Power Systems

IBM

IBM i Mobile Access – Manage IBM i on the Go

Wayne Bowers – wbowers@us.ibm.com

IBM

LUG

Power Systems

LUG

IBM

Agenda

- Introduction
- Overview
- Getting Started
- Functional Overview
- Demo

Power Systems

IBM

And Ultimately Changing How Individuals Are Getting Things Done

47% use devices to read and write docs

62% use devices for work related email

41% use devices to access work related apps

Power Systems

IBM

BYOD

- Bring Your Own Device (BYOD)
- Do you use your own personal device for work ?
- Company provide a specific device type for you to use ?
  - A Logicalis research study from Feb 2013 found that almost 75% of users in high-growth markets use personal devices for work
  - The same study finds that in mature developed markets the number of BYOD users to be closer to 44%

"Gartner Predicts by 2017, Half of Employers will Require Employees to Supply Their Own Device for Work Purposes "

4

http://www.gartner.com/newsroom/id/2466615

BYOD Options

- Installed
  - Write custom for each supported mobile device
  - Write once, leverage something like Apache Cordova or PhoneGap to provide the native install
- Not Installed
  - Web Based solution
  - Write once accessible from ANY web enabled mobile device

5

IBM i Mobile Access Overview

6

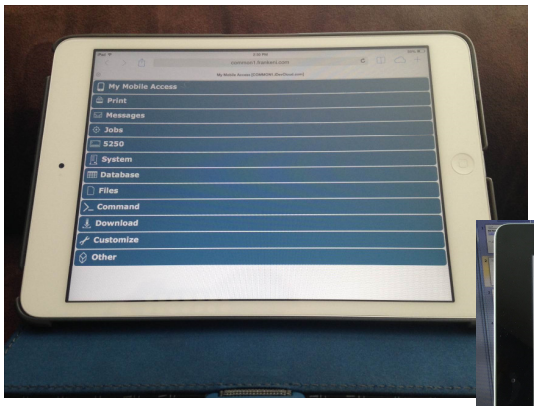
IBM i Mobile Access

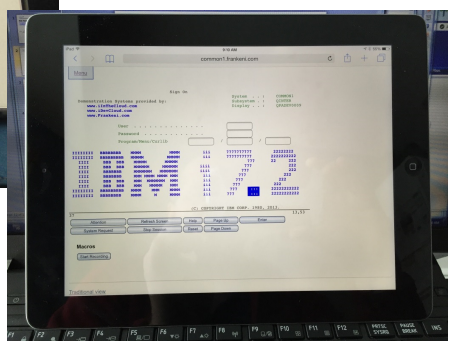
- We have been hearing the need for an IBM i OS management and usage tool that is optimized for a mobile device environment.
  - The IBM Navigator for i interface is optimized for full screen desktop web browsers
  - IBM i Access for Web is also optimized for full screen desktop browsers and has lacked some key management views
  - The last reduced screen footprint solution that IBM i OS had was IBM i Access for Wireless, or Management Central Pervasive
- NOW IBM i Mobile Access!!

