

Configuring Intellicus on Microsoft Azure

Version: 18.1

intellicus

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

For details, visit: <http://www.intellicus.com/acknowledgements.htm>

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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.

What does Intellicus 18 Offer?

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, 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.

Data Science enabled Intellicus BI helps you to bring out predictions based on their historical data. This empowers you to take well-informed decisions for your business. With what-if analysis in Intellicus, you can also analyze the predictions based on different conditions. Intellicus lets you connect to different data science engines to process your data. It returns the predicted data on which you can perform further transformation steps and visualize it on the Intellicus UI. Intellicus gives you numerous intuitive charts to understand and analyze your current and predicted data.

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.

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

The screenshot shows the product page for Intellicus BI Server V18.1 (5 Users - Linux) on the Azure Marketplace. The page includes the Intellicus logo, a 'GET IT NOW' button, and a 'SAVE FOR LATER' button. The main content area features a large image of a person standing in front of a futuristic data dashboard with various charts and graphs. Below this image is a list of features and capabilities, including: 'Seamlessly connect data science environments and leverage a single platform to run machine learning algorithms, train models and get predictive insights in easy steps', 'Visualize your business data, monitor overall performance, and make informed decisions. You can drill into critical business KPIs to identify & highlight areas for improvement, derived from multiple data sources', 'Perform sub-second, multi-dimensional analytics to explore all your data on a single screen. You can slice & dice the attributes, drill through or drill down multiple levels & analyze your data for deeper business insights', 'Connect real-time messaging queues like RMQ, Kafka, and more and get insights from your data in real-time', 'Create highly formatted pixel-perfect operational reports. Print and share impeccable invoices, form etc. as per compliance', 'Schedule, export, publish and share reports in different formats, with various stakeholders', 'Assign users and role-based access control as well encrypt and restrict data wherever needed', and 'Get instant alert and notifications on mobile and email whenever an anomaly is detected'.

Figure 1: Intellicus on Azure Marketplace

Click 'Continue' to agree to the terms of use as shown in Figure 2.

