

Configuring Intellicus on Microsoft Azure - Linux

Version: 16.3

intellicus

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Acknowledgements

Intellicus acknowledges using of third-party libraries to extend support to the functionalities that they provide.

For details, visit: <https://www.intellicus.com/product/documents/acknowledgements/acknowledgements-16-x/>

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1 Introduction

There is a global need for an intuitive web-based interactive interface to visualize and analyze large amounts of data. Intellicus helps organizations make better informed decisions with the help of our easy-to-use, self-serve reports and dashboards.

Intellicus' highly informative reports enable user interactivity and provide thrilling end user experience. Our intuitive, drag-and-drop UI enables you to customize reports according to your business needs and derive meaningful insights.

Intellicus is OWASP compliant and it follows industry standard testing methodology for the security of Web applications. It protects user's data from web based security vulnerabilities such as Cross-site scripting (XSS), SQL Injection etc. Intellicus is 3 Green star rated Web application by MicroFocus FOD (Fortify on Demand) security testing tool.

Intellicus 16 Offerings

Intellicus BI (Report) Server is a highly scalable server that is capable of handling simultaneous reporting requests 24x7 without performance issues and delivering rich formatted reports in any of the offered formats. BI server has built-in reporting engine, OLAP engine, scheduling and delivery engine and data extraction and transformation engines. A very simple SOA (Service Oriented Architecture) that provides a high value to the complete organization's multifaceted BI needs.

Intellicus Web Portal provides web-based secure access to all Intellicus functionalities from end user reporting to data administration and monitoring. Navigation panel and Objects Explorer provide users quicker access to functionalities.

Dashboards collate multiple key performance indicators, drillable to detailed, richly designed graphical reports. Each end user gets a personalized and customizable view of dashboard, according to the business needs.

Intellicus Studio helps to design richly formatted graphical reports with pixel perfect alignment of data represented as charts, tables and matrices. Features like drill down, conditional formatting and alerting will improve your report viewing experience.

Ad hoc Reporting empowers your business end users to tweak their ad hoc reports according to emergent needs allowing decision makers to access required business facts in an agile fashion.

Smart View is a self-service tool to design smart reports with drag and drop actions for performing on-the-fly operations. It allows you to choose visualizations according to relationships between different data elements, and helps you uncover new patterns and insights. These include GIS maps, tree maps, heat maps, packed bubbles, funnel, counter, gauge, donut, scatter plot and other advanced visualizations.

OLAP engine provides a multidimensional data storage and pre-aggregation solution. Huge volumes of transactional data can be summarized on multiple dimensions at multiple levels.

High Speed View allows to build multi-dimensional cubes of data from multiple data sources. You can slice and dice the dimensions, drill through multiple levels and analyze your data for deeper business insights. With one click, Intellicus lets you burst open your cube in all possible dimensions, and lets you slice and dice all views at the same time.

Heterogeneous Data Sourcing of Intellicus lets you connect to multiple databases of your organization to correlate their data and prepare common cubes and reports from them.

Scheduler allows users to create recurring jobs to generate reports and deliver by email, print or publishing on FTP locations.

Mobile Analytics Server and iOS /Android application, combined together, provide the Reporting and Dashboard functionalities on popular mobile devices to decision makers for on-the-move access of required information in the required format.

2 Instantiating Intellicus on Microsoft Azure

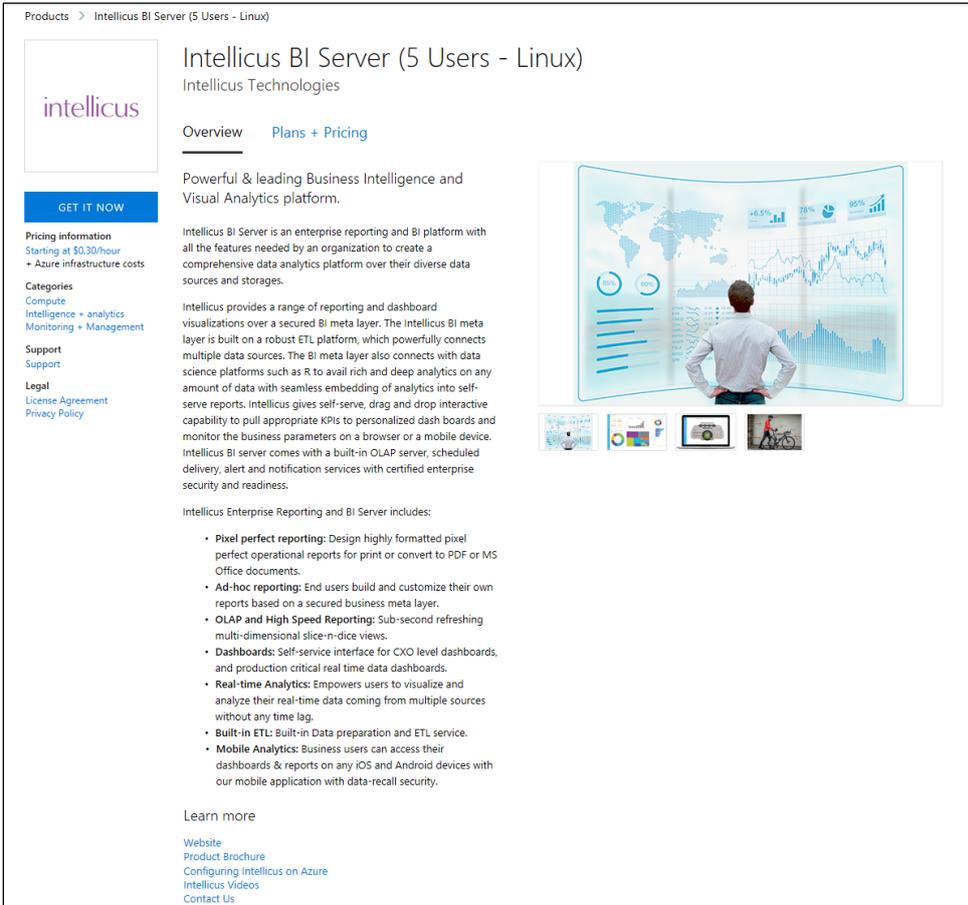
This chapter provides information and steps to get you started with Intellicus on your cloud machine (Microsoft Azure) in the quickest way.

Choosing and instantiating Intellicus from cloud based machine

Intellicus can be bought on hourly basis from the Azure marketplace and is not covered by any Azure credits you might have.

Login to the marketplace (<https://azuremarketplace.microsoft.com/en-us>) and search Intellicus for Linux operating system.

Once you select Intellicus, you need to click 'Get It Now' to instantiate the Intellicus VM image.



Products > Intellicus BI Server (5 Users - Linux)

Intellicus BI Server (5 Users - Linux)

Intellicus Technologies

[Overview](#) [Plans + Pricing](#)

Powerful & leading Business Intelligence and Visual Analytics platform.

Intellicus BI Server is an enterprise reporting and BI platform with all the features needed by an organization to create a comprehensive data analytics platform over their diverse data sources and storages.

Intellicus provides a range of reporting and dashboard visualizations over a secured BI meta layer. The Intellicus BI meta layer is built on a robust ETL platform, which powerfully connects multiple data sources. The BI meta layer also connects with data science platforms such as R to avail rich and deep analytics on any amount of data with seamless embedding of analytics into self-serve reports. Intellicus gives self-serve, drag and drop interactive capability to pull appropriate KPIs to personalized dash boards and monitor the business parameters on a browser or a mobile device. Intellicus BI server comes with a built-in OLAP server, scheduled delivery, alert and notification services with certified enterprise security and readiness.

Intellicus Enterprise Reporting and BI Server includes:

- **Pixel perfect reporting:** Design highly formatted pixel perfect operational reports for print or convert to PDF or MS Office documents.
- **Ad-hoc reporting:** End users build and customize their own reports based on a secured business meta layer.
- **OLAP and High Speed Reporting:** Sub-second refreshing multi-dimensional slice-n-dice views.
- **Dashboards:** Self-service interface for CXO level dashboards, and production critical real time data dashboards.
- **Real-time Analytics:** Empowers users to visualize and analyze their real-time data coming from multiple sources without any time lag.
- **Built-in ETL:** Built-in Data preparation and ETL service.
- **Mobile Analytics:** Business users can access their dashboards & reports on any iOS and Android devices with our mobile application with data-recall security.