7

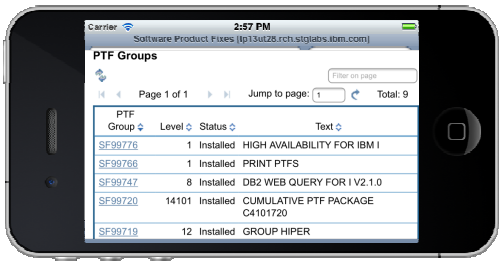
IBM i Mobile Access

- My Mobile Access home page running on an iPad Mini & iPad

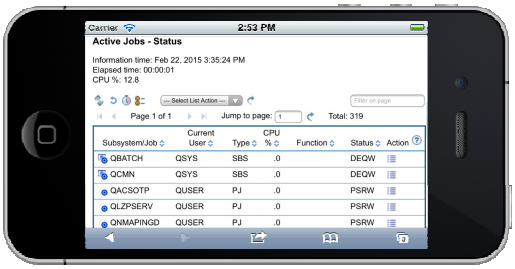


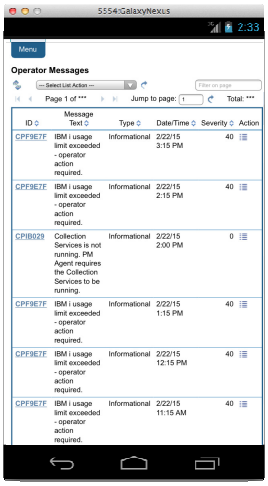


IBM i Mobile Access Screens



iPhone 4





Galaxy Nexus

9

IBM i Mobile Access

- This IBM i Mobile Access Solution is a web browser based solution that has been optimized for reduced screen footprint environments.
- Easy to deploy and get running
- Simple URL to connect to
- Robust IBM i OS system interaction
  - System Management Views
  - Printing, Database, IFS, Commands, Messages
  - 5250 Interface
- Highly Customizable
  - "What the users have access to" can be simply set based on IBM i OS User or Group Profile

10

IBM i Mobile Access: Getting Started

11

Getting Started

- The IBM i Mobile Access Solution Technology Preview is being distributed as part of the r7.2 IBM i Access for Web (5770XH2) product
  - Customers at IBM i OS r7.1 or r6.1 can obtain and run r7.2 IBM i Access for Web
    - For r6.1 order refresh feature 6289 of 5761SS1
    - For r7.1 order refresh feature 6289 of 5770SS1
    - Install r7.2 5770XH2 LPP
      - If already running r6.1 or r7.1 of Access for Web, need to re-run the CFGACCWEB command for those instances
  - The IBM i Mobile Access Technology Preview will be updated via PTFs to Access for Web
    - Requires minimum Tech Preview PTF SI52768 for 5770XH2
    - What you see today is in GA Level PTF SI56123 for 5770XH2 released in May 19, 2015

12

Getting Started

- The IBM i Mobile Access Solution is designed to be integrated into the IBM i OS *ADMIN HTTP Server environment
  - Requires IBM i OS HTTP Server Group PTF to deploy new ADMIN5 job specifically for this solution
    - r7.2 5770DG1 Group SF99713 Level 1
    - r7.1 5770DG1 Group SF99368 Level 27
    - r6.1 5761DG1 Group SF99115 Level 38
  - Started and stopped automatically with the *ADMIN HTTP Server
    - Can be started and stopped individually (r7.1 IBM i OS and later)
      - » STRTCPSVR SERVER(*IAS) INSTANCE(ADMIN5)
      - » ENDTCPSVR SERVER(*IAS) INSTANCE(ADMIN5)
    - ADMIN5 runs on port 2011

13

Getting Started

- Deployed with a simple 2 parameter CL or QShell command
  - CL command in QIWA2 Library
    - CFGACCWEB2 APPSVRTYPE(*INTAPPSVR) INSTANCE(*MOBILE)
  - QShell command in /QIBM/ProdData/Access/Web2/install
    - cfgaccweb –appsvrtype *INTAPPSVR –instance *MOBILE
    - It can be deployed on other IBM Integrated Appplication Server instances or other Web Application Server types like WebSphere Application Server, though additional customization is required