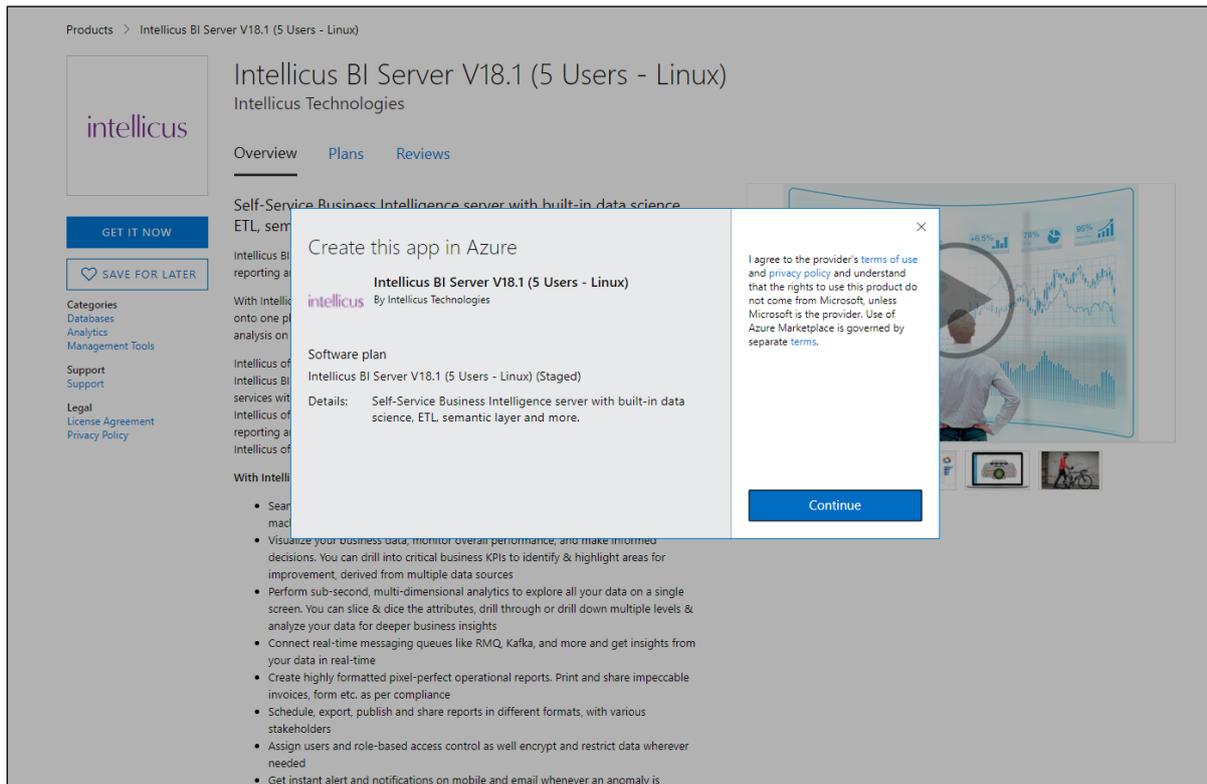


Figure 2: Create Intellicus application in Azure

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

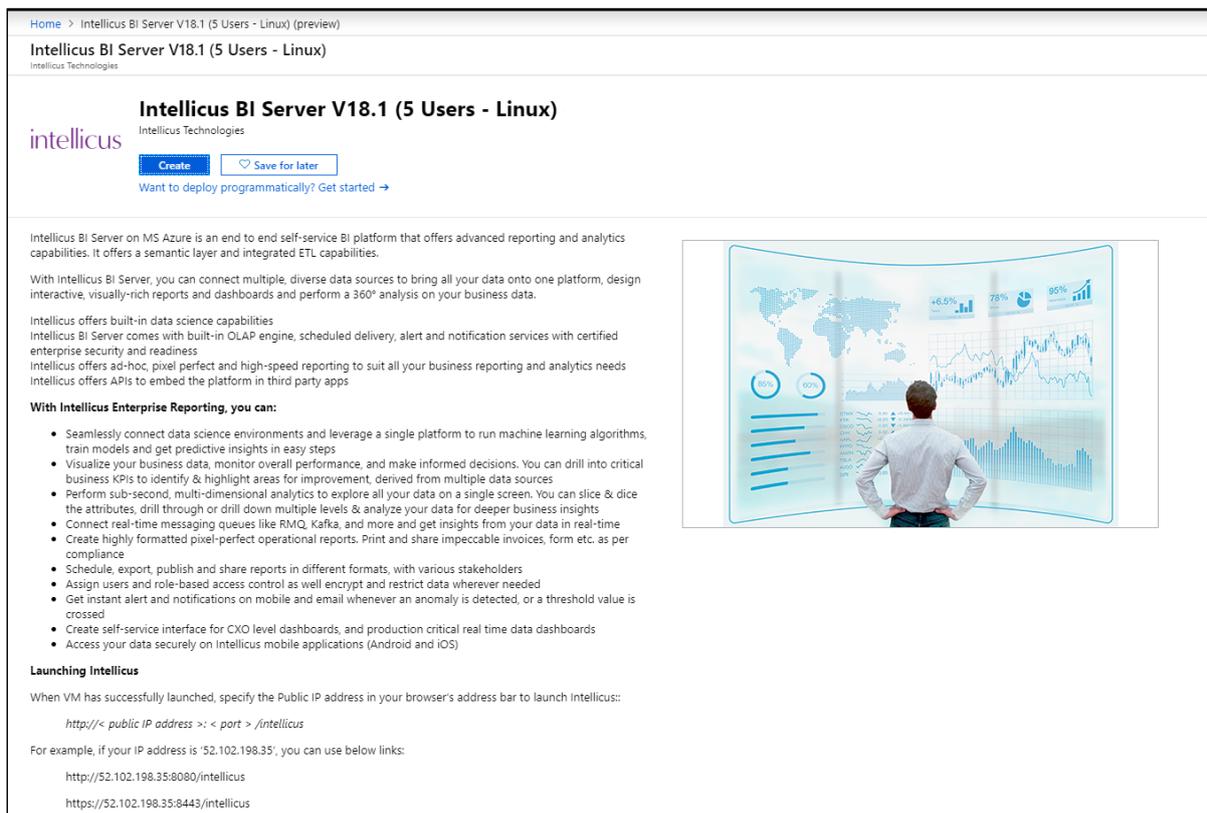


Figure 3: Select deployment model to create Intellicus application in Azure

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

Create a virtual machine

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Advanced](#) [Tags](#) [Review + create](#)

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image.
Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization.
Looking for classic VMs? [Create VM from Azure Marketplace](#)

PROJECT DETAILS
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

* Subscription ?

* Resource group ?
[Create new](#)

INSTANCE DETAILS

* Virtual machine name ?

* Region ?

Availability options ?

* Image ?
[Browse all images](#)

* Size ? **Basic A2**
2 vcpus, 3.5 GB memory
[Change size](#)

ADMINISTRATOR ACCOUNT

Authentication type ? Password SSH public key

* Username ?

* Password ?

[Review + create](#) [Previous](#) [Next: Disks >](#)

Figure 4: Configure basic settings of virtual machine

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

Select a VM size
Browse available virtual machine sizes and their features

Showing 170 VM sizes | Subscription: Impetus-POC | Region: Central India | Current size: Basic_A2

VM SIZE	OFFERING	FAMILY	VCPUS	RAM (GB)	DATA DISKS	MAX IOPS	TEMPORARY STORAGE	PREMIUM DISK SUPP.	COST/MONTH (EST.)
D11_v2	Standard	Memory optimized	2	14	8	8x500	100 GB	No	Unavailable
D12_v2	Standard	Memory optimized	4	28	16	16x500	200 GB	No	Unavailable
D13_v2	Standard	Memory optimized	8	56	32	32x500	400 GB	No	Unavailable
D14_v2	Standard	Memory optimized	16	112	64	64x500	800 GB	No	Unavailable
D15_v2	Standard	Memory optimized	20	140	64	64x500	1000 GB	No	Unavailable
D16_v3	Standard	General purpose	16	64	32	32x500	400 GB	No	Unavailable
D16s_v3	Standard	General purpose	16	64	32	25600	128 GB	Yes	Unavailable
D2_v2	Standard	General purpose	2	7	8	8x500	100 GB	No	Unavailable
D2_v3	Standard	General purpose	2	8	4	4x500	50 GB	No	Unavailable
D2s_v3	Standard	General purpose	2	8	4	3200	16 GB	Yes	Unavailable
D3_v2	Standard	General purpose	4	14	16	16x500	200 GB	No	Unavailable
D32_v3	Standard	General purpose	32	128	32	32x500	800 GB	No	Unavailable
D32s_v3	Standard	General purpose	32	128	32	51200	256 GB	Yes	Unavailable
D4_v2	Standard	General purpose	8	28	32	32x500	400 GB	No	Unavailable
D4_v3	Standard	General purpose	4	16	8	8x500	100 GB	No	Unavailable
D4s_v3	Standard	General purpose	4	16	8	6400	32 GB	Yes	Unavailable
D5_v2	Standard	General purpose	16	56	64	64x500	800 GB	No	Unavailable

Figure 5: Choose virtual machine size

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

Create a virtual machine

Basics | **Disks** | Networking | Management | Advanced | Tags | Review + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

DISK OPTIONS

* OS disk type: Standard HDD

Enable Ultra SSD compatibility (Preview): Yes No
Ultra SSD disks are only available when using Managed Disks.

DATA DISKS

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

ADVANCED

Use managed disks: No Yes

* Storage account: impetuspocanubhavrgdisks

Figure 6: Choose disk type and storage account for your virtual machine

Now you can define network configurations for your virtual machine as shown in Figure 7. Click 'Next'.

Create a virtual machine

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Advanced](#) [Tags](#) [Review + create](#)

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. [Learn more](#)

NETWORK INTERFACE

When creating a virtual machine, a network interface will be created for you.

CONFIGURE VIRTUAL NETWORKS

* Virtual network ⓘ [Create new](#)

* Subnet ⓘ [Manage subnet configuration](#)

Public IP ⓘ [Create new](#)

NIC network security group ⓘ None Basic Advanced

ⓘ This VM image has preconfigured NSG rules

* Configure network security group [Create new](#)

Accelerated networking ⓘ On Off The selected image does not support accelerated networking.

LOAD BALANCING

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)

Place this virtual machine behind an existing load balancing solution? Yes No

[Review + create](#) [Previous](#) [Next : Management >](#)

Figure 7: Configure the networking interface for your virtual machine

You need to configure monitoring and management options for your virtual machine. Click 'Next'.

Create a virtual machine

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Advanced](#) [Tags](#) [Review + create](#)

Configure monitoring and management options for your VM.

AZURE SECURITY CENTER

Azure Security Center provides unified security management and advanced threat protection across hybrid cloud workloads.
[Learn more](#)

Your subscription is protected by Azure Security Center basic plan.

MONITORING

Boot diagnostics On Off

OS guest diagnostics On Off

* Diagnostics storage account [Create new](#)

IDENTITY

System assigned managed identity On Off

AUTO-SHUTDOWN

Enable auto-shutdown On Off

[Review + create](#) [Previous](#) [Next : Advanced >](#)

Figure 8: Configure monitoring and management options for your VM

Optionally, you can create tags to categorize multiple resources/resource groups. Click 'Next'.

