {R:1}Path=/analytics/ analytics- route/{ICWS_HOST}{R:2}

Replace existing server variable value

Stop processing of subsequent rules

Actions

Apply

Cancel

Back to Rules

Help

Configuration: 'ININApps/analytics' web.config

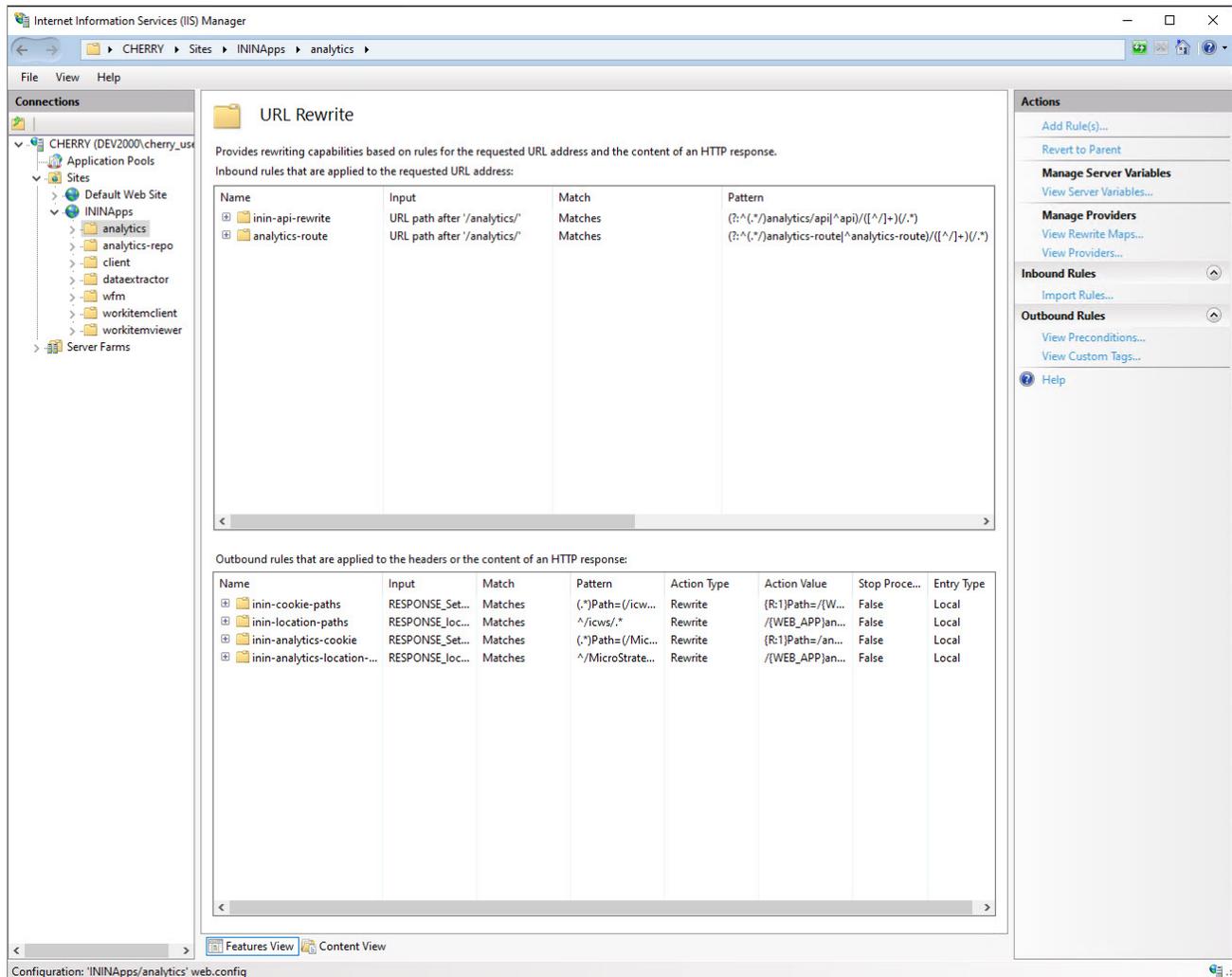
Outbound rule 4	
This rule adjusts the location header	
Name	inin-analytics-location-path
Precondition	<None>
Matching scope	Server Variable
Variable name	RESPONSE_location
Variable value	Matches the Pattern
Using	Regular Expressions
Pattern	^/MicroStrategyLibrary/.*
Ignore case	Enabled
Action type	Rewrite
Value	/{WEB_APP}analytics-route/{ICWS_HOST}{R:0}
Replace existing server value	Enabled
Stop processing of subsequent rules	Disabled

The screenshot shows the IIS Manager interface for editing an outbound rule. The left pane shows the site hierarchy: CHERRY > Sites > ININApps > analytics. The main pane is titled 'Edit Outbound Rule' and contains the following configuration:

- Name:** inin-analytics-location-path
- Precondition:** <None>
- Match:**
 - Matching scope: Server Variable
 - Variable name: RESPONSE_location
 - Variable value: Matches the Pattern
 - Using: Regular Expressions
 - Pattern: ^/MicroStrategyLibrary/.*
 - Ignore case
- Conditions:** (None listed)
- Action:**
 - Action type: Rewrite
 - Action Properties:
 - Value: /{WEB_APP}analytics-route/{ICWS_HOST}{R:0}
 - Replace existing server variable value
 - Stop processing of subsequent rules

The right pane shows 'Actions' with buttons for Apply, Cancel, Back to Rules, and Help. The status bar at the bottom indicates the configuration file is 'ININApps/analytics' web.config.

When you are finished, you will have two inbound rules and four outbound rules:



8. (Optional) Increase the cache sensitivity thresholds if you have application load performance issues.
 - a. In **Configuration Editor**, select the **system.webServer/serverRuntime** section.
 - b. Update **frequentHitThreshold** to 1.
 - c. Update **frequentHitTimePeriod** to 00:10:00.
9. Enable static content caching for Interaction Connect:
The following table summarizes the cache settings. Steps to configure cache settings follow.

Note:
Client/addins and client/config do not exist in a new installation. If you plan to use servers.json or create custom add-ins, use the cache settings below for those folders.

Configure HTTPS for Microsoft IIS

Enable HTTPS between the web browser and IIS

Follow these instructions to encrypt the connection between the web browser and the web server. You must add a certificate to the web server, then bind the certificate to the HTTPS port, and then enable SSL on the site.