Learn more

[Website](#)
[Product Brochure](#)
[Configuring Intellicus on Azure](#)
[Intellicus Videos](#)
[Contact Us](#)

Figure 1: Intellicus on Azure Marketplace

Click 'Continue' after reading and understanding "terms of use" and "privacy policy".

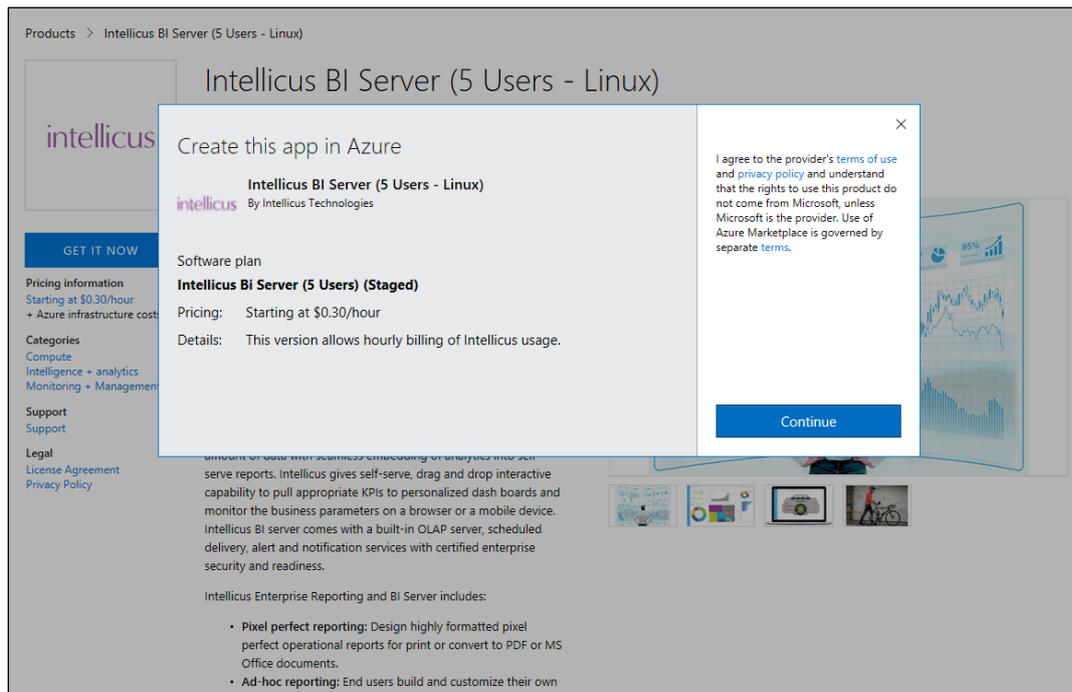


Figure 2: Create Intellicus application in Azure

Next, click 'Create' on Figure 3 after reading the application summary.

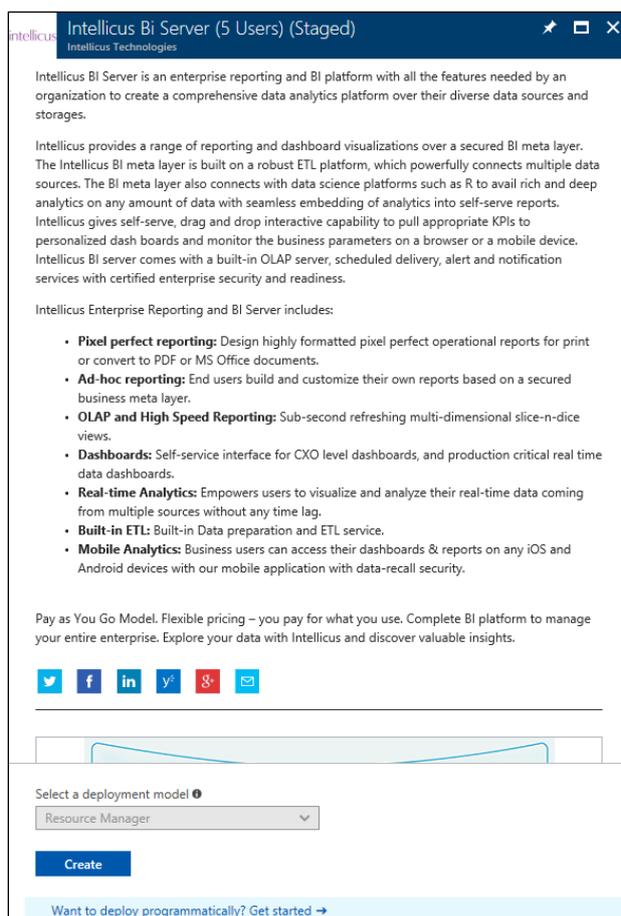


Figure 3: Select deployment model to create Intellicus application in Azure

You now need to configure the virtual machine to specify its name, disk type, user name/password, resource group etc. Click 'OK'.

The image shows a 'Create virtual machine' dialog box with a 'Basics' tab selected. On the left, there is a vertical list of steps: 1 Basics (Configure basic settings), 2 Size (Choose virtual machine size), 3 Settings (Configure optional features), and 4 Summary (Intellicus Bi Server (5 Users) (St...)). The main area contains the following configuration options:

- Name:** intellicusLX2 (with a green checkmark)
- VM disk type:** HDD (with a dropdown arrow)
- User name:** intellicus (with a green checkmark)
- Authentication type:** SSH public key (selected) and Password (unselected)
- Password:** [masked with dots] (with a green checkmark)
- Confirm password:** [masked with dots] (with a green checkmark)
- Subscription:** Pay-As-You-Go (with a dropdown arrow)
- Resource group:** Intellicus_RG (with a dropdown arrow). Radio buttons for 'Create new' (selected) and 'Use existing' are present.
- Location:** Central India (with a dropdown arrow)

An 'OK' button is located at the bottom center of the dialog.

Figure 4: Configure basic settings of virtual machine

Next, choose size of the virtual machine as shown in Figure 5. Click 'Select'.

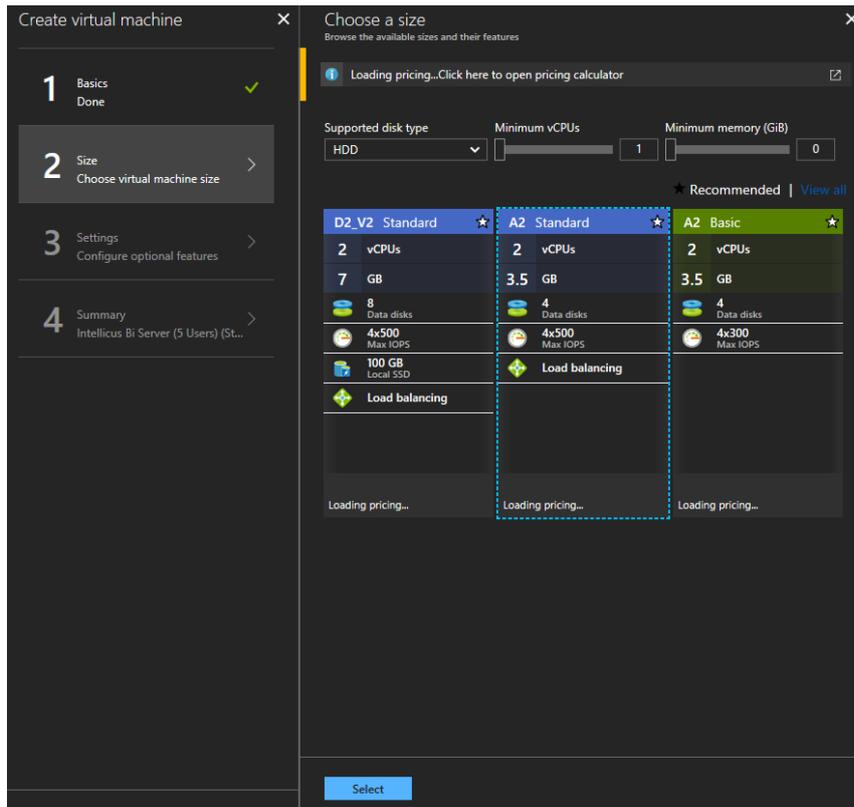


Figure 5: Choose virtual machine size

You can optionally choose to configure high availability, storage etc. as shown in Figure 6 and click 'OK'.