Create a virtual machine

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Advanced](#) **Tags** [Review + create](#)

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

NAME	VALUE	RESOURCE
<input type="text"/>	:	<input type="text"/> 11 selected

[Review + create](#) [Previous](#) [Next : Review + create >](#)

Figure 9: Provide tags for your virtual machine

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

Create a virtual machine

✓ Validation passed

Basics
Disks
Networking
Management
Advanced
Tags
Review + create

PRODUCT DETAILS

Intellicus BI Server V18.1 (5 Users - Linux) | Pricing not available for this offering
 by Intellicus Technologies
[Terms of use](#) | [Privacy policy](#)

Standard D2 v3 | Pricing not available for this offering
 by Microsoft
[Terms of use](#) | [Privacy policy](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; and (b) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

BASICS

Subscription	Impetus-POC
Resource group	Impetus-POC-Anubhav-RG
Virtual machine name	Intelli-Usr5LX3
Region	Central India
Availability options	No infrastructure redundancy required
Authentication type	Password
Username	anubhav

DISKS

OS disk type	Standard HDD
Use managed disks	No
Storage account	impetuspocanubhavrgdisks

NETWORKING

Virtual network	Impetus-POC-Anubhav-RG-vnet
-----------------	-----------------------------

Create

Previous

Next

Download a template for automation

Figure 10: Summary preview of virtual machine

The deployment progress screen appears as below:

Figure 11: VM Deployment Status Screen

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

Figure 12: 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
```

```
sudo ./intellicus.sh start
```

```
/home/Intellicus
[Intellicus@Intelli-Usr10LX4 ~]$ cd /opt/Intellicus/
[Intellicus@Intelli-Usr10LX4 Intellicus]$ ls
Acknowledgements  docs          jakarta      reportengine  SampleCodes
APIs              intellicus.sh jre          reportserver.sh webserver.sh
[Intellicus@Intelli-Usr10LX4 Intellicus]$ sudo ./intellicus.sh status
[sudo] password for Intellicus:
iEngine (pid 4772) is running...
java (pid 4682) is running...
[Intellicus@Intelli-Usr10LX4 Intellicus]$ sudo ./intellicus.sh stop
*****Using class Path *****
.
Using CATALINA_BASE:   /opt/Intellicus/jakarta
Using CATALINA_HOME:   /opt/Intellicus/jakarta
Using CATALINA_TMPDIR: /opt/Intellicus/jakarta/temp
Using JRE_HOME:        ../../jre
Using CLASSPATH:       /opt/Intellicus/jakarta/bin/bootstrap.jar:/opt/Intellicus
/jakarta/bin/tomcat-juli.jar
[Intellicus@Intelli-Usr10LX4 Intellicus]$
[Intellicus@Intelli-Usr10LX4 Intellicus]$ ls
Acknowledgements  docs          jakarta      reportengine  SampleCodes
APIs              intellicus.sh jre          reportserver.sh webserver.sh
[Intellicus@Intelli-Usr10LX4 Intellicus]$ sudo ./intellicus.sh start
```

Figure 13: Starting Intellicus

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

```
sudo ./intellicus.sh status
```

```
Warning: Usage of a local non-builtin name
Warning: Text on sheet "Base" not supported - omitting
Loading ResourceBundles...Done
Reading .ict files.....
..Done
Loading Calendars..... Done
Starting report server in listener mode....Done
Enabling scheduler...Done
Intellicus Report Server 64 bit Enterprise Edition 18.1.35b is up and running in
Production mode.

Caching Database Metadata for Designer SQL Editors (Designers should wait)...
  DEMOWEBSERVICE: Caching...Failed ! Connection in invalid state * * *
  DEMOREPOSITORYDB: Caching.....Done
  DEMOREPORTDB: Caching.....Done
Designers can start now.

[Intellicus@Intelli-Usr10LX4 Intellicus]$ sudo ./intellicus.sh status
iEngine (pid 6055) is running...
java (pid 6095) is running...
[Intellicus@Intelli-Usr10LX4 Intellicus]$
```

Figure 14: 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:

sudo ./intellicus.sh stop

```
Caching Database Metadata for Designer SQL Editors (Designers should wait)...
  DEMOWEBSERVICE: Caching...Failed ! Connection in invalid state * * *
  DEMOREPOSITORYDB: Caching.....Done
  DEMOREPORTDB: Caching.....Done
Designers can start now.