14

Getting Started

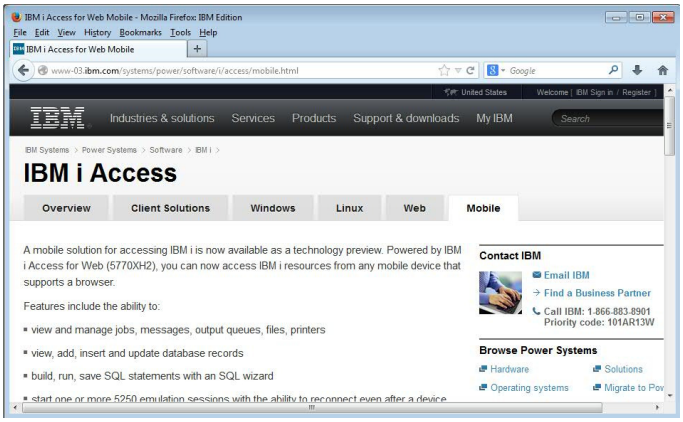
- Connected to via a simple URL from HTTP *ADMIN port 2001
  - http://*system*:2001/**iamobile**
- ADMIN5 runs on port 2011
  - 2001/iamobile redirects
  - Can also use
    - http://*system*:2011/**iamobile/iWAHome**

