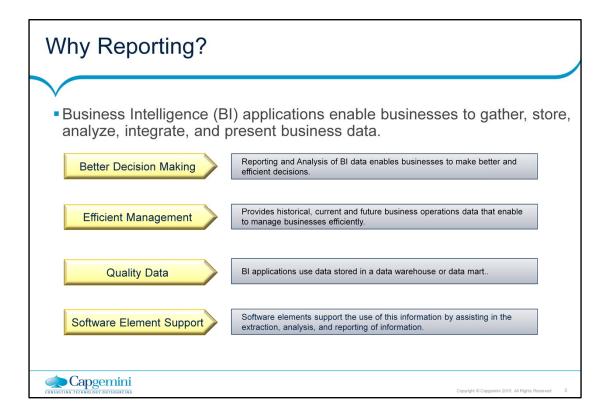
Cognos 11

Lesson 01: Introduction to Cognos

Module Objectives:

- 1. Why Reporting?
- 2. Why Cognos Analytics?
- 3. Cognos 8/10 and 11 Comparison
- 4. Cognos Analytics Self Service capability
- 5. Cognos Analytics Three tier Architecture
- 6. User Interfaces
- 7. Web-based User Interfaces
- 8. Tier 1 Web Server: Cognos Analytics Gateways
- 9. Tier 2 Application: Cognos Analytics Servers
- 10. Tier 3 Data: Content Providers
- 11. Accessing Cognos Analytics



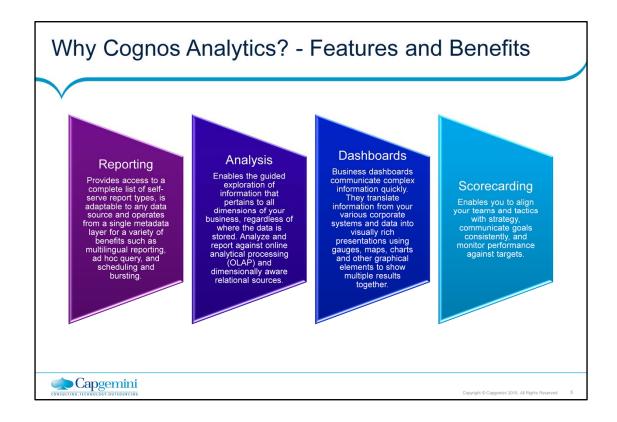


Why Cognos Analytics?

Introduction

- IBM Cognos Analytics is a complete enterprise business intelligence solution with a range of BI capabilities.
- Enables users to author, share, and use reports that retrieve data from all enterprise sources which helps to take efficient business decisions
- Use reports, analysis, dashboards and scorecards to monitor business performance, analyze trends and measure results.
- Easy to deploy and manage due to a Service Oriented Architecture (SOA).
- Scalability to handle a large number of users.
- Modular deployment enables you to meet immediate user requirements and expand or modify as needed.





Cognos Analytics Self Service capability

- Basic data modeling, coupled with an updated look and feel
- Create an attractive dashboard in minutes
- As data is dragged onto the canvas, Cognos selects a visualization to best represent it
- Automatically linking of a filter across the object
- The graphs and tables are laid out on a choice of grids which enhances the visual appeal without any additional effort by users

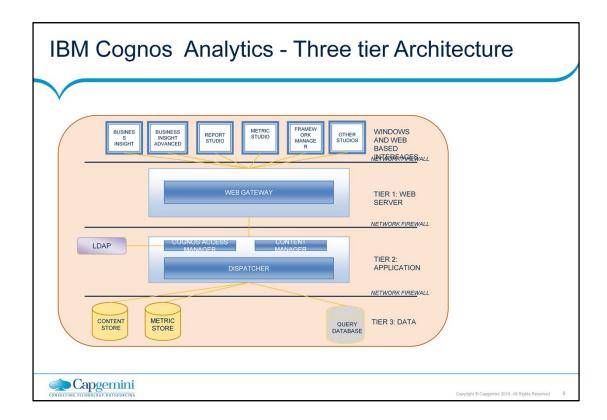


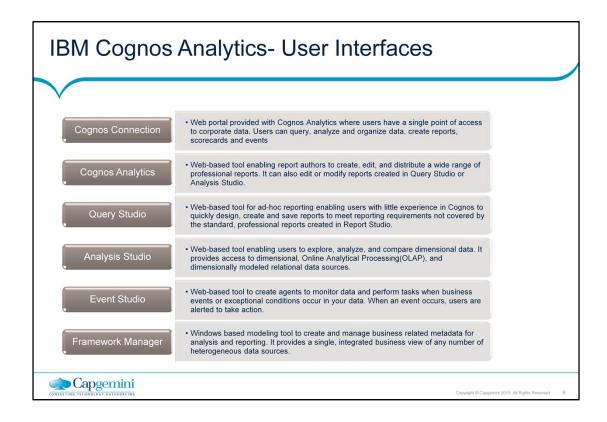
Cognos Analytics - Three tier Architecture

The Cognos Analytics BI architecture consists of the following features:

- Single, open Application Program Interface (API) founded on SOAP and XML.
- Enables integration with Microsoft Office, Business Performance Management (BPM) solutions, enterprise search capabilities, and other applications.
- Consistent, zero foot print web based user interface.
- Supports leading Relational Databases as well as OLAP.
- Ensures dynamic load balancing.
- Cognos can be customized and is compatible with third party product.
- Supports multilingual reporting.







IBM Cognos Analytics BI Architecture



Data Tier

- Tier 1: Web Server & Gateways
- Tier 1 consists of a Web Server and Gateways through which provides the user session connectivity with various BI applications.
 - Gateway: It is an extension of the Web Server program that transfers information from one server to another.
- Web communication in Cognos Analytics occurs through Gateways, which resides on one or more Web Servers.
- The following functionality occurs when Cognos Analytics gateway receives a request:
 - Encrypts passwords to ensure security.
 - Extracts information required to submit the request to a Cognos Analytics server and attaches environment variables for the Web server.
 - Adds a default namespace to the request to ensure that the server authenticates the user in the current namespace.
 - Transfers requests to a Cognos Analytics dispatcher for processing.
- Cognos Analytics supports CGI, ISAPI, Apache_Mod and Servlets as gateways.



IBM Cognos Analytics BI Architecture



Tier 2: Cognos Application Servers

- Tier 2 consists of various components, such as, a Dispatcher, Content manager and Services.
 - The Cognos Analytics Applications tier can be configured on one or more Cognos Analytics Servers. A Cognos Analytics Server runs requests, such as reports, data analysis and queries that are received through a gateway. A Cognos Analytics server also renders the Cognos Connection and Metric Studio interfaces.
- Each Cognos Analytics Application Tier includes the following:
- Dispatcher that performs load balancing of requests at the application tier. It is a light weight java servlet that managers application services.
- Report Server consists of the report or query service which is mainly responsible for application tier processing.
- Content Manager which manages storage of the application data such as packages, report specification, dashboards, server configuration settings, security settings and configuration, metrics and report output



IBM Cognos Analytics BI Architecture



Tier 3: Data Tier

- Tier 3 consists of Content store, Data sources and Metric store
 - Content store: A relational database that stores data required by Cognos Analytics to operate, such as, report specifications, published models, and packages that contain them; connection information for data sources; information about the external namespace, and the Cognos namespace itself; and information about scheduling and bursting reports.
 - Data sources: These are relational databases, dimensional cubes, files, or other physical data stores that can be accessed through Cognos Analytics. Application Tier Components use data source connections to access data sources.
 - Metric store: A Relational database that contains content for metric packages. A metric store also contains Metric Studio settings, such as user preferences.