[Intellicus@Intelli-Usr10LX4 Intellicus]$ sudo ./intellicus.sh status
iEngine (pid 6055) is running...
java (pid 6095) is running...
[Intellicus@Intelli-Usr10LX4 Intellicus]$ sudo ./intellicus.sh stop
*****Using class Path *****
.
Using CATALINA_BASE:   /opt/Intellicus/jakarta
Using CATALINA_HOME:   /opt/Intellicus/jakarta
Using CATALINA_TMPDIR: /opt/Intellicus/jakarta/temp
Using JRE_HOME:        ../../jre
Using CLASSPATH:       /opt/Intellicus/jakarta/bin/bootstrap.jar:/opt/Intellicus
/jakarta/bin/tomcat-juli.jar
Got shutdown request...
Got shutdown request...
[Intellicus@Intelli-Usr10LX4 Intellicus]$ Exit code 0
```

Figure 15: 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 (on premise or on cloud).

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.

Running Intellicus from VM Machine

Intellicus application service starts automatically once VM machine is initiated. You can start browsing Intellicus as per instructions mentioned above. The default installed location of Intellicus is '/opt/Intellicus'.

Intellicus URL Password

The below screen will be displayed on clicking the Intellicus URL.



Figure 16: Change 'Admin' Password Screen

You need to set the default password for 'Admin' user (mandatory step) in order to proceed further.

After changing the default password for 'Admin', below login screen will be displayed:



Figure 17: Intellicus login page

Now, login onto Intellicus application using 'Admin' user and with the password you have set (as per Figure 17).

The default Organization will be set as 'Intellica' for 'Admin' User.

NOTE: Click "More Option" if you wish to select any organization other than the default. But for first time user, an 'Intellica' can be chosen as default organization.

To explore and evaluate all the features of Intellicus, login using 'Admin' user and 'Intellica' Organization. The above screen enables you to login to the application.

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.

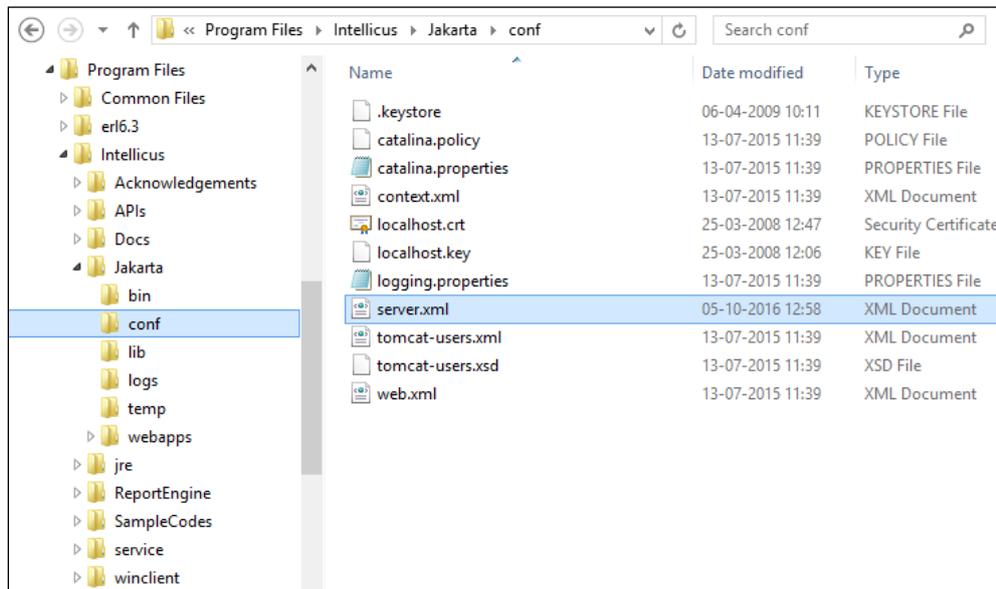


Figure 18: Location of server.xml

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.

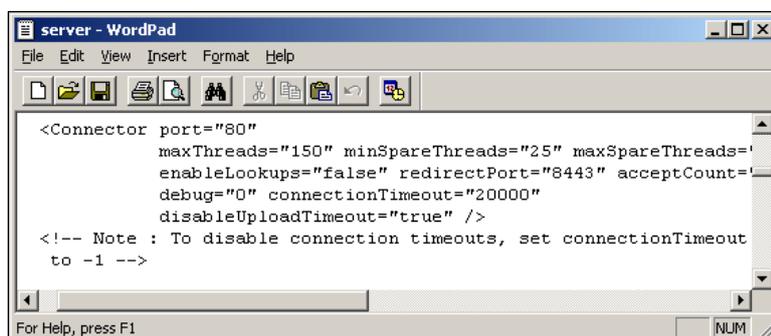


Figure 19: Changing the port number

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:

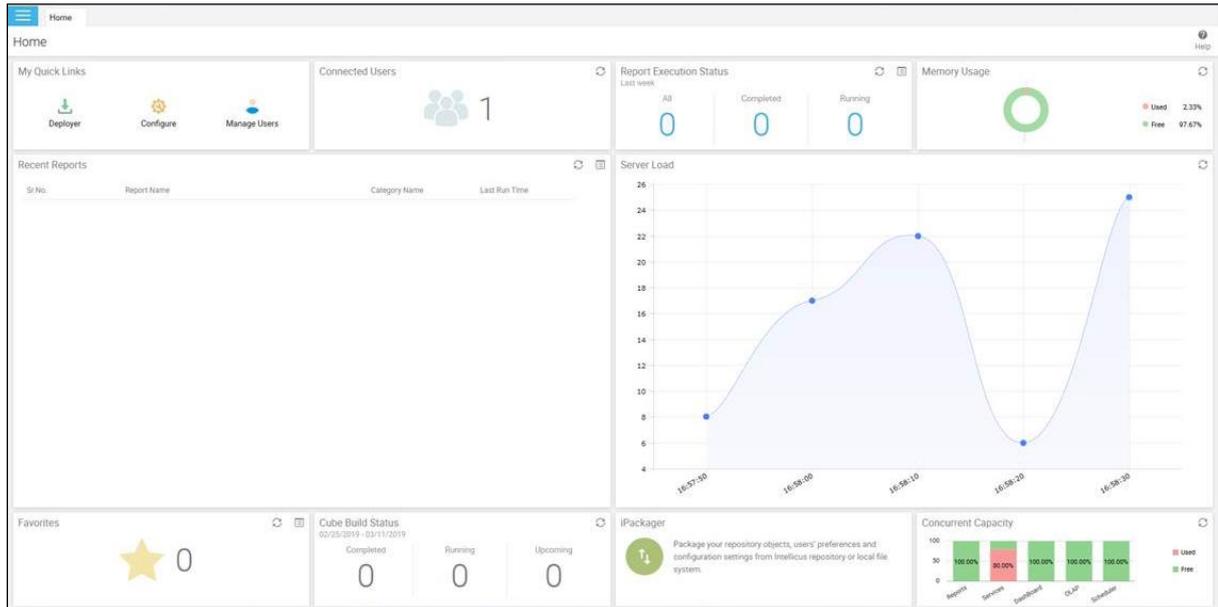


Figure 20: Home page for the Admin user

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.

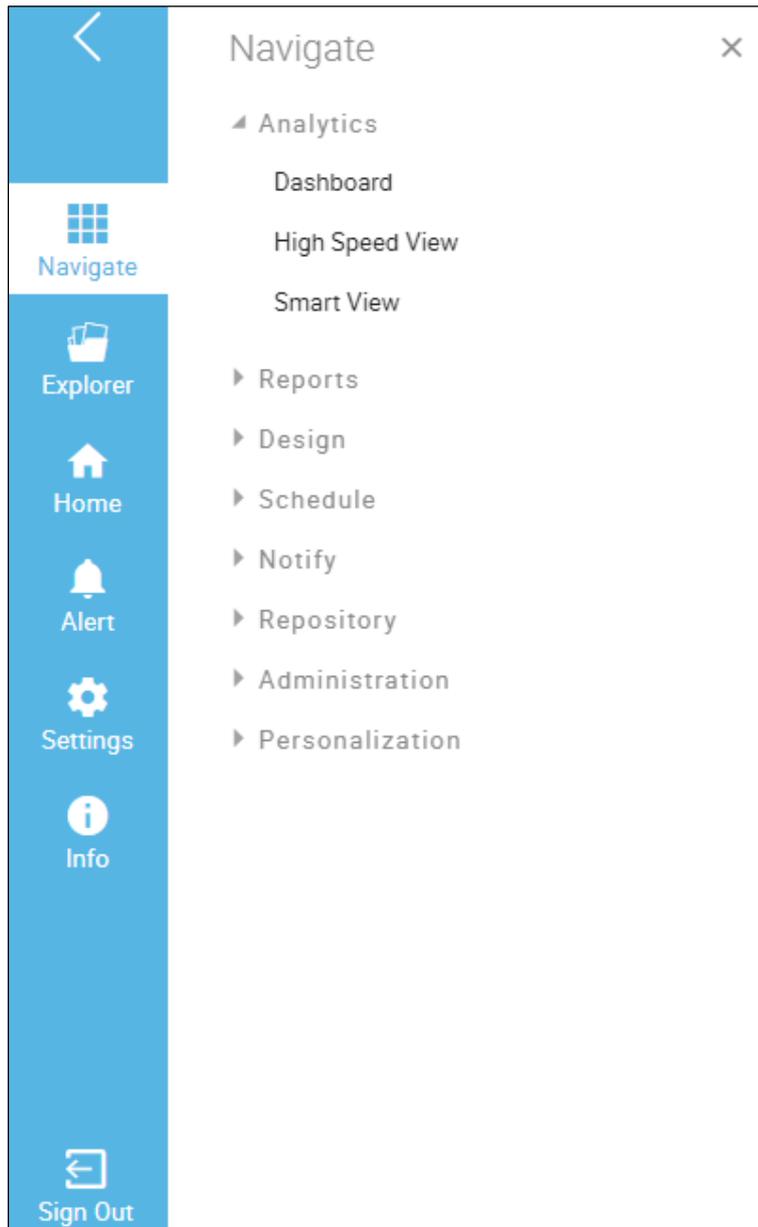


Figure 21: Intellicus Menu

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*](#)

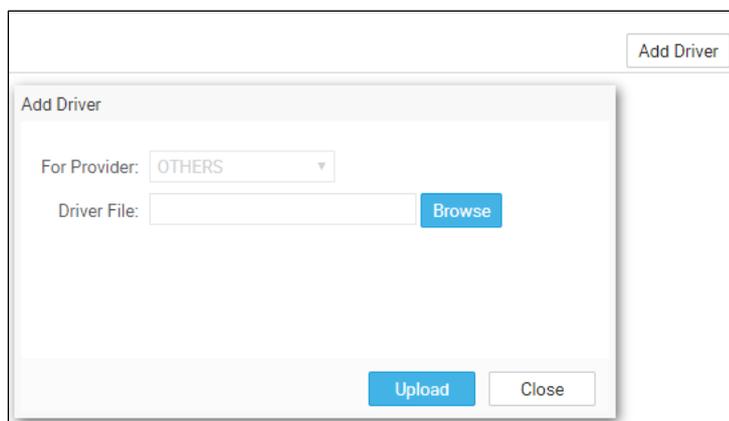


Figure 22: Add Driver

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 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 23.

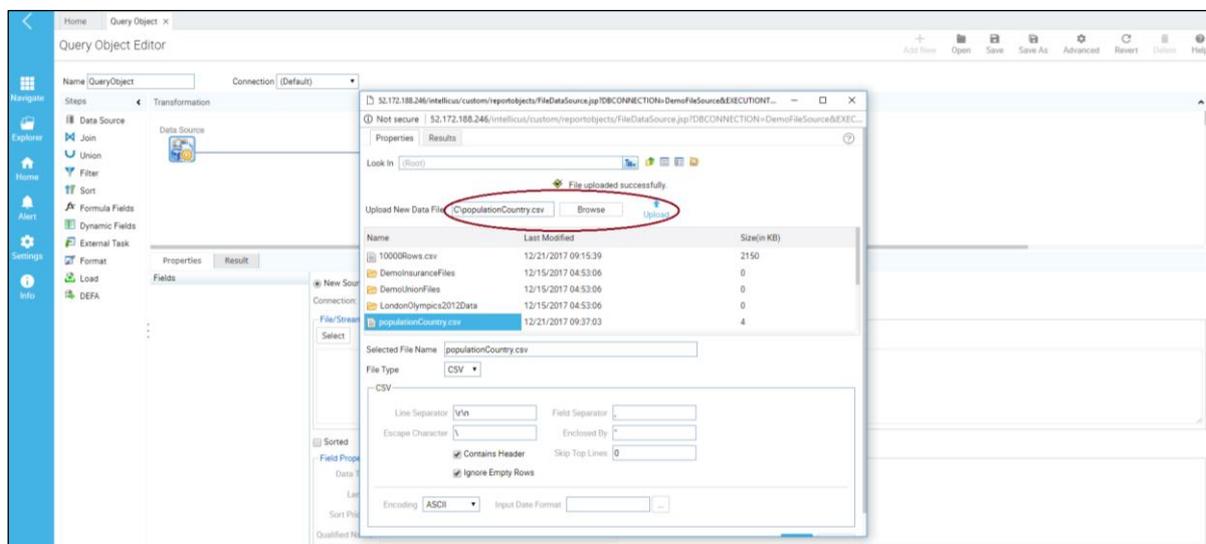


Figure 23: Upload CSV File in Intellicus

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 several 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.

(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.

You need to use Intellicus Studio to design and deploy standard reports. In Windows, click Windows Start > All apps > Intellicus > Studio to start the Studio application.

(For details, refer [DesktopStudio-ATour.pdf](#))

Data Science in Intellicus: Intellicus provides a seamless connection to different data science environments with access to all the available libraries to fulfill your Data Science requirements.

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

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 24. 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).

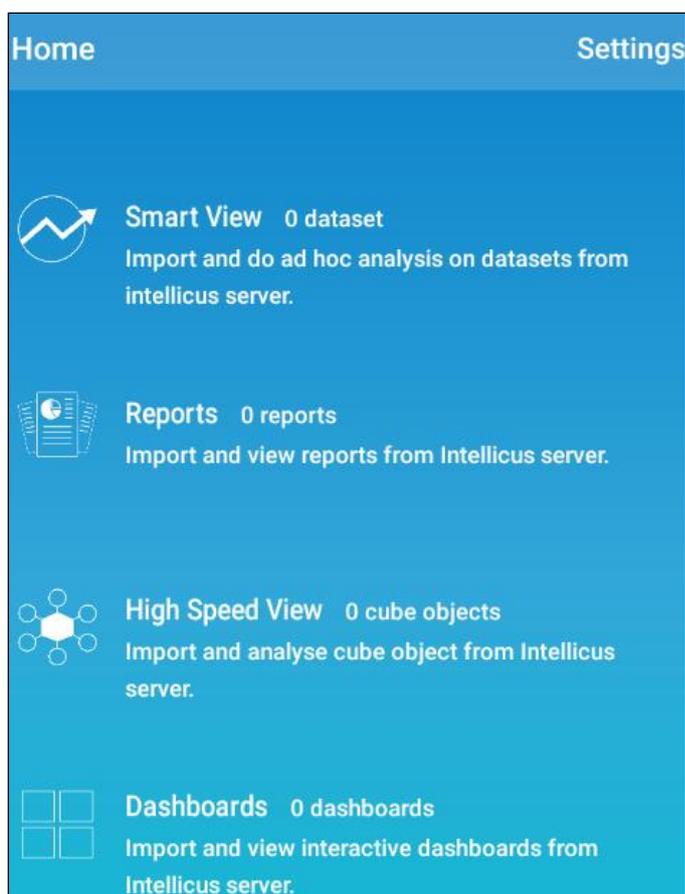


Figure 24: Home page of Intellicus Mobile

- 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 25.

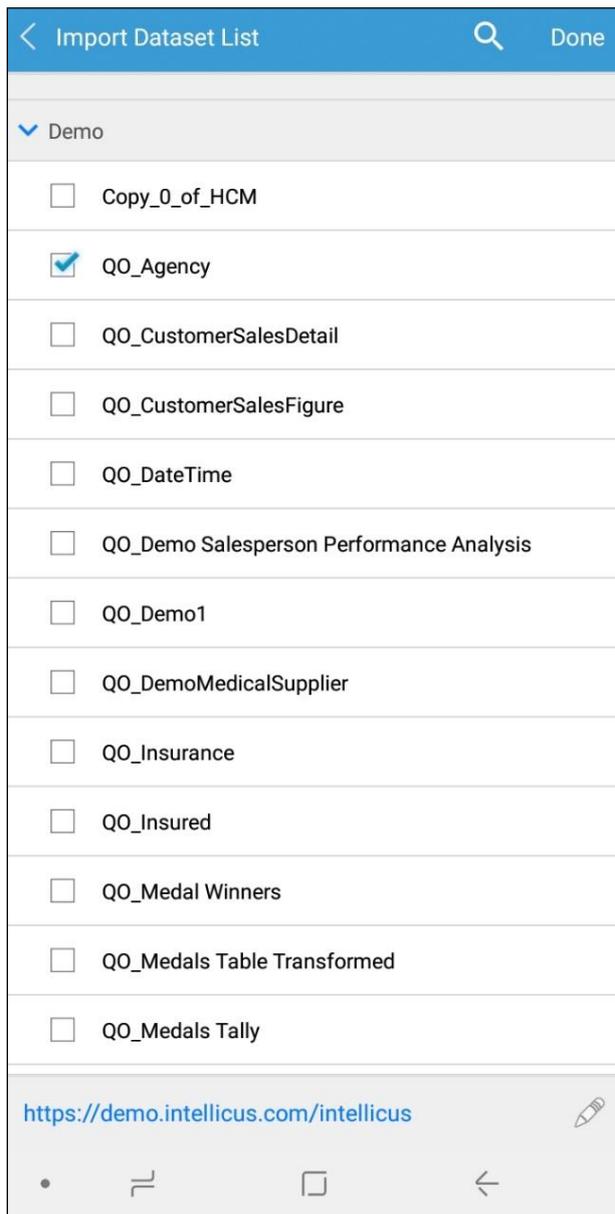


Figure 25: Import Dataset in Smart View

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.

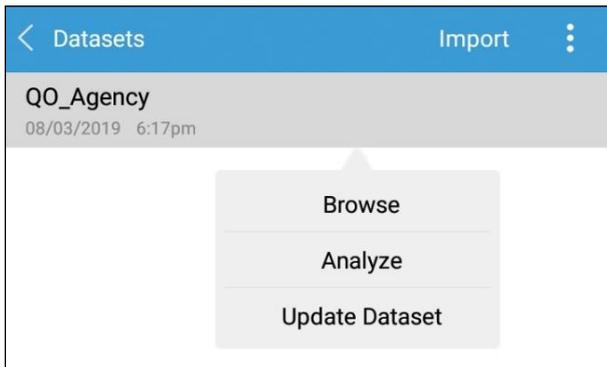


Figure 26: Actions on Dataset

Tap “Browse”. The data in the grid appears as shown in Figure 27.

Age...	Agency Name	Agenc...	Industr...	Insura
0	Others	Others	Others	Other
312	Chubb & Son	Public	Insura...	Comr
310	Cumberland Mutual Fi...	Subsid...	Insura...	Identi
313	Firemans Fund	Subsid...	Insura...	Persc
353	St. Paul Travelers Insu...	Public	Insura...	Risk i
363	Selective Insurance C...	Public	Proper...	Flood
359	Zurich American	Private	Financi...	Life a
314	Fitchburg Mutual	Public	Financi...	Fire a
311	Parkway Insurance	Subsid...	Insura...	Auto
361	Philadelphia Contribut...	Public	Insura...	Home

Figure 27: Grid visualization on Smart View

7. Tap the gear button  at the bottom of the screen (Figure 27) 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.

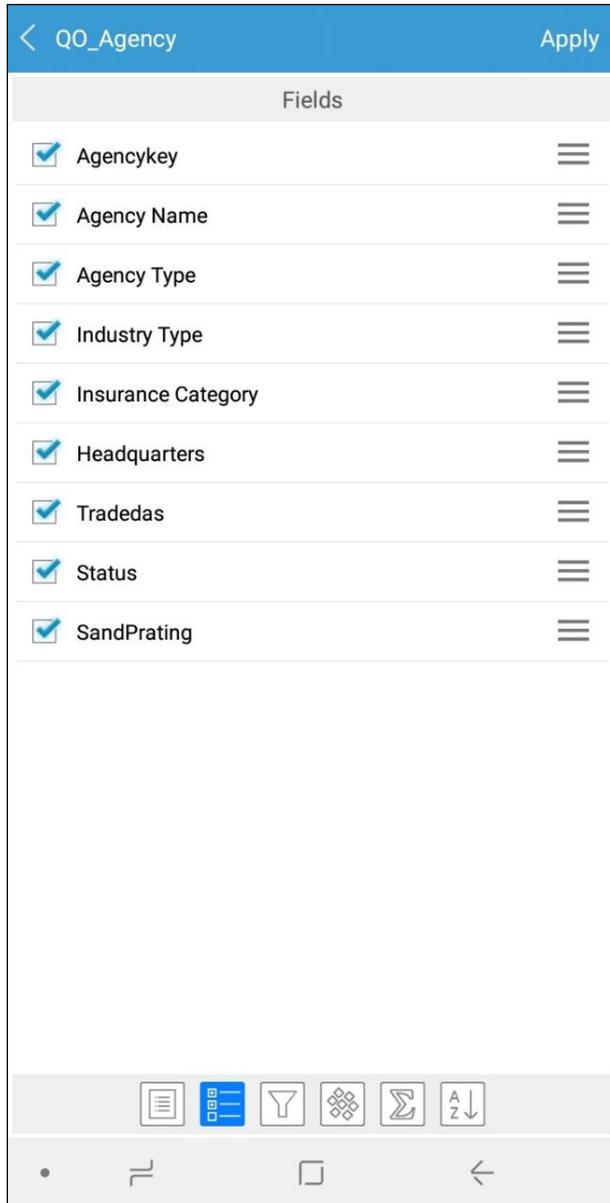


Figure 28: Grid operations on Smart View

8. You can also analyze your data in the form of charts by tapping the “Analyze” option on Figure 26. Intellicus enables to choose from a wide variety of charts to build visually rich reports on your mobile device.

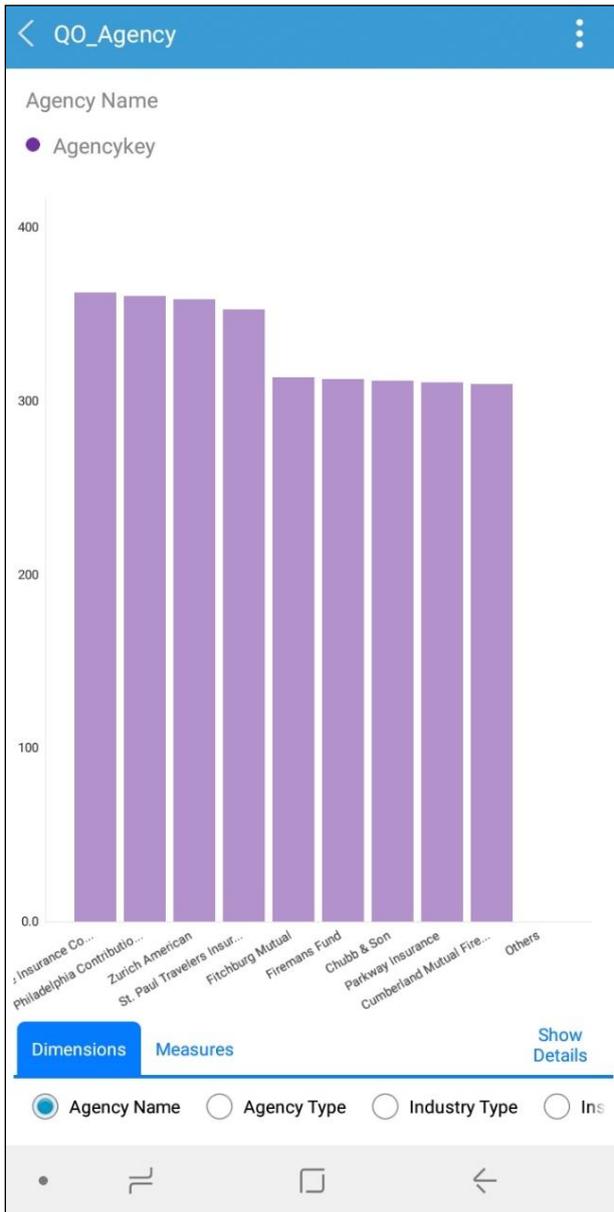