15

IBM i Mobile Access

More Information:
http://www.ibm.com/systems/power/software/i/access/mobile.html

Latest Information available at this location



16

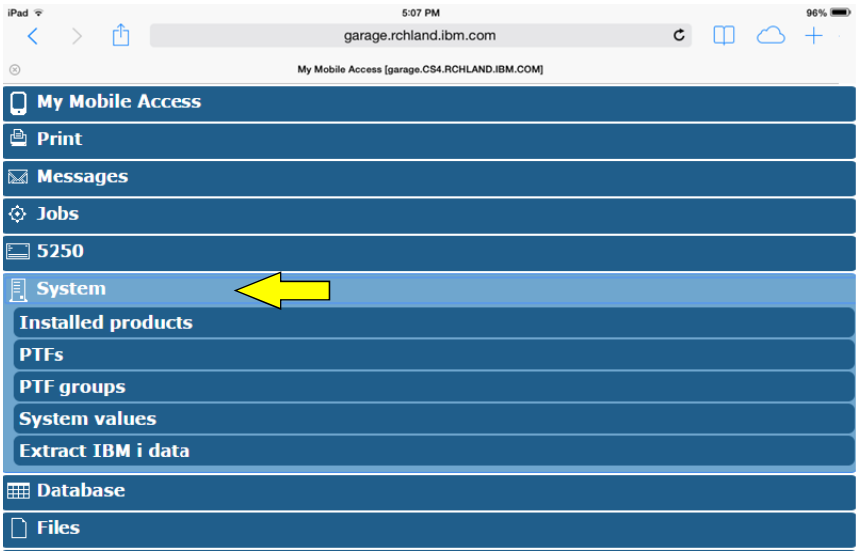
Power Systems

IBM i Mobile Access Functional Overview

17

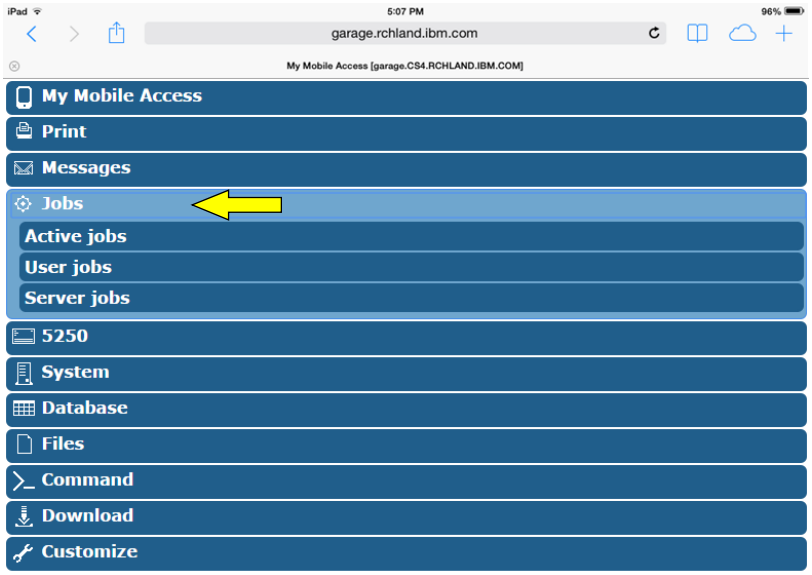
Power Systems

IBM i Mobile Access



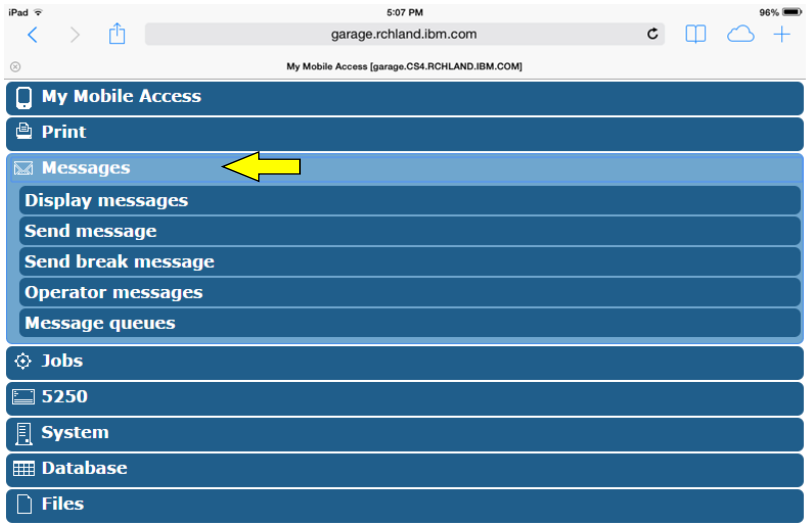
18

IBM i Mobile Access



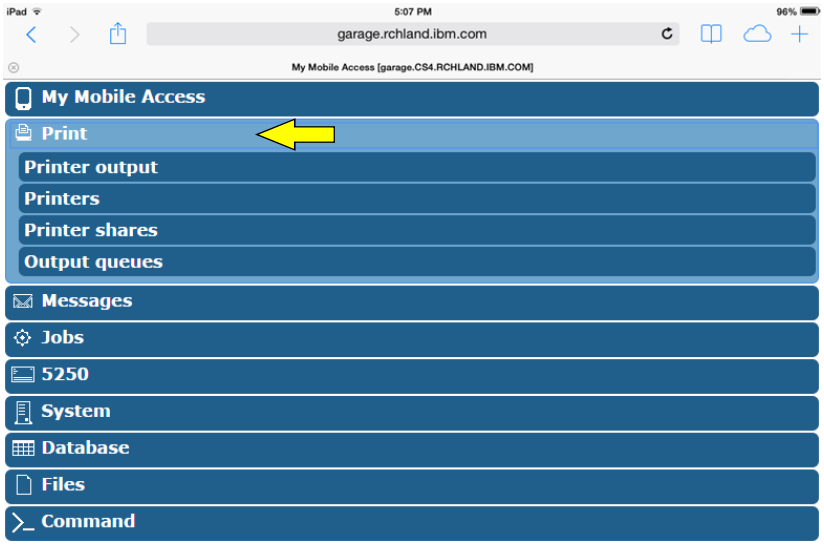
19

IBM i Mobile Access



20

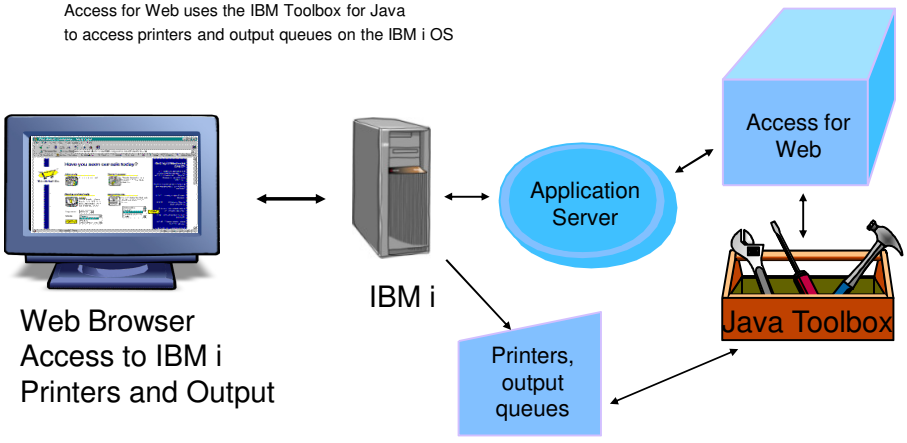
IBM i Mobile Access



21

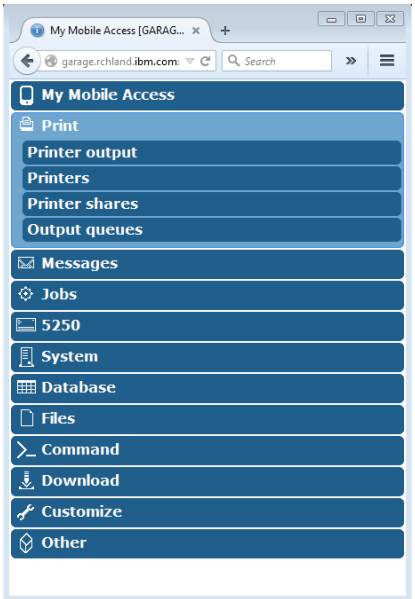
Access for Web Print Overview

Access for Web uses the IBM Toolbox for Java
to access printers and output queues on the IBM i OS



Web Browser Access to IBM i Printers and Output

Print Functions Available



IBM i Mobile Access has many functions for printing and print management.

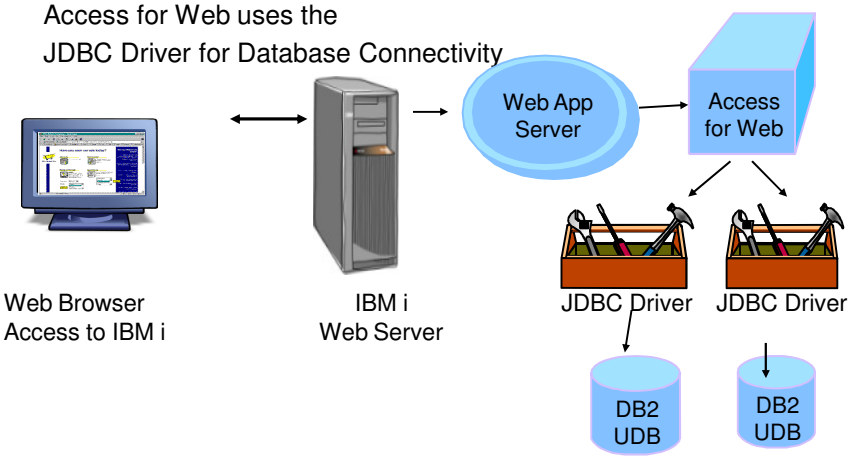
- Printer output - preview, manage output
- Printers - view and manage printers and output
- Printer shares - view printers and manage output
- Output queues - view and manage queues and output

IBM i Mobile Access

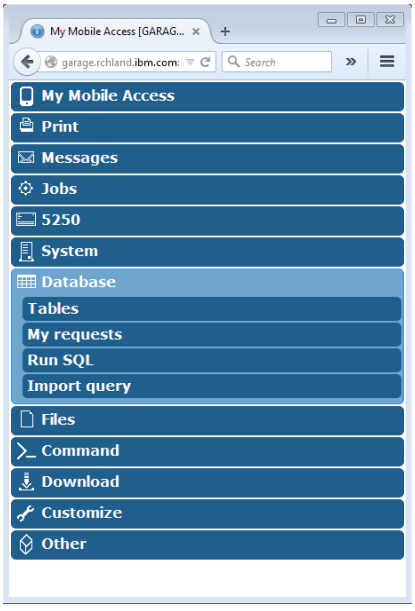
24

Database Overview

Access for Web uses the
JDBC Driver for Database Connectivity



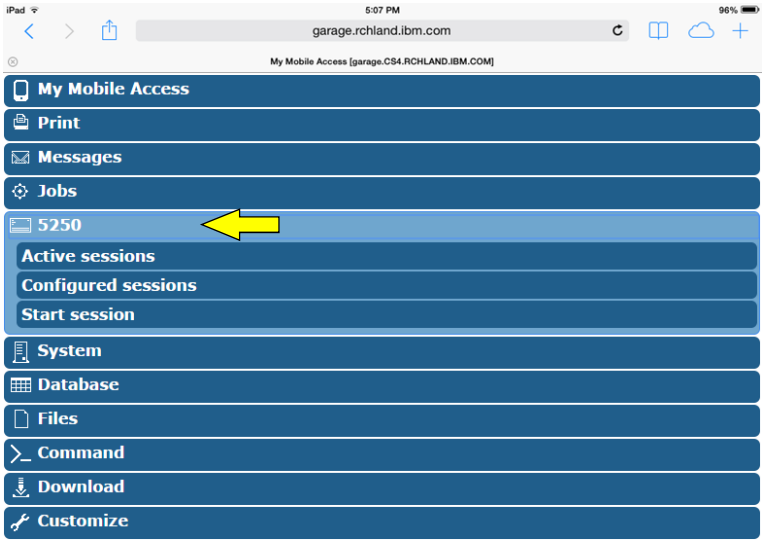
Database Functions Available



IBM i Mobile Access has many functions for Database access and management.

- Run SQL – Run SQL statements with a wizard to build Queries
- My Requests – Run and Manage your saved SQL statements
- Import Query – Imports DB2 Query Manager and Query for i saved queries
- Tables – Robust set of tools for interacting with Tables on the IBM i OS

IBM i Mobile Access



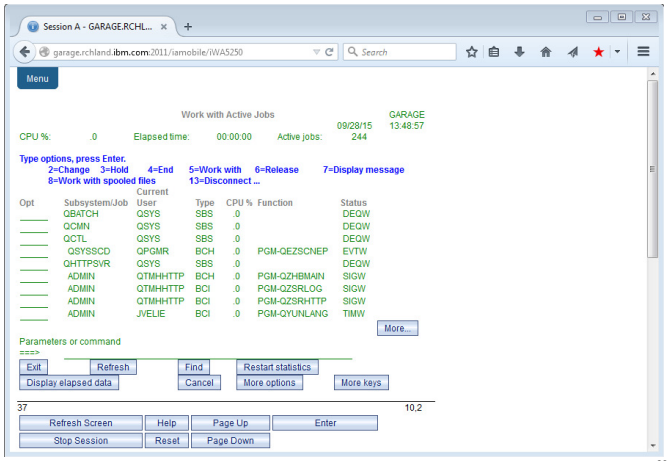
27

Mobile 5250 Interface

Runs as an interactive job

- Only function in IBM i Access for Web that is interactive

Telnet 5250 port

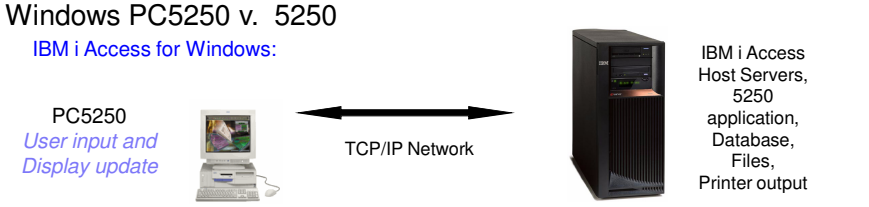


28

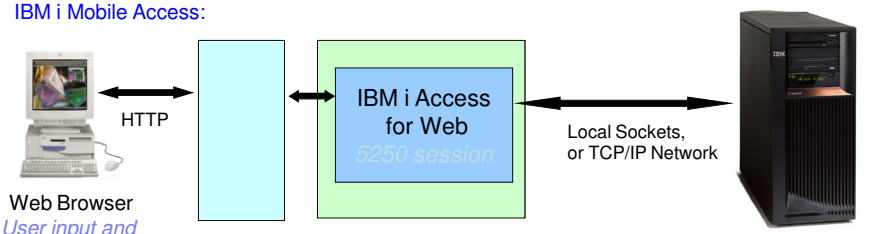
5250 Environment Comparison

Windows PC5250 v. 5250

IBM i Access for Windows:



IBM i Mobile Access:



29

Capabilites

- Includes capability like:
  - Configuring a Session for multiple users
  - Macro recording and playback
  - Colors
  - Function Keys as Buttons
  - Telnet SSL

30

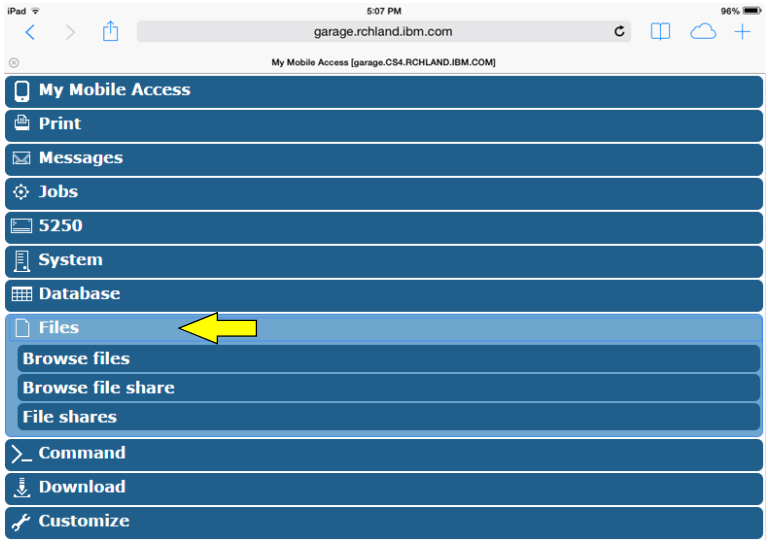
Things to Consider

Because 5250 session is implemented using HTML, considerations to be aware of:

- Not intended to replace full function emulators like IBM i Access for Windows PC5250, IBM i Access Client Solutions Host On Demand based emulator, etc. for purposes of "heads-down" data entry type of operations
  - Does not include graphics, EHLAPPI, DDE functionality
  - Does not provide keyboard mapping
  - Does not support certain keys the way PC5250 does (ie, Field Exit)
- Does not include Printer Emulation (push to printer)
  - IBM i strategy is Internet Printing Protocol (IPP) printing
  - IBM i Mobile Access provides capability to convert spooled files to PDF
- No direct interaction with server, so unsolicited server messages can't be received.
  - Need to request refresh to see break messages

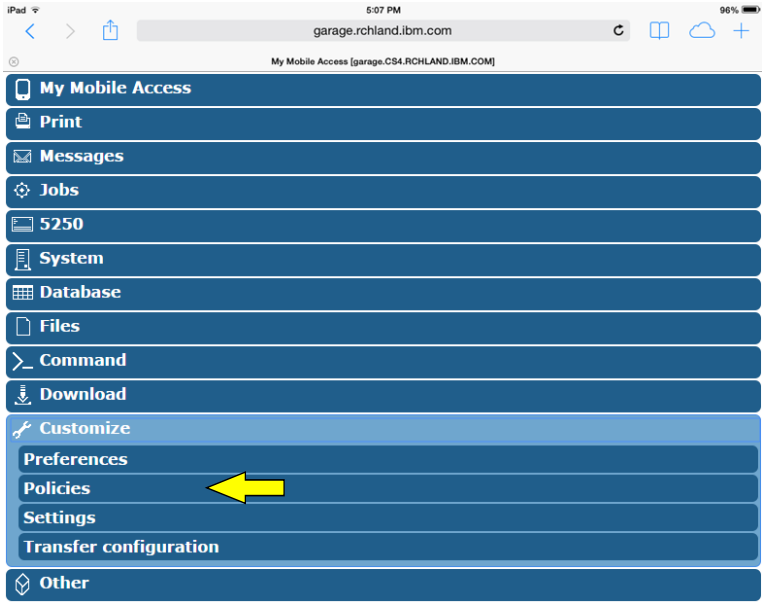
31

IBM i Mobile Access



32

IBM i Mobile Access



33

IBM i Mobile Access Demo

34

Power Systems

IBM

Demonstration Systems Provided By:

iDevCloud.com

IBM i Personal development in the cloud.

iInTheCloud.com

IBM i, AIX, Linux on Power commercial hosting in the cloud.

"What applications have you brought to IBM i today?"

Larry Bolhuis
lbolhuis@iInTheCloud.com
Pete Massiello
pmassiello@iInTheCloud.com

i for Business

Frankeni Technology Consulting, LLC

www.frankeni.com

POWER7 BUILT ON Power

Power Systems

Demo Time – BYOD!

IBM

- Bring Your Own Device (BYOD) and follow along
- We will give you opportunities to find/figure things out and then show you from the front
- Point your Internet connected mobile device to:

http://common1.iInTheCloud.com:2001/iamobile

- Credentials: USRPRF - MICHUGDEMO
  Password - jan19demo

36

Power Systems

Special notices

This document was developed for IBM offerings in the United States as of the date of publication. IBM may not make these offerings available in other countries, and the information is subject to change without notice. Consult your local IBM business contact for information on the IBM offerings available in your area.

Information in this document concerning non-IBM products was obtained from the suppliers of these products or other public sources. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

IBM may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents. Send license inquires, in writing, to IBM Director of Licensing, IBM Corporation, New Castle Drive, Armonk, NY 10504-1785 USA.

All statements regarding IBM future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

The information contained in this document has not been submitted to any formal IBM test and is provided "AS IS" with no warranties or guarantees either expressed or implied.

All examples cited or described in this document are presented as illustrations of the manner in which some IBM products can be used and the results that may be achieved. Actual environmental costs and performance characteristics will vary depending on individual client configurations and conditions.

IBM Global Financing offerings are provided through IBM Credit Corporation in the United States and other IBM subsidiaries and divisions worldwide to qualified commercial and government clients. Rates are based on a client's credit rating, financing terms, offering type, equipment type and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension or withdrawal without notice.

IBM is not responsible for printing errors in this document that result in pricing or information inaccuracies.

All prices shown are IBM's United States suggested list prices and are subject to change without notice; reseller prices may vary.

IBM hardware products are manufactured from new parts, or new and serviceable used parts. Regardless, our warranty terms apply.

Any performance data contained in this document was determined in a controlled environment. Actual results may vary significantly and are dependent on many factors including system hardware configuration and software design and configuration. Some measurements quoted in this document may have been made on development-level systems. There is no guarantee these measurements will be the same on generally-available systems. Some measurements quoted in this document may have been estimated through extrapolation. Users of this document should verify the applicable data for their specific environment.

Revised September 26, 2006

© 2015 International Business Machines Corporation

Power Systems

Special notices (cont.)

IBM, the IBM logo, ibm.com AIX, AIX (logo), AIX 5L, AIX 6 (logo), AS/400, BladeCenter, