

# BSA Best Practices Webinar Reporting (BDSSA)

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- ▶ Overview
- ▶ Basics
- ▶ Intermediate
- ▶ Building Your Own Reports
  - Query Studio
  - Reports Studio
- ▶ Advanced
- ▶ Sizing

# Overview



- ▶ What is Reporting, how is it different from "core" BSA
- ▶ What does it do?
  - Information over time
  - Roll up large amounts of data
- ▶ What does it not do
  - Live Browse
  - Run Jobs
- ▶ Reporting answers questions:
  - what do I have,
  - how much,
  - how often,
  - how productive,
  - how compliant

- ▶ What's ETL, what's the practical effect of it here?
  - Acronym: Extract, Transform, Load
  - Moves latest information from BSA to BDSSA data warehouse
  - Can keep more data than might be practical in BSA
  
- ▶ How does it basically work?
  - Data warehouse,
  - populated via ETL process from BSA
  - Reporting Portal uses data warehouse

# BMC Server Automation (BladeLogic) Client Access With NSH Proxy



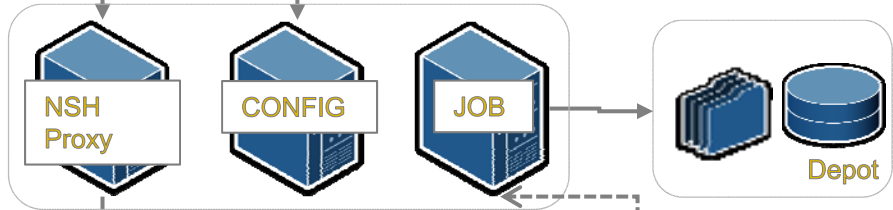
CONSOLE

### Management Consoles

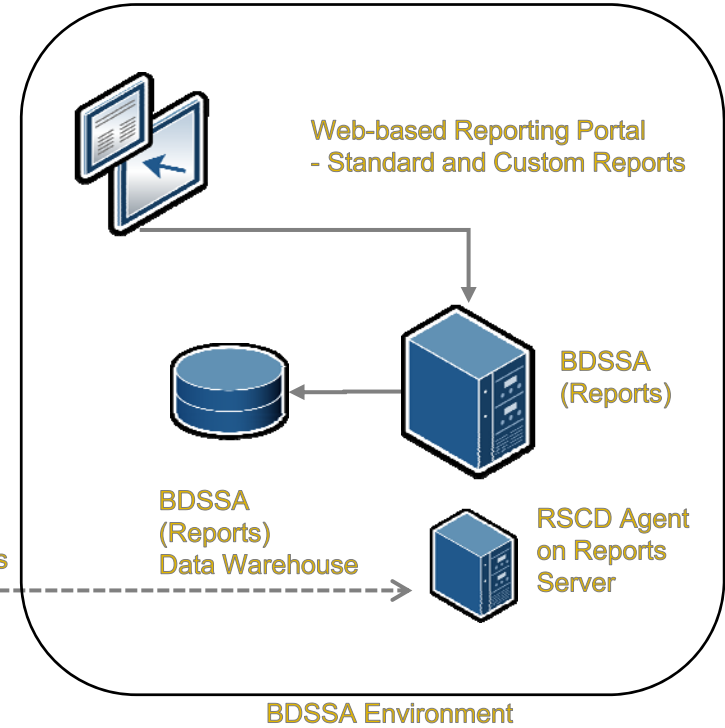
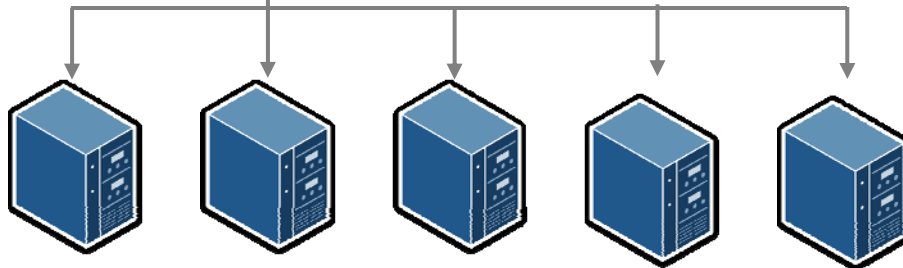
- Graphical Interface
- Command Line Interface (NSH & BLCLI)
- Authentication,