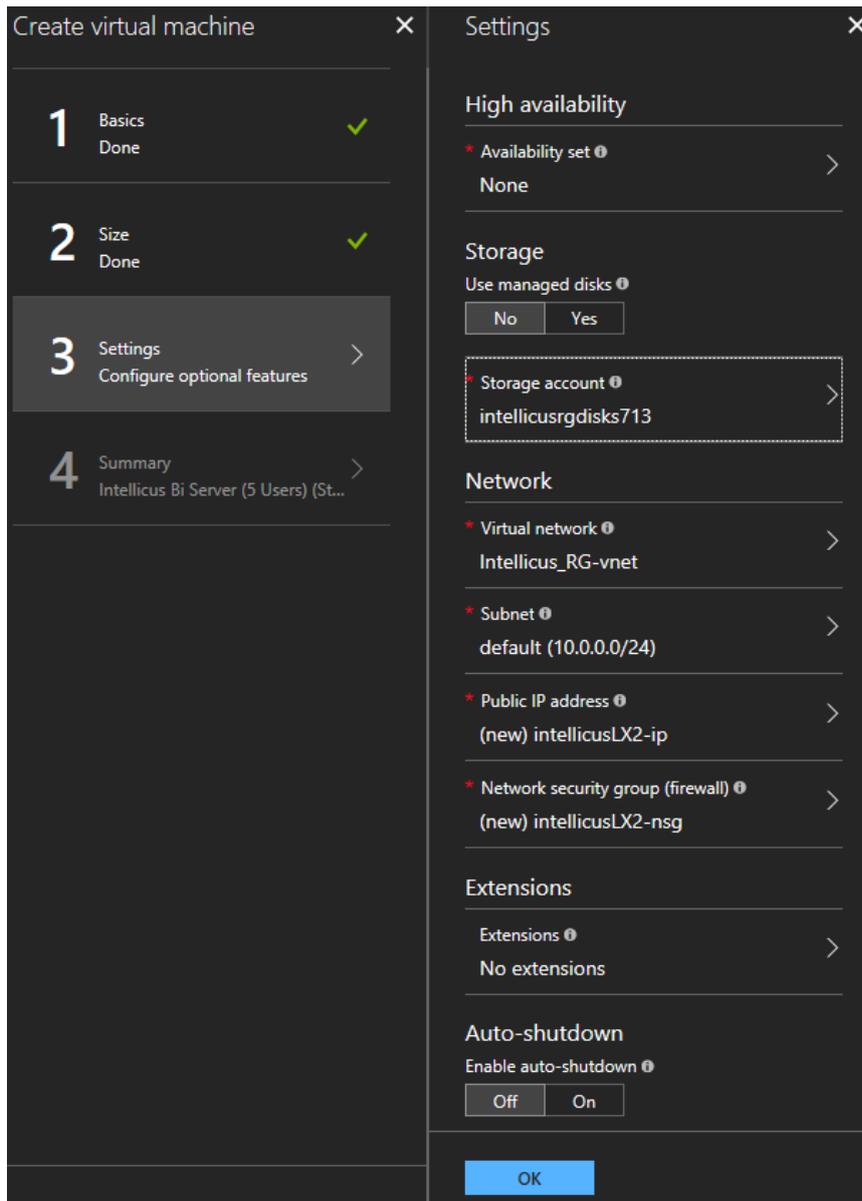


Figure 6: Configure optional features of virtual machine

Once you are done specifying the virtual machine settings, you can preview the summary. Click 'Purchase' to start Intellicus deployment.

The screenshot shows the 'Create virtual machine' wizard in the Azure portal. The left sidebar contains four steps: 1 Basics (Done), 2 Size (Done), 3 Settings (Done), and 4 Summary (Intellicus BI Server (5 Users) (St...)). The main panel is titled 'Create' and shows a 'Validation passed' message. Below this, the 'Offer details' section lists two options: 'Intellicus BI Server (5 Users - Linux)' at 0.3000 USD/hr and 'Standard A2' at 0.1310 USD/hr. A warning icon indicates that the highlighted marketplace purchase is not covered by Azure credits. An information icon explains that Azure resource funds can be used for these purchases. The 'Summary' section includes a table for Basics (Subscription: Pay-As-You-Go, Resource group: Intellicus_RG, Location: Central India) and Settings (Computer name: intellicusLX2, Disk type: HDD). A 'Terms of use' section contains a scrollable text area with legal terms. At the bottom, there are 'Create' and 'Download template and parameters' buttons.

Basics	
Subscription	Pay-As-You-Go
Resource group	Intellicus_RG
Location	Central India

Settings	
Computer name	intellicusLX2
Disk type	HDD

Figure 7: Summary preview of virtual machine

Once the deployment is successful, you can see the Public IP address that would be required to launch the Intellicus application.

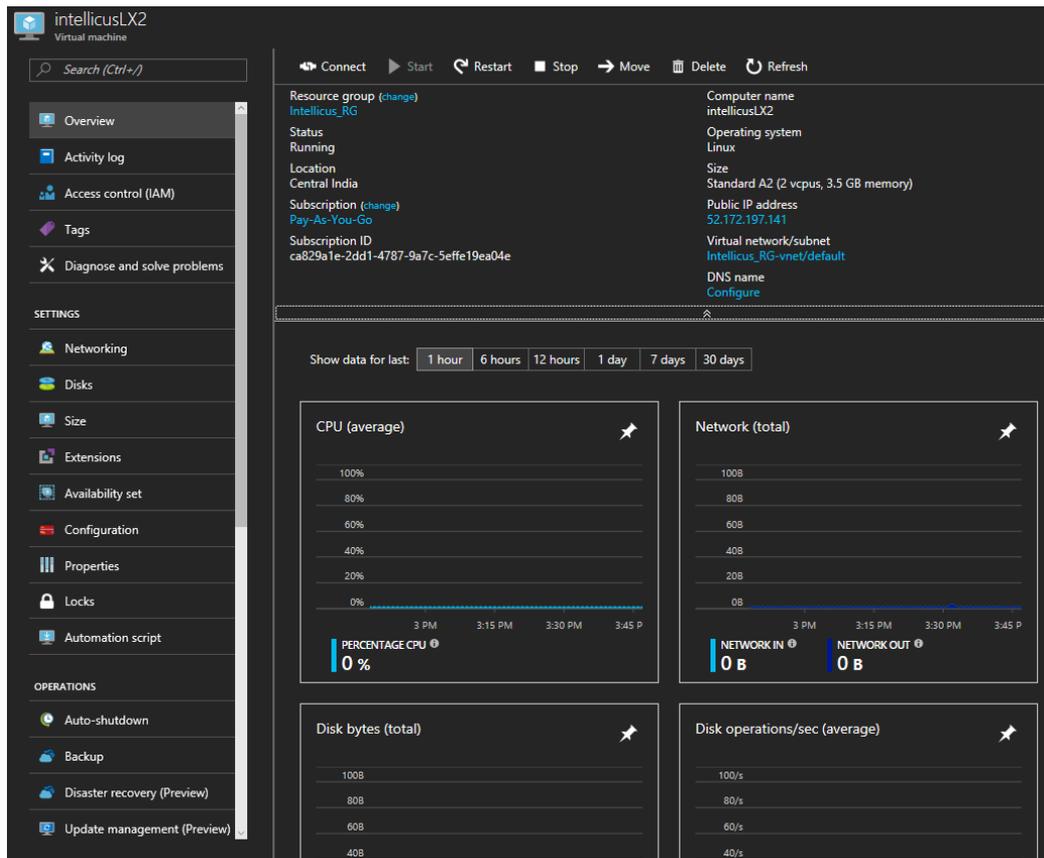


Figure 8: Successful Deployment of Intellicus

Note: The default OS on Linux VM is Red Hat Enterprise 7.4

Intellicus will be launched automatically as soon as the deployment completes. In case Intellicus does not start up on a Linux based machine, you need to manually start the application using the below commands:

```
cd Intellicus
./intellicus.sh start
```

```
[intellicus@intellicusLX2 Intellicus]$ ./intellicus.sh status
iEngine is stopped
java is stopped
[intellicus@intellicusLX2 Intellicus]$ ls
Acknowledgements docs jakarta reportengine SampleCodes
APIs intellicus.sh jre reportserver.sh webserver.sh
[intellicus@intellicusLX2 Intellicus]$ ./intellicus.sh start
```

Figure 9: Starting Intellicus

To check the status of the application, run the intellicus.sh script file with status as user input as shown below:

./intellicus.sh status

```
[intellicus@intellicusLX2 Intellicus]$ ls
Acknowledgements docs jakarta reportengine SampleCodes
APIs intellicus.sh jre reportserver.sh webserver.sh
[intellicus@intellicusLX2 Intellicus]$ ./intellicus.sh status
iEngine (pid 947) is running...
java (pid 911) is running...
[intellicus@intellicusLX2 Intellicus]$
```

Figure 10: Status of Intellicus servers

This will return the status of Intellicus report and web servers.