Step 1: Add a Certificate to the web server

You can use either a *self-signed certificate* or a *third-party certificate*. See the appropriate procedure below.

If you choose a self-signed certificate, client workstations need to trust that certificate after it is installed on the web server. For this reason, self-signed certificates are usually used for testing only.

To use a third-party certificate, you need to first create a certificate signing request.

Create a self-signed certificate

1. On the web server, open **IIS Manager**.
2. In the **Connections** pane, select the CIC web applications server.
3. Double-click the **Server Certificates** module.
4. In the **Actions** pane, click **Create Self-Signed Certificate**.
5. In the **Create Self-Signed Certificate** window:
 - a. Enter a name for the certificate.
 - b. Select **Web Hosting** for the certificate store.
6. Click **OK**.

Use a third-party certificate - Generate Certificate Signing Request

1. On the web server, open **IIS Manager**.
2. In the **Connections** pane, select the CIC web applications server.
3. Double-click the **Server Certificates** module.
4. Click **Create Certificate Request** to create a Certificate Signing Request (CSR).
5. In the **Request Certificate** window, enter the information for your organization.

Tip:
For **Common** name, enter the Fully-Qualified Domain Name (FQDN) of the server, e.g.: `www.example.com`.

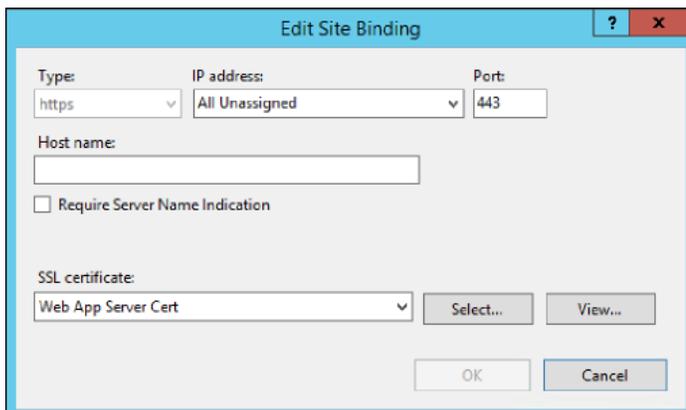
6. Click **Next**.
7. Choose the appropriate cryptographic service provider properties. Ask your third-party Certificate Authority (CA) which options to choose.
8. Click **Next**.
9. Enter a file name and location for the CSR.
10. Click **Finish**.
11. Send the generated CSR to your CA for signing.

Complete certificate request

1. Copy the signed certificate you received from the certificate authority to your web server.
2. In IIS Manager, open the **Server Certificates Module**.
3. Click **Complete Certificate Request**.
4. In the **Specify Certificate Authority Response** window:
 - Select the signed certificate you copied to your web server.
 - Enter a friendly name for the certificate.
 - Select **Web Hosting** for the certificate store.
 - Click **OK**.

Step 2: Bind the certificate to the HTTPS port

1. In the **Connections** pane, click the site for the CIC Web Applications named **ININApps** in this document.
2. In the **Actions** pane, click **Bindings**.
3. Click **Add**.



4. Change the Type to **https**.
5. In the **SSL certificate** list, select the certificate you previously created or imported.
6. Click **OK**.
7. Click **Close**.

Step 3: Enable SSL on the site

1. In the **Connections** pane, click the site for the CIC Web Applications named **ININApps** in this document.
2. Double-click the **SSL Settings** module.
3. Check **Require SSL**.
4. In the **Actions** pane, click **Apply**.

If you used a self-signed certificate, you or the users of client workstations must trust the certificate manually.

Enable HTTPS between IIS and CIC

Tip:
The best practice is to use HTTPS from CIC to IIS and from IIS to the web browser, or from IIS to the web browser only. Securing traffic from IIS to CIC only can cause issues with Secure cookies.

These directions encrypt the connection between the web server and the CIC server. You must change the inbound rules to use HTTPS, and then trust the CIC server HTTPS certificate.

Step 1: Change inbound rules to use HTTPS

1. On your web server, open IIS Manager.
2. Expand **Sites**.
3. Select your website, that is.: **ININApps**.
4. Double-click the **URL Rewrite** module.
5. Open both inbound rules **inin-api-rewrite** and **analytics-route**.
6. In the **Rewrite URL** field, change the **Rewrite URL** to use **HTTPS** for the two inbound rules:
 - Change the protocol to **https**
 - Change the port to **8019**.
7. In the **Actions** pane, click **Apply**.

Internet Information Services (IIS) Manager

CHERRY > Sites > ININApps > analytics

File View Help

Connections

- CHERRY (DEV2000)\cherry_user
- Application Pools
- Sites
 - Default Web Site
 - ININApps
 - analytics
 - help
 - lib
 - nls
 - analytics-repo
 - client
 - dataextractor
 - wfm
 - workitemclient
 - workitemviewer
- Server Farms

Edit Inbound Rule

Requested URL: Matches the Pattern Using: Regular Expressions

Pattern: [Test pattern...](#)

Ignore case

Conditions

Server Variables

Name	Value	Replace
WEB_APP	{R:1}	True
ICWS_HOST	{R:2}	True
HTTP_ININ-IC...	{MapScheme(HTTPS)}://{...	False

Buttons: Add..., Edit..., Remove, Move Up, Move Down

Action

Action type: Rewrite

Action Properties

Rewrite URL:

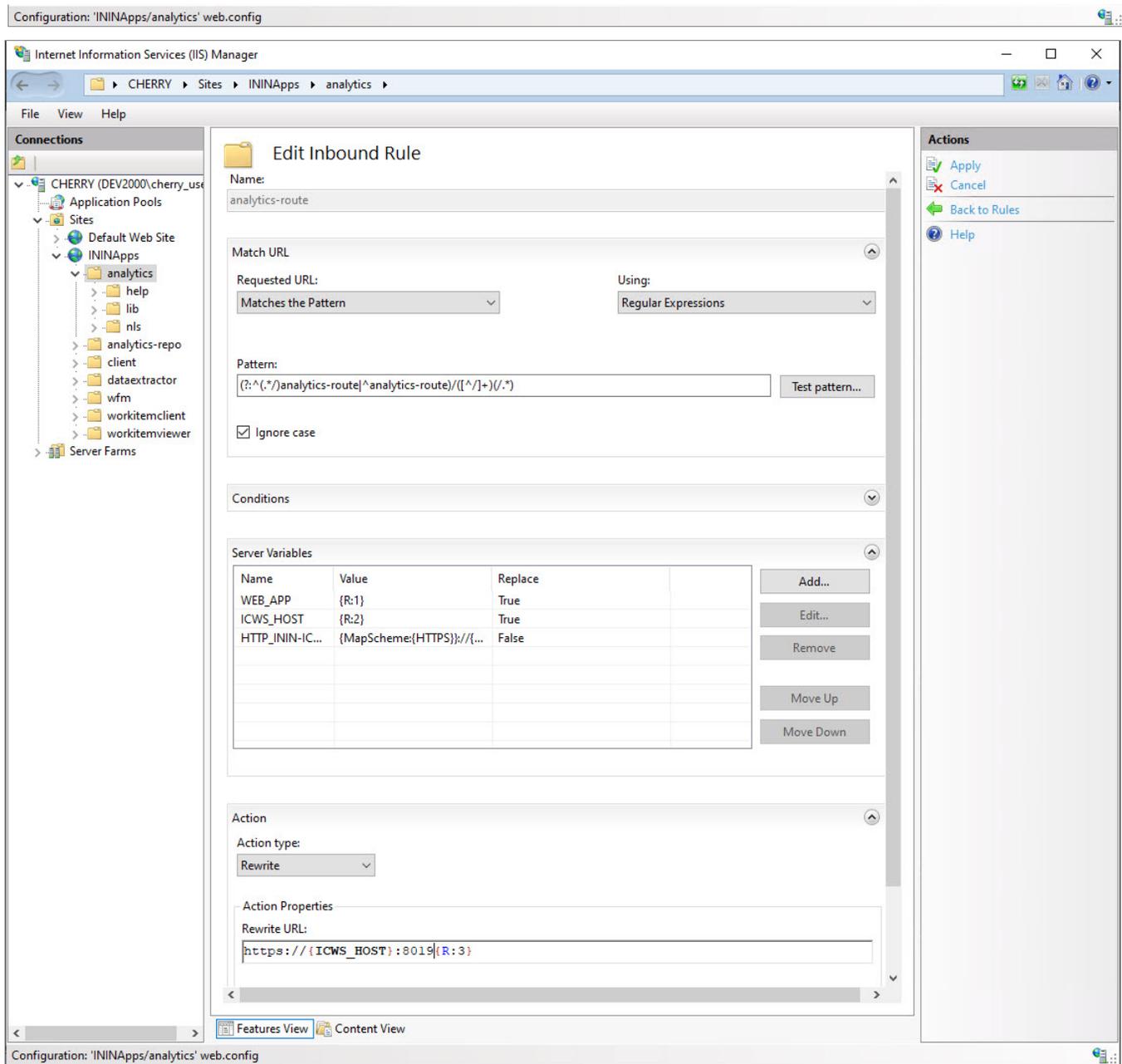
Append query string

Log rewritten URL

Stop processing of subsequent rules

Actions: Apply, Cancel, Back to Rules, Help

Features View Content View



Step 2: Trust the CIC server HTTPS Certificate

Note:

If the `Servername_Certificate.cer` file has a certificate chain, then you must trust all the certificates in the chain. Check to see if **Issued To** and **Issued By** are different names. If you do not trust all the certificates in the chain, Session Manager cannot validate the certificate cannot and the SSL handshake will fail. Repeat this task for each Session Manager device in your environment, including both CIC Servers and any Off-Server Session Managers (OSSM).

1. Locate the HTTPS certificate on your CIC server.
The default location is as follows:
`\\I3\IC\Certificates\HTTPS`
2. Copy `Servername_Certificate.cer` to your web server.
3. On your web server, locate the copied HTTPS certificate.
4. Double-click the certificate.
5. Click **Install Certificate**.
6. Select **Local machine**.
7. Click **Next**.
8. Select **Place all certificates in the following store**.
9. To choose the certificate store, click **Browse** and select **Trusted Root Certification Authorities**.
10. Click **OK**.
11. Click **Next**.
12. Click **Finish**.

Apache HTTP server

Install CX Insights web application for Apache (Only for Analytics)

1. Create a folder in the document root of your web server for CIC Web Applications.
Verify that your web server software has the appropriate permissions for the newly created folder.

Note:

In this document, the folder name is `ININApps`.

2. Download the CIC web applications zip archive file from <https://my.inin.com/products/Pages/Downloads.aspx>.
All the web applications are contained in this single zip archive. You will use only the `Analytics` folder from the zip archive.
3. Unzip the `CIC Web Applications` folder.
4. Navigate to the `web_files` folder inside the unzipped `CIC Web Applications` folder.
5. Copy only the `Analytics` folder inside of `web_files`.
6. Paste the copied `Analytics` folder into the directory you created in step 1. Doing so places the appropriate directory structure and files for the `Analytics` folder on your web server.

Configure HTTP for Apache

1. Download the Apache installer zip archive file (ex: `httpd-2.4.39-win64-VC15.zip`) from the Internet and extract it on `C:` drive.
It creates a folder similar to `C:\Apache24`.
2. The following actions take place in the Apache server's `/conf/httpd.conf` file. Set the following minimally required modules to be loaded:

One or more `auth*` modules that are appropriate for your web server

```
o actions_module modules/mod_actions.so
o alias_module modules/mod_alias.so
o allowmethods_module modules/mod_allowmethods.so
o asis_module modules/mod_asis.so
o auth_basic_module modules/mod_auth_basic.so
o authn_core_module modules/mod_authn_core.so
o authn_file_module modules/mod_authn_file.so
o authz_core_module modules/mod_authz_core.so
o authz_groupfile_module modules/mod_authz_groupfile.so
o authz_host_module modules/mod_authz_host.so
o authz_user_module modules/mod_authz_user.so
o autoindex_module modules/mod_autoindex.so
o cgi_module modules/mod_cgi.so
o dir_module modules/mod_dir.so
o env_module modules/mod_env.so
o expires_module modules/mod_expires.so
o headers_module modules/mod_headers.so
o mime_module modules/mod_mime.so
o negotiation_module modules/mod_negotiation.so
o proxy_module modules/mod_proxy.so
o proxy_http_module modules/mod_proxy_http.so
o rewrite_module modules/mod_rewrite.so
o setenvif_module modules/mod_setenvif.so
```

3. Change the `DocumentRoot` as well as the single `<Directory>` section to point to the `CIC Web Applications` folder.

For example, set—as in this case—the `CIC Web Applications` folder is extracted in `C:\www`:

```
DocumentRoot "C:/www/"
<Directory "C:/www">
```

4. Change the `DirectoryIndex` property to contain `index.html` and `index.htm`.
5. If `LimitRequestBody` is set to something other than 0, ensure that you increase it to a value greater than or equal to 20971520 (bytes).
6. Provide the port number on which the web application will listen.

Example:

```
Listen 8000
ServerName localhost:1700
```

7. Set up the proxy rewrite rules as follows. Replace `serverName` with the physical name of the server.

```
ServerName {servername}
RewriteEngine On
RewriteRule "^(.*)analytics/api/([^\s]+)([\s\S]*) "http://$2:8018$3" [P,E=WEB_APP:$1,E=ICWS_HOST:$2,E=ICWS_PATH:$3,E=HTTP_HOST:%
{HTTP_HOST},E=REQUEST_URI:%{REQUEST_URI},E=SCHEME:%{REQUEST_SCHEME}]
Header edit Set-Cookie "(.*)Path=(/icws.*) " "$1Path=%{WEB_APP}eanalytics/api/%{ICWS_HOST}e$2"
Header edit Location "^(/icws.*) " "%{WEB_APP}eanalytics/api/%{ICWS_HOST}e$1"
SetEnvIf "ININ-ICWS-Original-URL" ".+" HAVE_ININICWSOriginalURL
RequestHeader set "ININ-ICWS-Original-URL" "%{SCHEME}e://%{HTTP_HOST}e%{REQUEST_URI}e" env=!HAVE_ININICWSOriginalURL
RewriteRule "^(.*)/analytics-route/([^\s]+)([\s\S]*) "http://$2:8018$3" [P,E=WEB_APP:$1,E=ICWS_HOST:$2,E=ICWS_PATH:$3,E=HTTP_HOST:%
{HTTP_HOST},E=REQUEST_URI:%{REQUEST_URI},E=SCHEME:%{REQUEST_SCHEME}]
Header edit Set-Cookie "(.*)Path=(/MicroStrategyLibrary.*) " "$1Path=%{WEB_APP}e/analytics-route/%{ICWS_HOST}e$2"
Header edit Location "^(/MicroStrategyLibrary.*) " "%{WEB_APP}e/analytics-route/%{ICWS_HOST}e$1"
SetEnvIf "ININ-ICWS-Original-URL" ".+" HAVE_ININICWSOriginalURL
RequestHeader set "ININ-ICWS-Original-URL" "%{SCHEME}e://%{HTTP_HOST}e%{REQUEST_URI}e" env=!HAVE_ININICWSOriginalURL
```

8. Restart the Apache process.
9. Verify that all applications work as expected.

Configure HTTPS for Apache

Part 1: To configure HTTPS, you need an SSL certificate, which you can generate using OpenSSL.

1. Download the OpenSSL Windows installer (win64openssl-1_1_0k.exe) from <https://slproweb.com/products/Win32OpenSSL.html>. You can use a more recent version, if available.
2. Create a directory where the SSL certificate will be generated (example: C:\certs).
3. Open a **Command Prompt** window in Administrator mode and navigate to the directory where the SSL certificate will be generated.
4. Set these configuration variables
 - o set RANDFILE=C:\<directory name>\.rnd
Example: C:\certs\.rnd
 - o set OPENSSL_CONF=C:\OpenSSL-Win32\bin\openssl.cfg
(# as per installation)
5. In the **Command Prompt** window, enter the following command:
"C:\OpenSSL-Win32\bin\openssl.exe" req -out CSR.csr -new -newkey rsa:2048 -nodes -keyout PrivateKey.key
6. In the **Command Prompt** window, enter the following command:
"C:\OpenSSL-Win32\bin\openssl.exe" x509 -req -days 365 -in CSR.csr -signkey Private.Key -out server.crt
7. Verify that the directory contains the following files:
 - o CSR.csr
 - o PrivateKey.key
 - o server.crt

Part 2: The rest of the configuration is similar to the **HTTPS configuration**. Just modify the following steps of the **HTTPS configuration**:

- At step 2 in the **HTTPS configuration**, add module `ssl_module` `modules/mod_ssl.so` for SSL.
- Add the generated SSL certificate details in server via Apache server's `/conf/httpd.conf` file.

```
<VirtualHost *: {port}>
  ServerName {servername}
  SSLEngine on
  SSLCertificate "C:/certs/server.crt"
  SSLCertificateKeyFile "C:/certs/Private.key"
  SSLProxyEngine on
  RewriteRule "^(.*)analytics/api/([^\s]+)([\s\S]*)" "http://$2:8018$3" [P,E=WEB_APP:$1,E=ICWS_HOST:$2,E=ICWS_PATH:$3,E=HTTP_HOST:%
{HTTP_HOST},E=REQUEST_URI:%{REQUEST_URI},E=SCHEME:%{REQUEST_SCHEME}]
  Header edit Set-Cookie "(.*)Path=(/icws.*)" "$1Path=%{WEB_APP}analytics/api/%{ICWS_HOST}e$2"
  Header edit Location "^(/icws.*)" "%{WEB_APP}analytics/api/%{ICWS_HOST}e$1"
  SetEnvIf "ININ-ICWS-Original-URL" ".+" HAVE_ININICWSOriginalURL
  RequestHeader set "ININ-ICWS-Original-URL" "%{SCHEME}e://%{HTTP_HOST}e%{REQUEST_URI}e" env=!HAVE_ININICWSOriginalURL
  RewriteRule "^(.*)analytics-route/([^\s]+)([\s\S]*)" "http://$2:8018$3" [P,E=WEB_APP:$1,E=ICWS_HOST:$2,E=ICWS_PATH:$3,E=HTTP_HOST:%
{HTTP_HOST},E=REQUEST_URI:%{REQUEST_URI},E=SCHEME:%{REQUEST_SCHEME}]
  Header edit Set-Cookie "(.*)Path=(/MicroStrategyLibrary.*)" "$1Path=%{WEB_APP}/analytics-route/%{ICWS_HOST}e$2"
  Header edit Location "^(/MicroStrategyLibrary.*)" "%{WEB_APP}/analytics-route/%{ICWS_HOST}e$1"
  SetEnvIf "ININ-ICWS-Original-URL" ".+" HAVE_ININICWSOriginalURL
  RequestHeader set "ININ-ICWS-Original-URL" "%{SCHEME}e://%{HTTP_HOST}e%{REQUEST_URI}e" env=!HAVE_ININICWSOriginalURL
</VirtualHost>
```

- In the above rule, locate `SSLCertificateFile` and `SSLCertificateKeyFile` and edit them to use your certificate name and location.
- Set up the proxy rewrite rules as follows. Replace `serverName` with physical name of server.

```
ServerName {servername}
RewriteEngine On
RewriteRule "^(.*)analytics/api/([^\s]+)([\s\S]*)" "https://$2:8019$3" [P,E=WEB_APP:$1,E=ICWS_HOST:$2,E=ICWS_PATH:$3,E=HTTP_HOST:%
{HTTP_HOST},E=REQUEST_URI:%{REQUEST_URI},E=SCHEME:%{REQUEST_SCHEME}]
Header edit Set-Cookie "(.*)Path=(/icws.*)" "$1Path=%{WEB_APP}analytics/api/%{ICWS_HOST}e$2"
Header edit Location "^(/icws.*)" "%{WEB_APP}analytics/api/%{ICWS_HOST}e$1"
SetEnvIf "ININ-ICWS-Original-URL" ".+" HAVE_ININICWSOriginalURL
RequestHeader set "ININ-ICWS-Original-URL" "%{SCHEME}e://%{HTTP_HOST}e%{REQUEST_URI}e" env=!HAVE_ININICWSOriginalURL
RewriteRule "^(.*)analytics-route/([^\s]+)([\s\S]*)" "https://$2:8019$3" [P,E=WEB_APP:$1,E=ICWS_HOST:$2,E=ICWS_PATH:$3,E=HTTP_HOST:%
{HTTP_HOST},E=REQUEST_URI:%{REQUEST_URI},E=SCHEME:%{REQUEST_SCHEME}]
Header edit Set-Cookie "(.*)Path=(/MicroStrategyLibrary.*)" "$1Path=%{WEB_APP}/analytics-route/%{ICWS_HOST}e$2"
Header edit Location "^(/MicroStrategyLibrary.*)" "%{WEB_APP}/analytics-route/%{ICWS_HOST}e$1"
SetEnvIf "ININ-ICWS-Original-URL" ".+" HAVE_ININICWSOriginalURL
RequestHeader set "ININ-ICWS-Original-URL" "%{SCHEME}e://%{HTTP_HOST}e%{REQUEST_URI}e" env=!HAVE_ININICWSOriginalURL
```

- Restart the Apache process.
- Verify that all applications work as expected.

Ngix Server

Install CX Insights web application for Nginx

1. Create a folder in the document root of your web server for the CIC Web Applications.
Verify that your web server software has the appropriate permissions for that newly created folder.
Note: In this document, the folder is named `ININApps`.
2. Download the CIC web applications zip archive file from <https://help.genesys.com/pureconnect/secure/downloads.aspx>
All the web applications are contained in this single zip. You will use only the `Analytics` folder from the zip.
3. Unzip the `CIC Web Applications` folder.
4. Navigate to the `web_files` folder inside the unzipped `CIC Web Applications` folder.
5. Copy the `Analytics` folder in `web_files`.
6. Paste the `Analytics` folder copied in the previous step into the folder you created in step 1. This places the appropriate directory structure and files for `Analytics` folder on your web server.

Configure HTTP for Nginx

1. Enter the `nginx.conf` information and then change the following:

```
location ~ /client/ {
  location ~ /client/help/ {
    expires off;
  }
  location ~ /client/(?::addins|config)/ {
    add_header Cache-Control "no-cache";
  }
  location ~ index.html?$ {
    expires 15m;
  }
  location ~ \.(?:js|css|jpe?g|ico|png|gif|svg|ttf|woff|otf|eot|mp3|wav|ogg)$
  //eic/2019r2_systest/products/documentation/source/Technical_Reference_HTML/cic_web_applications_icg/Install_CIC_Web_Applications_on_Nginx.htm#2
```

```

{
expires 1y;
}
}

```

- In the Resolver field, use the DNS server instead of dl-hq-dc01.ininlab.com
- In the upstream object for Server field, use the IC server name instead of adonis.dev2000.com.
- Change the port 8070 to the custom port under server object.
- In the server object, for `server_name` use the proxy server name instead of eros.dev2000.com
- Set the root entry for the server to the CIC Web Applications folder under location object.
- Enter the content for cache rules within the server object, given in `nginx_cache.conf`.

```

#user nobody;
worker_processes 2;
#error_log logs/error.log;
#error_log logs/error.log notice;
#error_log logs/error.log info;
#pid logs/nginx.pid;
events {
    worker_connections 1024;
}
http {
    resolver dl-hq1-dc01.ininlab.com valid=90000000s;
    include mime.types;
    default_type application/octet-stream;
    default_type application/json;
    #log_format main '$remote_addr - $remote_user [$time_local] "$request" '
    # '$status $body_bytes_sent "$http_referer" '
    # '"$http_user_agent" "$http_x_forwarded_for"';
    #access_log logs/access.log main;
    sendfile on;
    #tcp_nopush on;
    keepalive_timeout 60;

    gzip on;
    gzip_types text/plain
#eic/2019r2_systest/products/documentation/source/Technical_Reference_HTML/cic_web_applications_icg/Install_CIC_Web_Applications_on_Nginx.htm#2
text/css application/javascript application/json image/svg+xml;
index index.html index.htm;
#eic/2019r2_systest/products/documentation/source/Technical_Reference_HTML/cic_web_applications_icg/Install_CIC_Web_Applications_on_Nginx.htm#2
client_max_body_size 0;
autoindex on;

upstream up {
server adonis.dev2000.com:8018;
keepalive 100;
}
server {
    listen 8070;
listen [::]:8070;
server_name eros.dev2000.com;
server_name 127.0.0.1;
    #charset koi8-r;
    #access_log logs/host.access.log main;
    location / {
root ../www;
        index index.html index.htm;
    }
    #error_page 404 /404.html;
    # redirect server error pages to the static page /50x.html
    #
    #error_page 500 502 503 504 /50x.html;
    #location = /50x.html {
    #    root html;
    #}
    # proxy the PHP scripts to Apache listening on 127.0.0.1:80
    #
    #location ~ /\.php$ {
    #    proxy_pass http://127.0.0.1;
    #}
    # pass the PHP scripts to FastCGI server listening on 127.0.0.1:9000
    #
    #location ~ /\.php$ {
    #    root html;
    #    fastcgi_pass 127.0.0.1:9000;
    #    fastcgi_index index.php;
    #    fastcgi_param SCRIPT_FILENAME /scripts$fastcgi_script_name;
    #    include fastcgi_params;
    #}
    # deny access to .htaccess files, if Apache's document root
    # concurs with nginx's one
    #
    #location ~ /\.ht {
    #    deny all;
    #}
    set $ininIcwsOriginalUrl $http_inin_icws_original_url;
    if ($ininIcwsOriginalUrl !~ .+) {
    set $ininIcwsOriginalUrl $scheme://$http_host$request_uri;
    }
    location ~* (?:(.+)analytics/api|^(api)/([^\s/]+)(/.+)$ {
    set $web_app $1;
    set $server $2;
    set $icws_path $3;

    proxy_read_timeout 600;
    proxy_cookie_path /icws/ ${web_app}analytics/api/$server/icws/;
    proxy_redirect /icws/ ${web_app}analytics/api/$server/icws/;

    proxy_pass http://up$icws_path$is_args$args;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_set_header ININ-ICWS-Original-URL $ininIcwsOriginalUrl;
    proxy_http_version 1.1;
    proxy_set_header Connection "";
    proxy_set_header Host $host;
    add_header P3P "CP='CAO PSA OUR'";
    }
    if ($ininIcwsOriginalUrl !~ .+) {
    set $ininIcwsOriginalUrl $scheme://$http_host$request_uri;