Figure 29: Chart visualization on Smart View

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.

9. Tapping “Update Dataset” on Figure 26 fetches the recent dataset from the server.
10. 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.

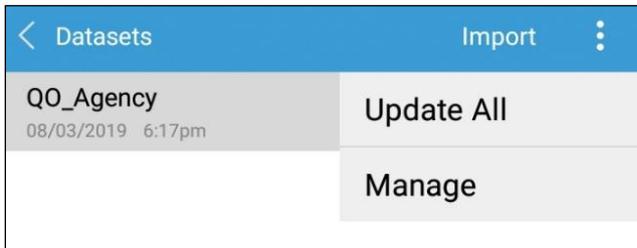


Figure 30: Operations on Dataset listing

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 31.

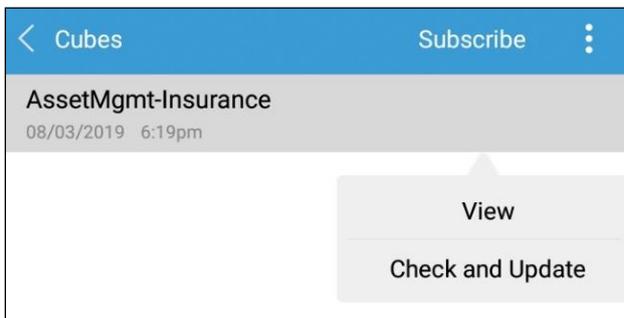


Figure 31: Cube Objects' operations

On viewing the cube object, you see the measures and dimensions on the High Speed View as shown in Figure 32.

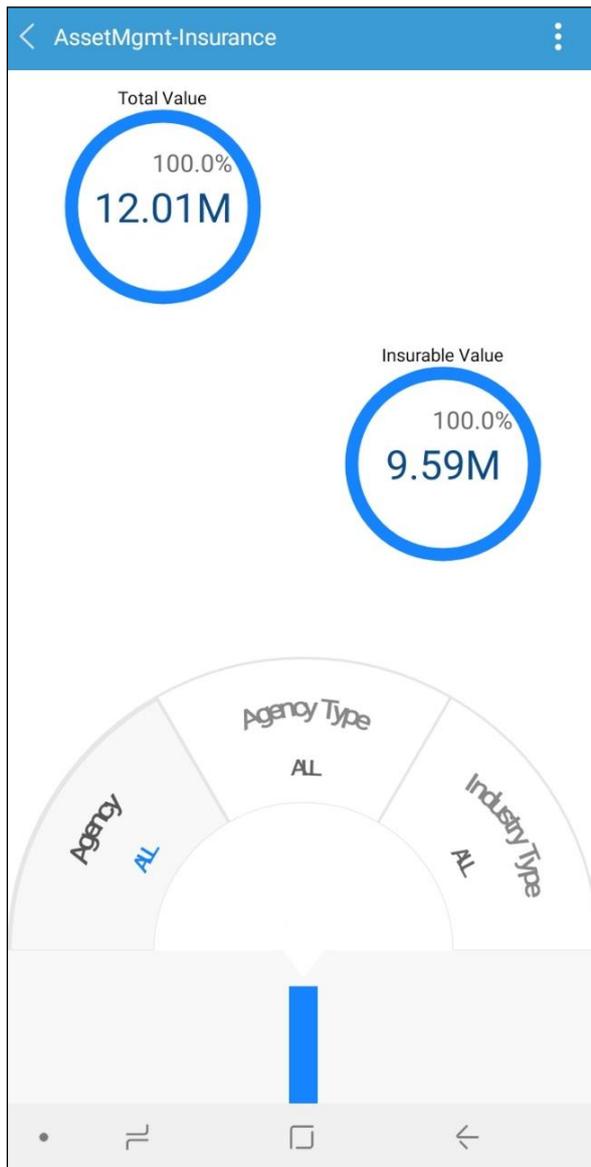


Figure 32: High Speed View

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 33.

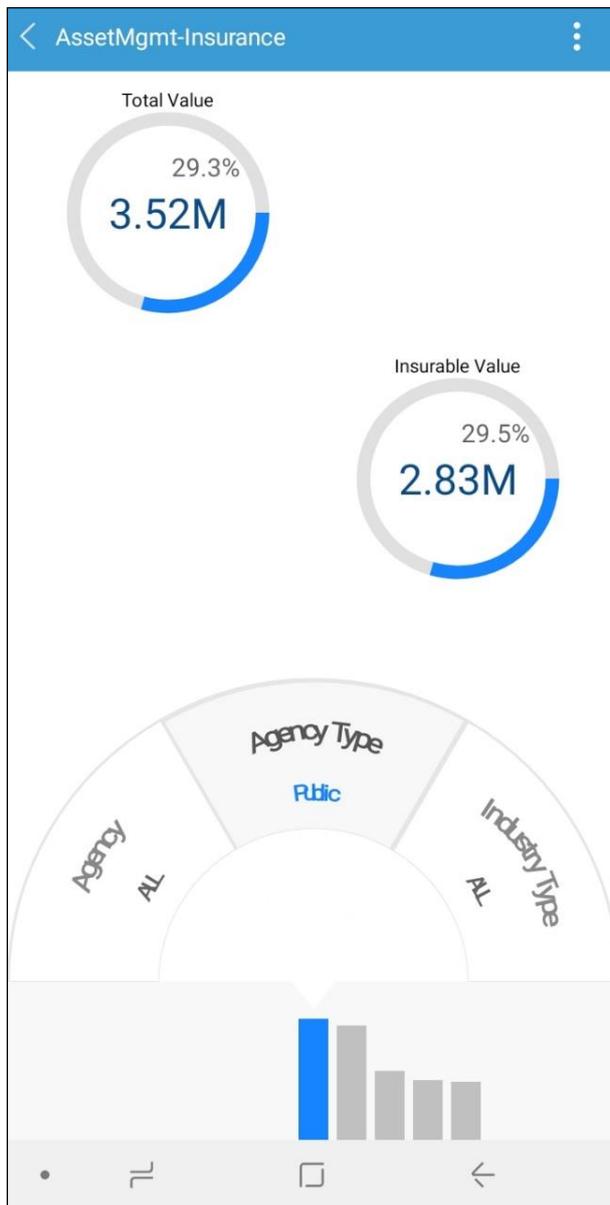


Figure 33: Specific Dimension selected on High Speed View

Tapping “Check and Update” on Figure 31 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.

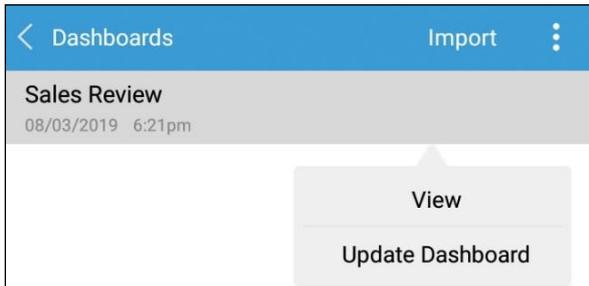


Figure 34: View Dashboard on mobile device

The dashboard appears as shown in Figure 35. The widgets can be scrolled up and down using the arrows.

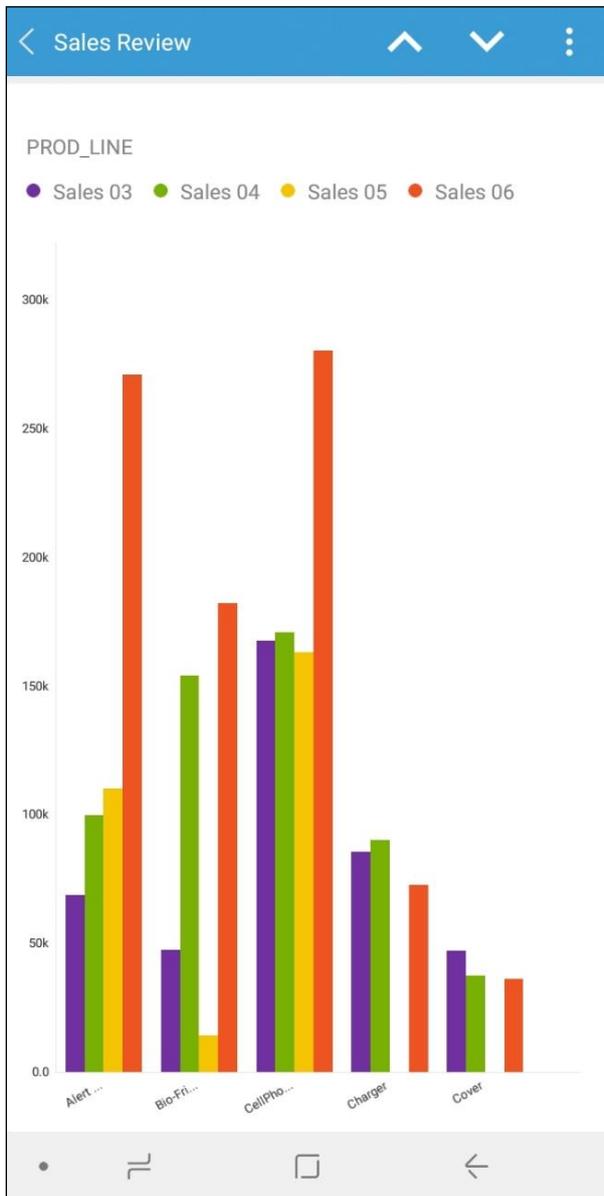


Figure 35: Dashboard on mobile device

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.

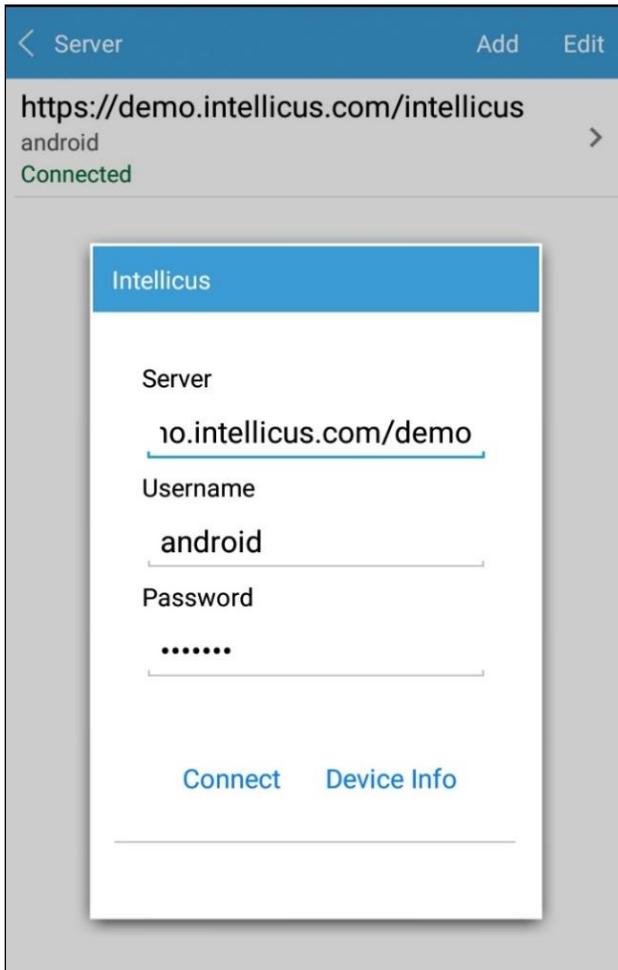


Figure 36: Server Settings

16. To set a default server, in settings tap “Default Server” so as whenever you import or subscribe reports, dashboards, datasets, and/or cube objects, by default the data is displayed as on this server.
17. With the “Security” option on “Settings” page, you can do the following:
Enable Passcode: By enabling passcode, every time you open the Intellicus application on mobile, you are prompted to enter a passcode to be able to view the content inside the application. If you want to secure who access Intellicus application on your device, keep this as On.
18. “Reports” option on “Settings” page
In Standard reports, you can view saved snapshots (published instance of report). Here you can set the maximum number of snapshots you want your mobile device to hold. The minimum being 1, the maximum that can be saved is 10.
19. “Auto Update” option on “Settings” page
Auto Update setting allows you to update data automatically every time:

- You open a report or a dashboard to view: To allow your report or dashboard to update with the latest dataset from the Intellicus server every time you open them, set On View Report/ Dashboard to On.
- You change a parameter in your report or dashboard: To allow your reports or dashboards to update every time you make a change in parameter, set On Parameter Change to On.

20. “Device Information” on “Settings” page

This setting displays the Unique Id of the mobile device. This id acts as an identification of the device on Intellicus web server.

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/18.1/>

Upgrading Database Repository

All the Intellicus objects are stored in database repository (Oracle, MS SQL, MySQL or many more). If your reports objects are stored in such a repository, you can simply point to your database repository in new Intellicus version. Intellicus application will automatically upgrade these objects during Report Engine boot-up.

Note: Please take backup of repository database before performing this step.

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.