You can also stop the report and web servers using the below command:

./intellicus.sh stop

```
[intellicus@intellicusLX2 Intellicus]$ ./intellicus.sh status
iEngine (pid 957) is running...
java (pid 921) is running...
[intellicus@intellicusLX2 Intellicus]$ ./intellicus.sh stop
*****Using class Path *****
.
Using CATALINA_BASE: /home/intellicus/Intellicus/jakarta
Using CATALINA_HOME: /home/intellicus/Intellicus/jakarta
Using CATALINA_TMPDIR: /home/intellicus/Intellicus/jakarta/temp
Using JRE_HOME: ../../jre
Using CLASSPATH: /home/intellicus/Intellicus/jakarta/bin/bootstrap.jar:/h
me/intellicus/Intellicus/jakarta/bin/tomcat-juli.jar
[intellicus@intellicusLX2 Intellicus]$ ./intellicus.sh status
iEngine is stopped
java is stopped
```

Figure 11: Stopping Intellicus

In case of any difficulty instantiating Intellicus from marketplace, you can contact our support team (support@intellicus.com) or download evaluation version from the web site: www.intellicus.com

Note: You can stop the virtual machine during off-hours on Azure portal. While in the “Stopped” status, you will not be paying for the VM resources and Intellicus. The IP address required to launch Intellicus application might change on restarting the virtual machine on Azure.

3 Running Intellicus Instance on Azure

After you have initiated the VM, Intellicus service gets automatically started. You can directly access Intellicus application through your own machine.

Launching Intellicus Portal

Running Intellicus from User Machine

Intellicus provides browser based user interface. When VM has successfully launched, specify the Public IP address in your browser's address bar to launch Intellicus through user's machine:

`http://<Public IP address>:<Port>/intellicus`

For example, if your IP address is '52.102.198.35', you can use below links:

`http://52.102.198.35:8080/intellicus`

`https://52.102.198.35:8443/intellicus`

At present, self-signed certificate (https certificate) is available on Intellicus application. But you can deploy your own purchased certificate, if required.

Intellicus URL Password

Below are the default credentials provided by Intellicus:

- User Name: Admin
- Password: Admin
- Organization Name: Intellicus
(Click "More Option" if you wish to select any organization other than the default.)

It is mandatory to change default password of Intellicus URL.

NOTE: You can change default password once logged onto Intellicus application (from My Preference page).

To explore and evaluate all the features of Intellicus, login using Admin / Admin user name and password combination. The below screen enables you to login to the application.

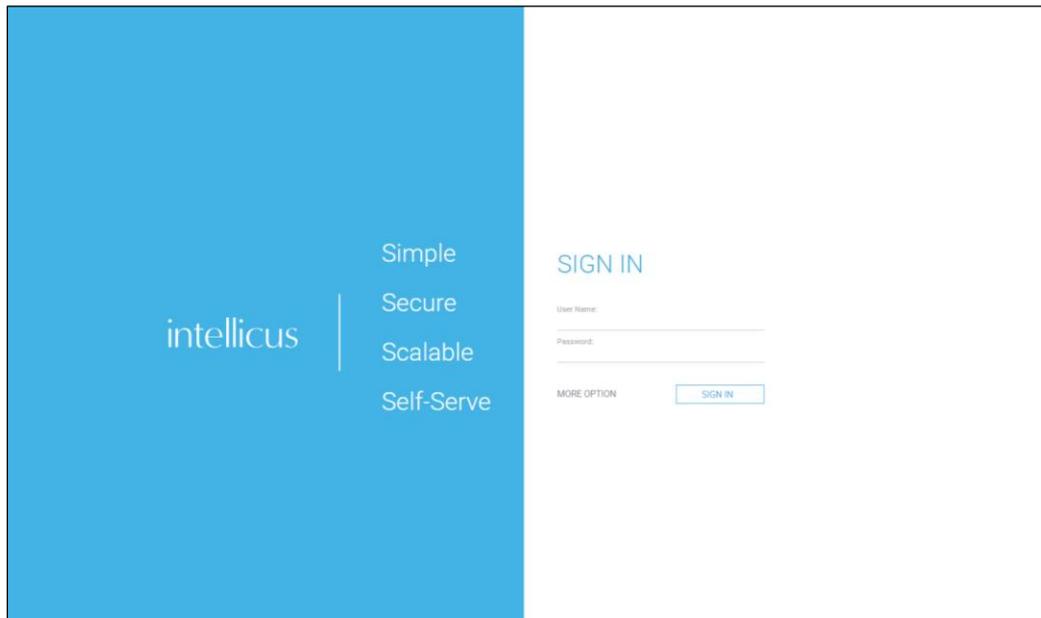


Figure 12: Intellicus login page

In case Intellicus URL begins with "https://", port 8443 is used by default; while URL beginning with "http://" uses port 8080 by default.

Changing the Default Port number

Below is the information on how to change the port number when Jakarta Web Server is used.

Login on to the VM machine through WinSCP. The port number information is stored in server.xml file.

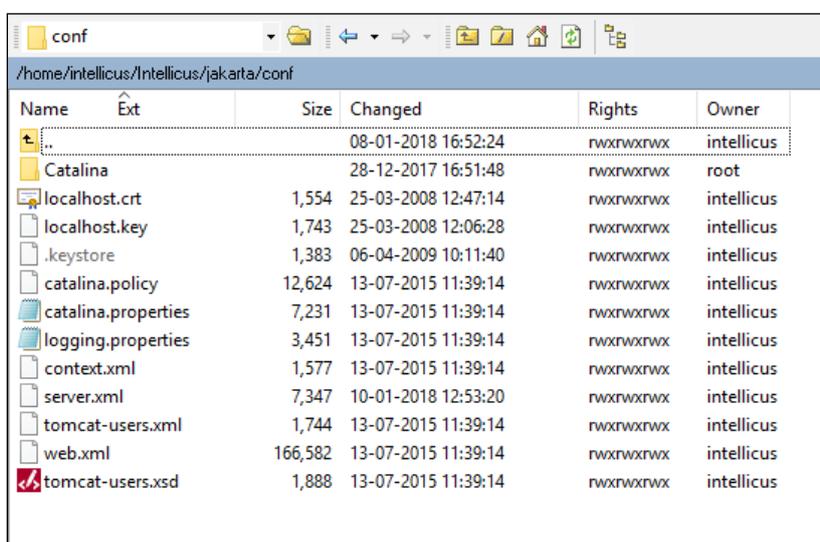
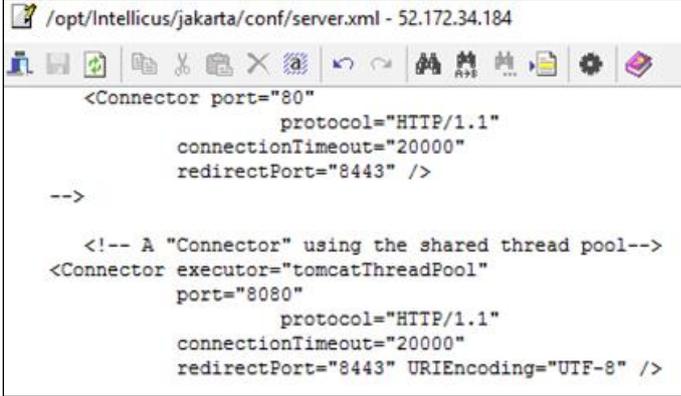


Figure 13: Location of server.xml

To change the port number:

- Open server.xml in a text editor.
- Change the value of **Connector port** to a number that is free.
- Save the changes.



```

/opt/Intellicus/jakarta/conf/server.xml - 52.172.34.184
<Connector port="80"
    protocol="HTTP/1.1"
    connectionTimeout="20000"
    redirectPort="8443" />
-->
<!-- A "Connector" using the shared thread pool-->
<Connector executor="tomcatThreadPool"
    port="8080"
    protocol="HTTP/1.1"
    connectionTimeout="20000"
    redirectPort="8443" URIEncoding="UTF-8" />

```

Figure 14: Changing the port number

NOTE: If you are planning to change existing default ports, it is mandatory that such ports should be accessible to outside network.

After successful login, the following Home Page appears:

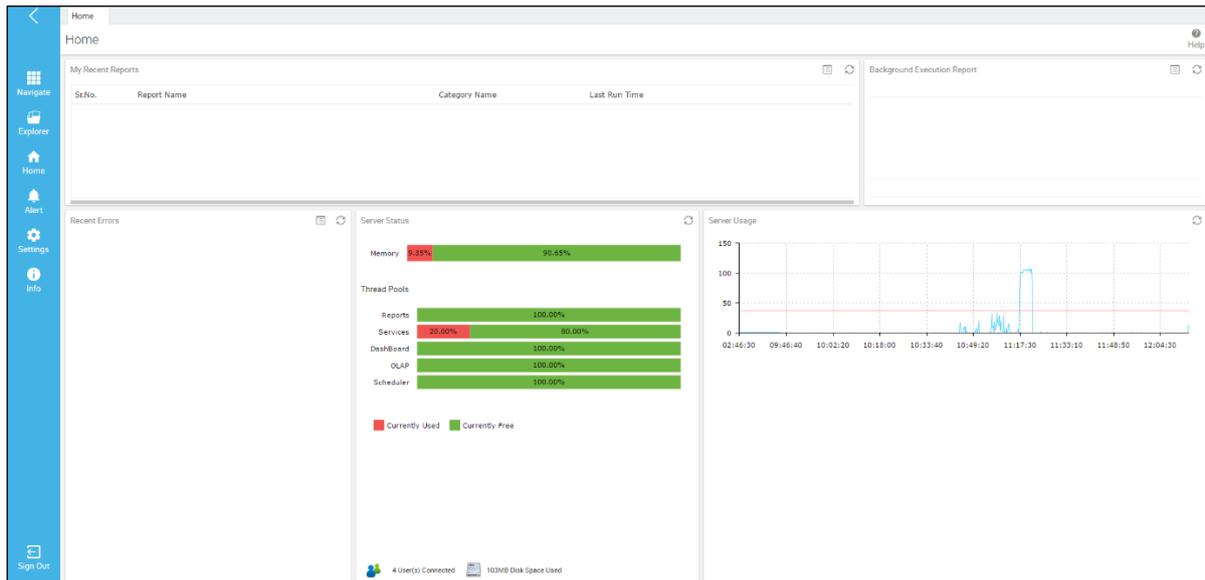


Figure 15: Home page for the Admin user

4 Delving into Intellicus features

Intellicus on cloud installation includes a limited demo data which you can use to get a feel of Intellicus features. But, you can use your own data and perform analytics on it.

Explore what you can do on portal

Listed below are some of the portal pages you may wish to explore.

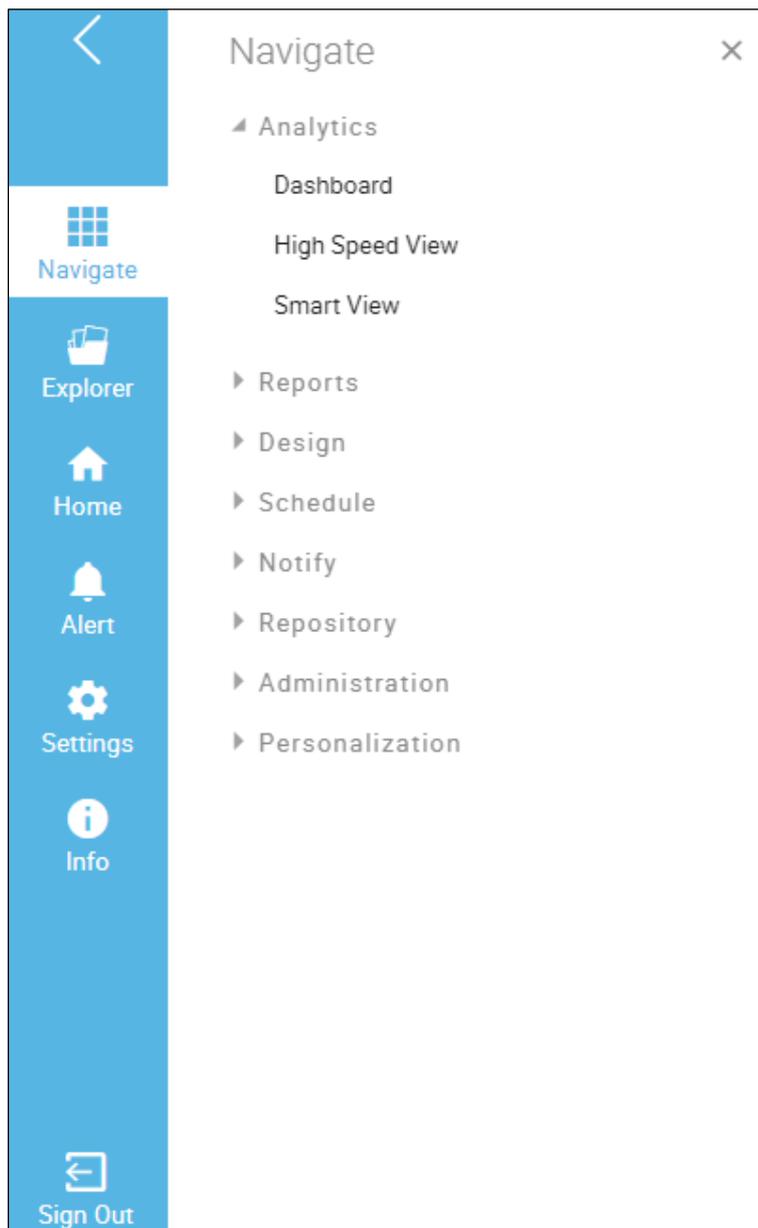


Figure 16: Intellicus Menu

Connecting to User Data/Database

Database Connections: Navigate > Administration > Configure > Databases

Intellicus supports most of the widely used databases as listed below:

- Oracle
- MS SQL Server
- MySQL
- PostgreSQL
- Sybase
- Cache DB
- ODBC (for Excel Data Source)
- DB2
- Hadoop
- HIVE
- HBASE
- IMPALA
- HP Vertica
- H2
- Greenplum
- Aster Data
- Teradata
- Amazon EC2
- Cassandra
- MongoDB
- SQLite
- Elastic Search
- Files/Stream (S3, FTP, Kafka, SAX, Google Sheet)
- Web Service (REST & SOAP)
- Social Media (Twitter)
- Amazon Redshift

Intellicus uses set of third-party libraries to extend support to the functionalities that these provide. Therefore, you need to provide these library files manually using 'Add' button under Database Connection page. To know more, refer [*WorkingwithDatabaseConnections.pdf*](#)

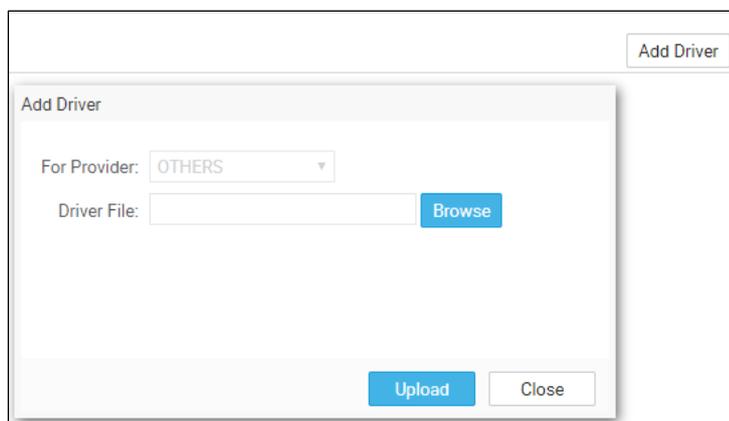


Figure 17: Add Driver

The details of library files are available under [acknowledgements.html](#).

On Premise/Cloud Database

Intellicus is empowered to connect with the databases if running on cloud or on premises.

There should be network connectivity between your database and Intellicus to perform reporting and analytics, if your database resides on premise.

Similarly, on cloud database, relevant database ports should be made available so that proper connection can be established.