```

```

}
location ~* (?^(.+)/analytics-route|^/analytics-route)/([^\s/]+)(/.)$ {
set $web_app $1;
set $server $2;
set $icws_path $3;

proxy_read_timeout          600;
proxy_cookie_path           /MicroStrategyLibrary/ $web_app/analytics-route/$server/MicroStrategyLibrary/;
proxy_redirect ^(/MicroStrategyLibrary.*) $web_app/analytics-route/$server/$1;

proxy_pass http://up$icws_path$is_args$args;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
proxy_set_header ININ-ICWS-Original-URL $ininIcwsOriginalUrl;
proxy_http_version 1.1;
proxy_set_header Connection "";
proxy_set_header Host $host;
add_header P3P "CP='CAO PSA OUR'";
add_header P3P "CP='CAO PSA OUR'";
}

}
# another virtual host using mix of IP-, name-, and port-based configuration
#
#server {
#   listen      8000;
#   listen      somename:8080;
#   server_name somename alias another.alias;
#   location / {
#       root    html;
#       index   index.html index.htm;
#   }
#}
# HTTPS server
#
#server {
#   listen      443 ssl;
#   server_name localhost;
#   ssl_certificate      cert.pem;
#   ssl_certificate_key  cert.key;
#   ssl_session_cache    shared:SSL:1m;
#   ssl_session_timeout  5m;
#   ssl_ciphers           HIGH:!aNULL:!MD5;
#   ssl_prefer_server_ciphers on;
#   location / {
#       root    html;
#       index   index.html index.htm;
#   }
#}
}

```

- g. Restart the Nginx process.
- h. Verify that all applications work as expected.

Configure HTTPS for Nginx

1. To configure HTTPS for Nginx, you need to use OpenSSL to generate an SSL certificate.
 - a. Download the OpenSSL Windows installer (Win64OpenSSL-1_1_0k.exe) from this link <https://slproweb.com/products/Win32OpenSSL.html>. You can use a later version if available.
 - b. Create a directory (for example: C:\certs), where the SSL certificate will be generated.
 - c. Open the command prompt in administrative mode and navigate to the directory where the SSL certificate will be generated.
 - d. Set these configuration variables:

```
Set RANDFILE=C:\<directory name> \.rnd (for example: C:\certs\rnd). Modify your location accordingly.
Set OPENSSL_CONF=C:\OpenSSL-Win32\bin\openssl.cfg (# as per installation)
```
 - e. Enter "C:\OpenSSL-Win32\bin\openssl.exe" req -out CSR.csr -new -newkey rsa:2048 -nodes -keyout PrivateKey.key at the command prompt.
 - f. Enter "C:\OpenSSL-Win32\bin\openssl.exe" x509 -req -days 365 -in CSR.csr -signkey PrivateKey.key -out server.crt at the command prompt.
 - g. The directory should contain CSR.csr, PrivateKey.key and server.crt.
2. The following configuration is similar to HTTPS configuration. Change the following to configure:

```

#user nobody;
worker_processes 2;
#error_log logs/error.log;
#error_log logs/error.log notice;
#error_log logs/error.log info;
#pid logs/nginx.pid;
events {
    worker_connections 1024;
}
http {
    resolver dl-hq1-dc01.ininlab.com valid=90000000s;
    include mime.types;
    default_type application/octet-stream;
#default_type application/json;
#log_format main '$remote_addr - $remote_user [$time_local] "$request" '
# '$status $body_bytes_sent "$http_referer" '
# '$http_user_agent' "$http_x_forwarded_for";
#access_log logs/access.log main;
sendfile on;
#tcp_nopush on;
keepalive_timeout 60;
gzip on;
gzip_types text/plain
#eic/2019r2_systest/products/documentation/source/Technical_Reference_HTML/cic_web_applications_icg/Install_CIC_Web_Applications_on_Nginx.htm#2
text/css application/javascript application/json image/svg+xml;
index index.html index.htm;
#eic/2019r2_systest/products/documentation/source/Technical_Reference_HTML/cic_web_applications_icg/Install_CIC_Web_Applications_on_Nginx.htm#2
client_max_body_size 0;
autoindex on;
upstream up {
    server adonis.dev2000.com:8018;
    keepalive 100;
}
server {
    listen 8070;
listen [::]:8070;
#server_name localhost;
server_name eros.dev2000.com;
server_name 127.0.0.1;

```

```

#charset koi8-r;
#access_log logs/host.access.log main;
location / {
    #root html;
#root "C:/www/analytics";
root ../www;
    index index.html index.htm;
}
#error_page 404          /404.html;
# redirect server error pages to the static page /50x.html
#
#error_page 500 502 503 504 /50x.html;
#location = /50x.html {
#    root html;
#}
# proxy the PHP scripts to Apache listening on 127.0.0.1:80
#
#location ~ \.php$ {
#    proxy_pass http://127.0.0.1;
#}
# pass the PHP scripts to FastCGI server listening on 127.0.0.1:9000
#
#location ~ \.php$ {
#    root          html;
#    fastcgi_pass  127.0.0.1:9000;
#    fastcgi_index index.php;
#    fastcgi_param SCRIPT_FILENAME /scripts$fastcgi_script_name;
#    include       fastcgi_params;
#}
# deny access to .htaccess files, if Apache's document root
# concurs with nginx's one
#
#location ~ /\.ht {
#    deny all;
#}

set $ininIcwsOriginalUrl $http_inin_icws_original_url;
if ($ininIcwsOriginalUrl !~ .+) {
set $ininIcwsOriginalUrl $scheme://$http_host$request_uri;
}
location ~* (?^(.+)\.analytics/api|^/api/)([^\./]+)(/.)$ {
set $web_app $1;
set $server $2;
set $icws_path $3;
proxy_read_timeout          600;
proxy_cookie_path /icws/ ${web_app}analytics/api/$server/icws/;
proxy_redirect /icws/ ${web_app}analytics/api/$server/icws/;
proxy_pass http://up$icws_path$is_args$args;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
proxy_set_header ININ-ICWS-Original-URL $ininIcwsOriginalUrl;
proxy_http_version 1.1;
proxy_set_header Connection "";
proxy_set_header Host $host;
add_header P3P "CP='CAO PSA OUR'";
}
#set $ininIcwsOriginalUrl $http_inin_icws_original_url;
if ($ininIcwsOriginalUrl !~ .+) {
set $ininIcwsOriginalUrl $scheme://$http_host$request_uri;
}
location ~* (?^(.+)/analytics-route|^/analytics-route)([^\./]+)(/.)$ {
set $web_app $1;
set $server $2;
set $icws_path $3;
proxy_read_timeout          600;
proxy_cookie_path /MicroStrategyLibrary/ $web_app/analytics-route/$server/MicroStrategyLibrary/;
proxy_redirect /MicroStrategyLibrary/ ${web_app}analytics-route/$server/MicroStrategyLibrary/;
proxy_pass http://up$icws_path$is_args$args;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
proxy_set_header ININ-ICWS-Original-URL $ininIcwsOriginalUrl;
proxy_http_version 1.1;
proxy_set_header Connection "";
proxy_set_header Host $host;
add_header P3P "CP='CAO PSA OUR'";
add_header P3P "CP='CAO PSA OUR'";
}
}
# another virtual host using mix of IP-, name-, and port-based configuration
#
#server {
#    listen      8000;
#    listen      somename:8080;
#    server_name somename alias another.alias;
#    location / {
#        root    html;
#        index  index.html index.htm;
#    }
#}
# HTTPS server
#
#server {
#    listen      443 ssl;
#    server_name localhost;
#    ssl_certificate      cert.pem;
#    ssl_certificate_key  cert.key;
#    ssl_session_cache    shared:SSL:1m;
#    ssl_session_timeout  5m;
#    ssl_ciphers  HIGH:!aNULL:!MD5;
#    ssl_prefer_server_ciphers  on;
#    location / {
#        root    html;
#        index  index.html index.htm;
#    }
#}
}

```

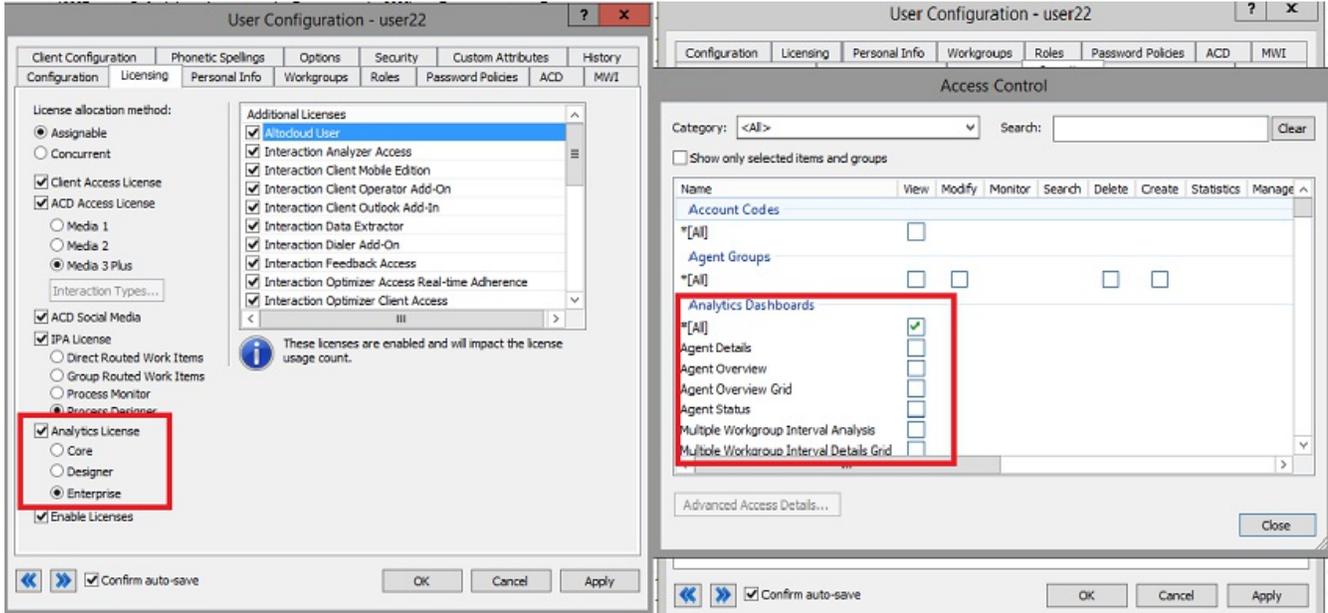
- In the 'resolver' field, use the DNS server instead of instead of dl-hq1-dc01.ininlab.com.
- Change port 8071 to custom port and provide 'SSL' binding beside the port number under server object.
- In server object for 'server_name' field, use the proxy server name instead of eros.dev2000.com.
- Enter the ssl_certificate & ssl_certificate_key under server object (Ex: "C:\certs\server.crt" & "C:\certs\PrivateKey.key" respectively)
- Set the root entry for the server to the CIC Web Applications folder under location object.

- f. Under location object, for proxy_pass instead of http use https and replace 8018 with 8019.
- g. Under location object, add proxy_buffering off;
- h. Restart the Nginx process.
- i. Verify that all applications work as expected.
- j. Enter the content for cache rules within the server object, given in nginx_cache.conf.

```
location ~ /client/ {
location ~ /client/help/ {
expires off;
}
location ~ /client/(?addins|config)/ {
add_header Cache-Control "no-cache";
}
location ~ index.html?$ {
expires 15m;
}
location ~ /\.(?:js|css|jpe?g|ico|png|gif|svg|ttf|woff|otf|eot|mp3|wav|ogg)$
//eic/2019r2_systemest/products/documentation/source/Technical_Reference_HTML/cic_web_applications_icg/Install_CIC_Web_Applications_on_Nginx.htm#2
{
expires 1y;
}
}
```

View CX Insights dashboards

You can log in to the CX Insights web application with the same PureConnect web application credentials only if you have one of the licenses defined for the analytics feature.



You can select the dashboard from the drop-down selection list as shown in the following image. The list shows the dashboards for which you have access permissions defined on the CIC server. After successful loading, the dashboard refreshes every 30 seconds with real-time statistic values.



Agent Details



Agent Details

This dashboard will contain all the visualizations related to selected agent details.

Agent Overview

This dashboard will contain all the visualizations related to selected agents overview.

Agent Overview Grid

This dashboard will contain all the visualizations related to selected agents overview.

Select Workgroup

- CompanyOperator
- workgroup1
- workgroup2
- workgroup3
- workgroup4
- workgroup5

Select Agent

-
- user_1
 - user_10
 - user_2
 - user_3
 - user_4
 - user_5
 - user_6
 - user_7
 - user_8

Select Intervals

- (All)
- CurrentPeriod
- CurrentShift
- PreviousPeriod
- PreviousShift



Answered	333
On Hold	0
Completed	333

Score Details			
Average Agent Positive ...	Average Agent Negative ...	Average Customer Negative ...	Average Customer Positive ...

Agent Statistics										
Agent	Interval	Entered	Answered	Completed	On Hold	Non ACD	Average Agent Negative Score	Average Agent Positive Score	Average Customer Negative Score	Average Customer Positive Score
user2	CurrentPeriod	0	0	0	0	0	0.00	0.00	0.00	
	CurrentShift	342	333	333	0	0	0.00	0.00	0.00	
	PreviousPeriod	0	0	0	0	0	0.00	0.00	0.00	
	PreviousShift	0	0	0	0	0	0.00	0.00	0.00	

Troubleshooting CX Insights for Installation and Configuration Issues

Troubleshooting CX Insights installation and configuration issues requires administrator status (root permissions) and privileges, as well as access to the servers hosting CX Insights.

Error	Description	Solution
\$'\r': command not found	While running the shell script, this error may occur because Windows uses '\r\n' as a new line character and Linux uses '\n'	To resolve this error, remove '\r' using the tr command. For example: <code>tr -d '\r' < ansible_install.sh > a.sh; mv a.sh ansible_install.sh ;</code>
Host FQDN error For example: "Error: release pcc-helmcharts failed: Ingress.extensions \"pcc-helmcharts/mstrdataadapterserver\" is invalid: sec.rules[0].host: Invalid value: \"172.26.20.55\": must be a DNS name, not an IP address"	This error may occur when configuring and deploying CX Insights	To resolve this error, you must check for the host DNS. If the mentioned host is an IP address then change the host IP to host FQDN. For example: Instead of 123.45.67.890 IP address use pxx-kxx-cx.domainxxx.com (server.domain.com).
K3s server start error For example: FAILED! => {"changed": false, "msg": "Unable to restart service K3s: Failed to restart k3s.service: Connection timed out\nsee system logs and 'systemctl status k3s.service' for details.\n"}	This error may occur when configuring and deploying CX Insights	To resolve this error, re-run the <code>sudo ansible-playbook --vault-id cxinsights@prompt -i inventory.yml ./site.yml -K</code> command.
Wrong pcon-mstr folder path error For example: FAILED! => {"changed": false, "cmd": ["helm", "install", "pcon-mstr", "--name", "pcc-hemcharts", "--namespace", "pcn-cxinsights-system", "--tiller-namespace", "pcn-tiller-system", "-f", "~/.values.yml"], "delta": "0:0:00.166113", "end": "2020-02-21 06:47:47.533577", "failed_when_result": true, "msg": "non-zero return code", "rc": 1, "start": "2020-02-21 06:47:47.367464", "stderr": "Error: failed to download \"pcon-mstr\" (hint: running 'helm repo update' may help)", "stderr_lines": ["Error: failed to download \"pcon-mstr\" (hint: running 'helm repo update' may help)"], "stdout": "", "stdout_lines": []}	This error may occur when configuring and deploying CX Insights	To resolve this error, check for the pcon-mstr folder path. It should be in <code>cxinsights-playbook-k3s/group_vars/all.yml</code> <code>upstream_chart</code> value path.
Pods evicted state error	This error may occur when configuring and deploying CX Insights	Sometimes many pods are in an evicted state. To remove all the evicted pods, use these commands. Prerequisites: <code>yum install jq</code> <code>kubectl get pods -A --all-namespaces -o json jq '.items[] select(.status.reason!=null) select(.status.reason contains("Evicted")) "kubectl delete pod \(.metadata.name) -n \(.metadata.namespace)"' xargs -n 1 bash -c</code>

Change Log

The following table lists the changes to this document since its initial release.

Date	Change
28-June-2019	Initial release
21-November-2019	Updated architecture diagram
02-December-2019	Added Configure HTTPS For Nginx topic
04-December-2019	Updated Analytics Configuration description
06-April-2020	Added Kubernetes Deployment Information
29-April-2020	Added Troubleshooting Information
04-May-2020	Updated Server Install and Upgrade Containers topics
11-June-2020	Updated Server Install and help.genesys.com links