MID TIER



NODES



# Basics



- ▶ Exec dashboards
- ▶ Dashboards vs detailed reports
- ▶ How to use basic filters, time filters, filter for 1 day in the future
- ▶ KPI Reports (???)



- ▶ Data warehouse
- ▶ Portal install
- ▶ First ETL Job
- ▶ Inventory:
  - Loading Inventory Template Content
  - Discovery & Snapshot
- ▶ How often to snapshot & tradeoffs
- ▶ Basic commonly used Job & RBAC Reports: what questions do they answer?

# Intermediate



- ▶ Scheduling:
  - Setting up scheduled reports to run every week
  - Sending results to email vs. waiting to run
  - Scheduling reports to run off-hours & then viewing saved results
- ▶ RBAC & Reports: can't report on what you can't see
- ▶ Dedicated query studio / reports studio roles to conserve licenses

- ▶ GlobalReportAdmins & GlobalReportsViewers roles
- ▶ Stopping ETL
  - All scripts need to be run from the scripting directory: /opt/bmc/
  - nsh stop\_etl.nsh -s <site\_id> -v <om version>
  - Doesn't necessarily stop immediately
- ▶ ETL different sub-scenarios to just move one data domain over
  - RBAC
  - Inventory

- ▶ Basic hardware inventory report
- ▶ Basic licensing report (Oracle/IBM: server/ip/cpu sockets, cores, speeds)
- ▶ Inventory Report showing a server property (ENVIRONMENT, PHYSICAL\_LOCATION)

- ▶ Advanced reporting
- ▶ Customize logo (???)
- ▶ Customize colors (???)
- ▶ SQL Query or multi-domain?
- ▶ Multiple reportlets in one report?

# Advanced Topics



- ▶ **blrptadmin.nsh**
  - typical command line arguments
  - 1-2 common tasks: define new site
  - gencred
  
- ▶ **Metadata Navigator**
  - <https://myreportserver:9300/oracledimn>
  - See (very) detailed info about ETL runs



- ▶ Exporting reports to a local filesystem from a command line
  - For shared portal independent of BDSSA
  - Can be called from NSH Script
- ▶ <https://communities.bmc.com/message/319038>

- ▶ Impact of DB cleanup: run ETL first!
- ▶ How does Cleanup affect ETL-able data?
- ▶ Data, once populated to BDSSA Data Warehouse can be cleaned up

- ▶ Filter on properties: ??CUSTOMER??
- ▶ Avoid custom reports for every customer: Re-use OOTB Reports w/ filters
- ▶ Re-brand for your largest customers
- ▶ Licensing:
  - 1 user per customer or automated exports?
  - Power users?
- ▶ At least one Reports Studio-capable user is important

- ▶ Caveats about data link requirements
- ▶ Wide area bandwidth
- ▶ Role mapping: using same role names

- ▶ Upgrade: runs very fast if you have no data or don't want to keep your data warehouse
- ▶ Cognos upgrade can take relatively long, depending on available DB & reports server performance

- ▶ OOTB RBAC  
Reports: <https://docs.bmc.com/docs/display/public/bdssa83/Built-in+RBAC+reports>
- ▶ [GlobalReportAdmins vs GlobalReportViewers](#)
- ▶ [ODI](#)
- ▶ License Utilization

- ▶ Easy to get lots of data into: make sure you're evaluating for compliance...
- ▶ Be careful of snapshotting fields with dates (that change every time you snapshot them)
- ▶ Be careful of very large EO output (that takes up lots of DB space)

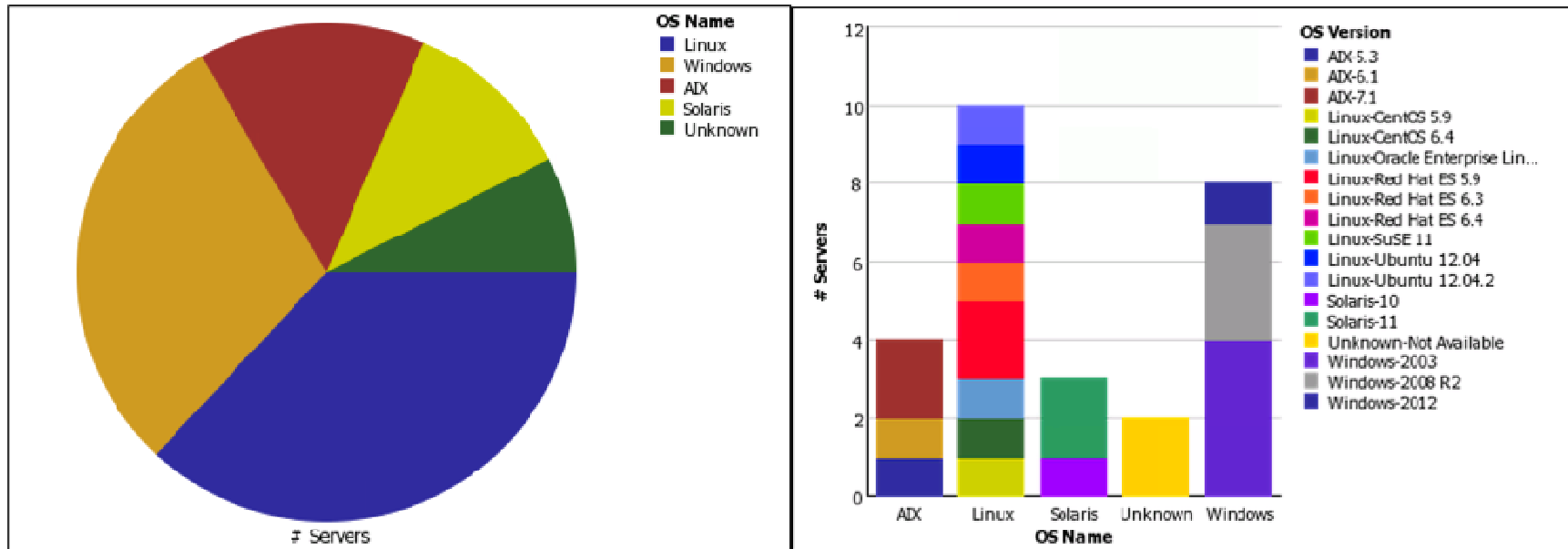
- ▶ BL2Atrium
- ▶ Views!
- ▶ External Access & Supportability



# Typical Inventory Summary Report

## Inventory Summary by OS

Site\User(Role) : Primary\BLAdmin(BLAdmins)



# Sizing



- ▶ **Memory:**
  - 8GB is probably not enough RAM unless you only have one reports user
  - Typical vs max concurrent user count, typical footprint of a cognos process (.5-1GB RAM per running report)
  - We use 32GB RAM on reports for testing, 8-way Xeon DB servers
- ▶ **Disk/Storage:**
  - DB footprint is probably going to be at least 2.5x size of core DB or more (before cleanup)
  - Manage sizing by controlling for the amount of input data
    - Big NSH Script Jobs, big Snapshot jobs, many many runs
- ▶ **Partitioning:**
  - Partitioning / archiving existing info: month or quarter at a time?
  - DB licensing requirements (Oracle EE)

## For More Information



- ▶ BMC Communities BDSSA:  
[https://communities.bmc.com/community/bmcdn/bmc\\_service\\_automation/reports/bsara](https://communities.bmc.com/community/bmcdn/bmc_service_automation/reports/bsara)

# Q&A





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