Analytics on User Data (CSV)

CSV as data source

You can also perform analytics on your own CSV data by uploading the file (zipped/unzipped) to Intellicus. - This can be achieved using the Query Object Designer on Intellicus portal as shown in Figure 15.

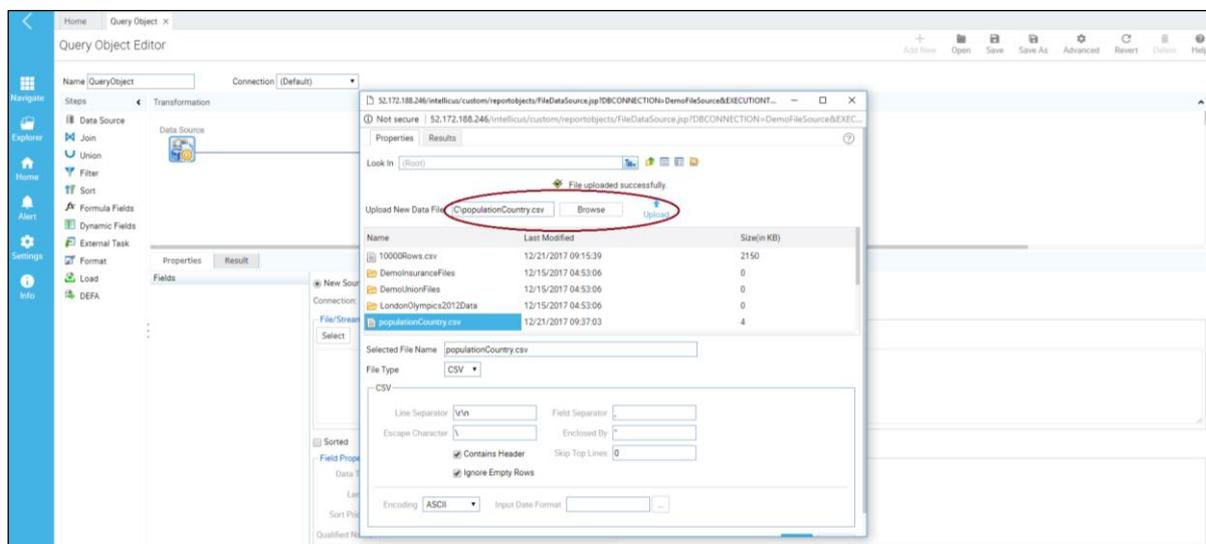


Figure 18: Upload CSV File in Intellicus

Note: To upload more than 10 MB CSV file, you need to make sure that IS_DIRECT_UPLOAD property should be set as 'true' in ReportClient.properties file available at \Intellicus\Jakarta\webapps\intellicus\client\config

Exploring Intellicus Features

Query Objects / Data Sources: Navigate > Design > Query Object

Query Objects form the business meta-layer for end user reporting. Query Objects hide the physical database details, SQL complexities, table names etc. from the end user.

A query object contains details to fetch desired data from a data connection. A query object acts as a data source to reports, parameter and analytical objects.

(For details, refer [WorkingwithQueryObjects.pdf](#))

Smart Report: Navigate > Analytics > Smart View

A self-service tool to design reports with drag and drop actions for performing on-the-fly operations.

Get contemporary style of web controls like dynamic data grids and various charting options for data depiction.

(For details, refer [ConfiguringAdhocReporting.pdf](#), [WorkingwithSmartView.pdf](#))

High Speed Report (OLAP Reports): Navigate > Analytics > High Speed View

Intellicus' evolved multi-dimensional analytics to let you explore your data from all dimensions in a single screen to get a panoramic view of your business at the speed of your thought.

(For details, refer [WorkingwithHighSpeedView.pdf](#))

Ad hoc Reports –customization and report design: Navigate > Administration > Configure > Ad hoc Wizard, Navigate > Design > Ad hoc Template, Navigate > Design > Ad hoc Report, Navigate > Analytics > Smart View

Ad hoc reporting feature brings report design functionalities from designers to the users. Users can not only view report output, but also study and analyze the output by carrying out a number of analysis activities like sorting, grouping and filtering the output without returning to the designer screen.

(For details, refer [ConfiguringAdhocReporting.pdf](#), [DesigningAdhocReports.pdf](#))

Running Reports: Explorer > expand category > right click the report > select the Run Report option

Intellicus provide facility to run a report in different formats. Apart from this you can also schedule (using Quick Schedule and Batch Scheduling option) and view results later on.

(For details, refer [RunningReportsInIntellicus.pdf](#), [BatchScheduler.pdf](#))

Dashboards: Navigate > Design > Dashboard Widget, Navigate > Analytics > Dashboard

To visualize your business data at a glance, monitor overall performance and make informed business decisions.

(For details, refer [CreatingDashboardWidgets.pdf](#), [WorkingwithDashboards.pdf](#))

Batch Scheduler: Navigate > Schedule > Jobs

Scheduling of reports is very helpful for better utilization of server and printer resources.

(For details, refer [BatchScheduler.pdf](#))

Configurations: Navigate > Administration > Configure

You can configure properties related to Report Server and Client (portal) as well as configure email templates and customize configuration files.

(For details, refer [ConfiguringIntellicus.pdf](#))

Favorites: Explorer > expand category > right click the object > select the **Add to favorites** option

Standard Reports: Intellicus standard reporting enables you to create pixel-perfect, form style and printable format reports to support your organization's operational tasks. An enterprise-grade scheduler and dispatcher of Intellicus helps you distribute the soft copies to thousands of users without manual intervention.

Mobile Analytics

Intellicus Mobile BI takes your reports and analytics to tablets and phones, on both Android and iOS platforms. Our mobile analytics solution delivers instant access to your important business insights.

You can perform ad hoc and multidimensional analysis on the move with or without internet connectivity. Intellicus Mobile lets you update data when online, interact and analyze while offline.

To achieve business analytics on mobile devices, follow the below steps to install and start using Intellicus Mobile.

1. Go to Play Store (for android devices) or App Store (for iOS devices).
2. Search Intellicus and tap “Install”.
You will see the memory required to install Intellicus application.
3. After opening the application, you would be prompted to enter the server address where your Intellicus web application is running along with the Username/Password.
4. You can now see the Home screen of Intellicus Mobile as shown in Figure 20. This lists the entities as Smart View (for analyzing query objects), Reports (for viewing smart, standard, ad hoc and OLAP reports), High Speed View (For viewing and analyzing cube objects) and Dashboards (for viewing dashboards).

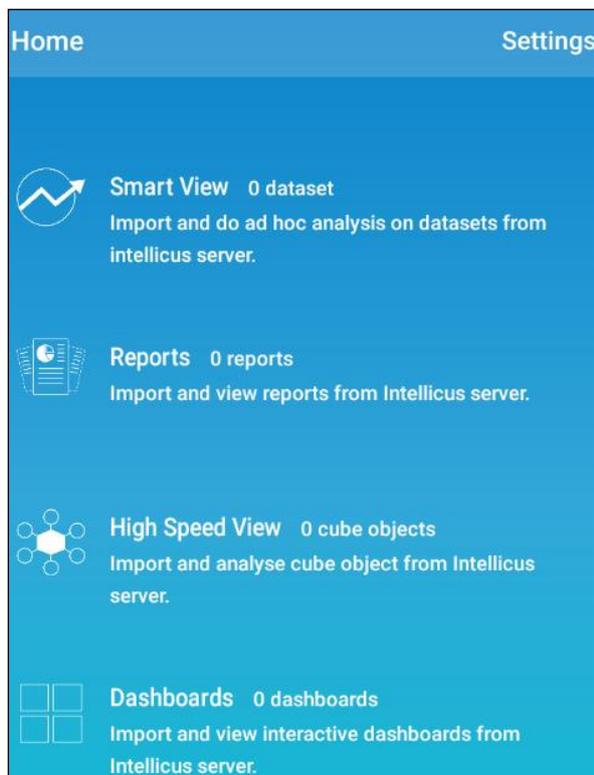


Figure 19: Home page of Intellicus Mobile

- Next, you have to import/subscribe datasets, reports, cube objects or dashboards already created in Intellicus web application.

Tapping Smart View would list the datasets you can choose to import as shown in Figure 21.

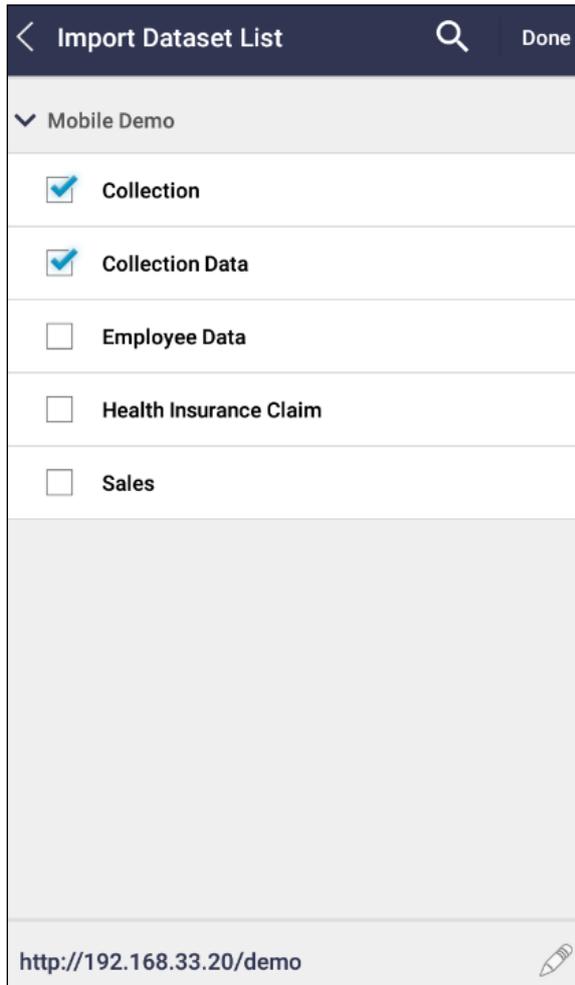


Figure 20: Import Dataset in Smart View

Select the datasets to import. This would import the selected datasets from Intellicus server to the mobile application.

6. You can choose to browse, analyze or update the dataset on tapping the selected dataset.

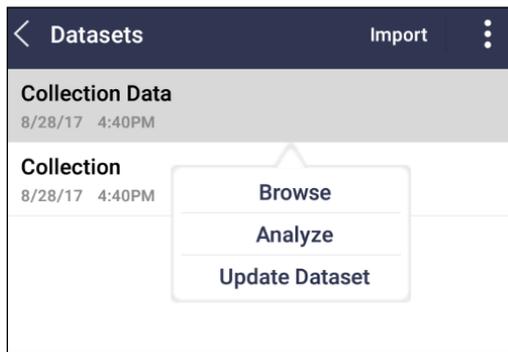


Figure 21: Actions on Dataset

Tap “Browse”. The data in the grid appears as shown in Figure 23.

The screenshot shows a mobile application interface with a dark blue header containing a back arrow, the text 'Collection Data', and a menu icon. Below the header is a table with the following columns: State, City, Depart..., Revenu..., and Collecti... The table contains 15 rows of data. At the bottom of the screen, there is a gear icon representing settings.

State	City	Depart...	Revenu...	Collecti...
Washi...	Albion	Food &...	Tax on...	01/11/...
Washi...	Bucoda	Agricult...	Tax on...	01/11/...
Washi...	Bucoda	Agricult...	Tax on l...	01/11/...
Washi...	Bucoda	Excise	Tax on...	01/11/...
Washi...	Bucoda	Home	Fees on...	01/11/...
Washi...	Bucoda	Tourism	Fine on...	01/11/...
Washi...	Coupe...	Food &...	Fine on...	01/11/...
Washi...	Coupe...	Home	Fine on...	01/11/...
Washi...	Coupe...	Tourism	Tax on...	01/11/...
Washi...	Darrin...	Food &...	Tax on...	01/11/...
Washi...	Darrin...	Public...	Fine on...	01/11/...
Washi...	Eaton...	Home	Fine on...	01/11/...
Washi...	Farmi...	Tourism	Tax on...	01/11/...
Washi...	Friday...	Excise	Tax on l...	01/11/...
Washi...	Friday...	Public...	Excise...	01/11/...
Washi...	Friday...	Tourism	Tax on...	01/11/...

Figure 22: Grid visualization on Smart View

7. Tap the gear button  at the bottom  the screen (Figure 23) to choose the fields that should appear on Smart View. Tap and move  to reorder the fields.

For detailed analysis, you can apply grouping, filtering, totaling, sorting etc. on the chosen dataset.

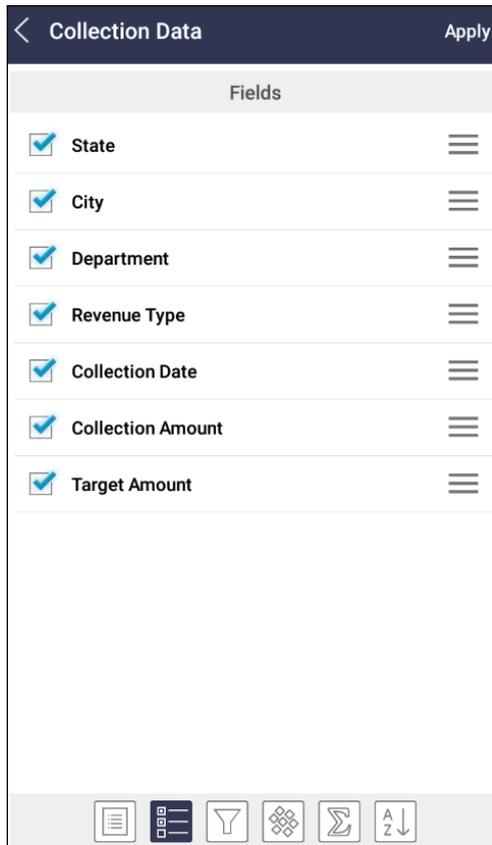


Figure 23: Grid operations on Smart View

- You can also analyze your data in the form of charts by tapping the “Analyze” option on Figure 22. Intellicus enables to choose from a wide variety of charts to build visually rich reports on your mobile device.

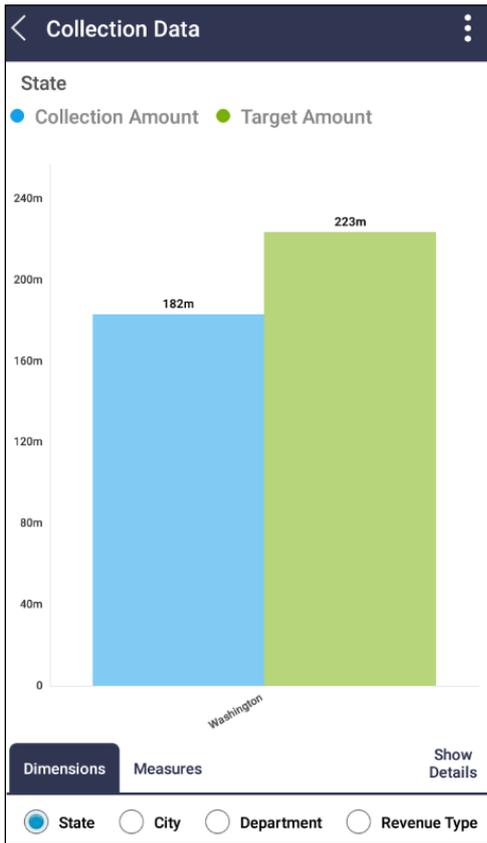


Figure 24: Chart visualization on Smart View

You can save the Smart View at any time while browsing or analyzing the data. Tap the ellipsis icon  on an android device or  on an iOS device to choose the option to save the view.

- Tapping “Update Dataset” on Figure 22 fetches the recent dataset from the server.
- You can choose the below operations to perform on the dataset listing.
 - Import: To import more datasets from Intellicus server. Tap “Import” on an android device or iOS device to select the import option.
 - Update All: To fetch all the recent datasets which have been listed from Intellicus server. Tap the ellipsis icon  on an android device to select the “Update All” option.
 - Manage or Edit: Tap the ellipsis icon  on an android device to either delete or update the individual dataset from the server. Alternately, you can tap “Edit” on an iOS device to delete a dataset.

Dataset Name	Timestamp	Operation
Collection Data	8/28/17 4:55PM	Update All
Collection	8/28/17 4:55PM	Manage

Figure 25: Operations on Dataset listing

11. Similarly, analysis can be done on smart, standard, ad hoc and OLAP reports by tapping “Reports” on the Home screen.
12. Intellicus High Speed Reports extend to mobile devices. Tap “High Speed View” to subscribe and analyze cube object from Intellicus server. Tap “Subscribe” to import cube objects from Intellicus server.
13. Select a cube object and tap “View” to view and analyze as shown in Figure 27.

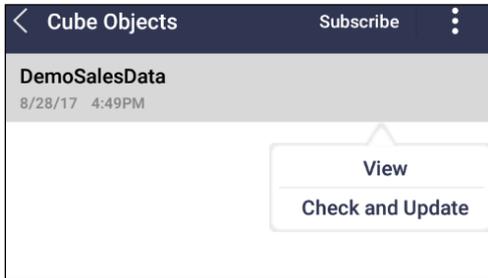


Figure 26: Cube Objects' operations

On viewing the cube object, you see the measures and dimensions on the High Speed View as shown in Figure 28.

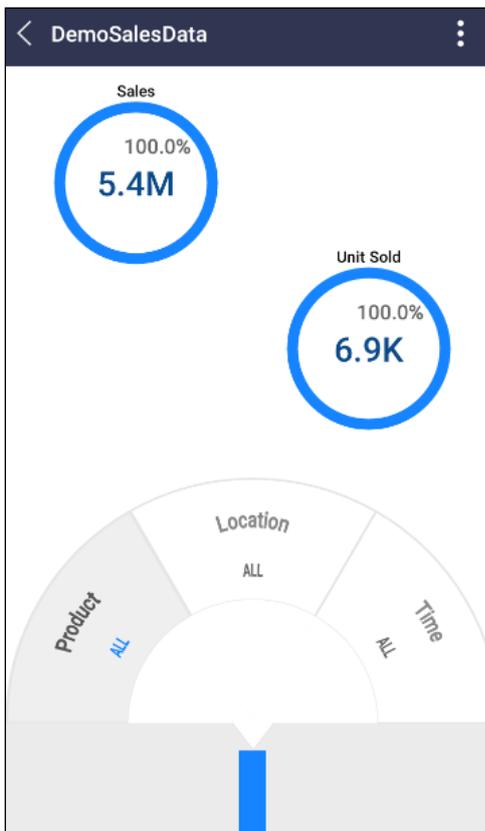


Figure 27: High Speed View

You can swipe the screen or spin the wheel in case of more than measures or dimensions that can fit the screen. If you have only 2 dimensions, 1 dummy dimension gets added to the wheel.

You can select specific dimension values on the dimension wheel to view their corresponding measure values and percentiles as shown in Figure 29.

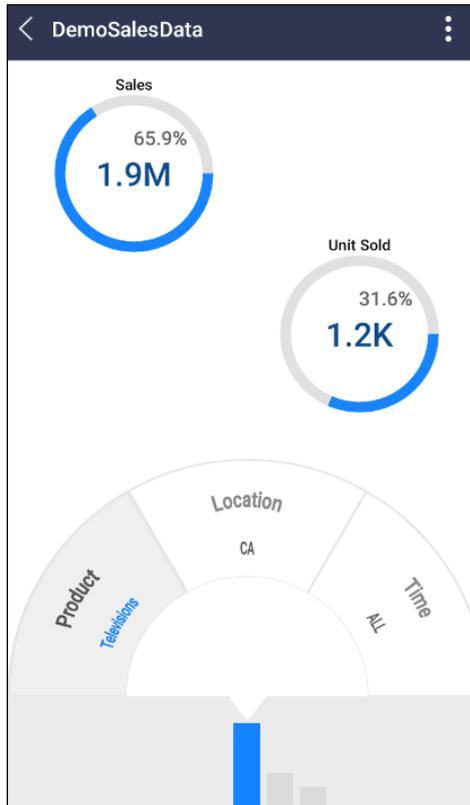


Figure 28: Specific Dimension selected on High Speed View

Tapping “Check and Update” on Figure 27 checks if the selected cube has been rebuilt since last fetched and thereby fetches the recent cube data from the server.

14. Tap “Dashboards” on the Home screen to import and view Intellicus’ interactive dashboards. Tap the “Import” button to import the already created dashboards from Intellicus server. Once imported, you see the dashboard listing on the mobile device. Select a dashboard and tap “View” to see the dashboard.

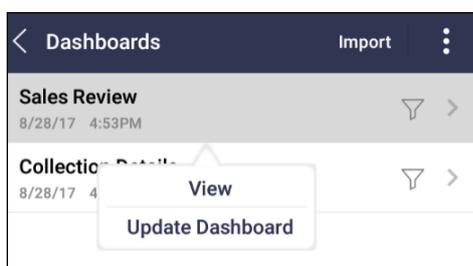


Figure 29: View Dashboard on mobile device

The dashboard appears as shown in Figure 31. The widgets can be scrolled up and down using the arrows.

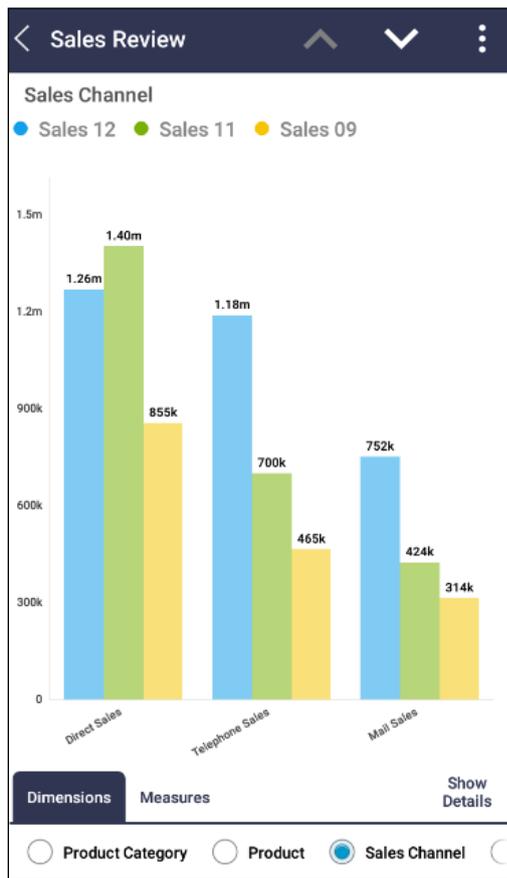


Figure 30: Dashboard on mobile device

15. On Home screen, tap the "Settings" button to connect to a different Intellicus server in case of multiple servers in your network. You can either add a new server or edit an existing one.

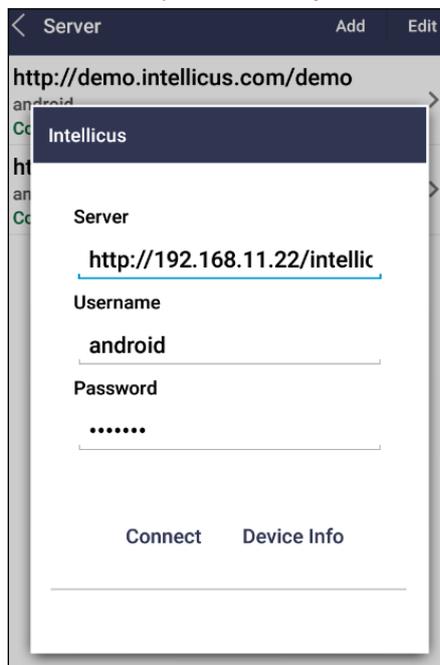


Figure 31: Server Settings

5 Backup and Restore User Data

During Intellicus usage, you create objects like Categories, Reports, Query Objects, Dashboards etc. To protect your data/ metadata and retrieve the same in future running instances, you need backup of these objects. You can take backup of data using the below methods.

Backup Using Intellicus' iPackager tool

Intellicus' iPackager is a utility to package repository objects, users' preferences and configuration settings from Intellicus repository or local file system in a single file (cab file). This packaged information can then be deployed at any installation site of Intellicus. To know more about iPackager, refer "iPackagerManual.pdf" and "DeployingRepositoryBundle.pdf" under <https://www.intellicus.com/product/documents/manuals/16.0/>

Backup using Azure Recovery Services vault

You can use Azure' Recovery Services vault to back up (or protect) and restore your data in the Microsoft cloud for future use or in case of any crashing of system or unintended deletion of files by user. To know about the methods by which you can take backup and restore data, refer <https://docs.microsoft.com/en-us/azure/backup/>

Note: If you try to launch a new instance from VM and bring up Intellicus, the application will not start. However, you can retrieve required files from this instance and use in another already working instance.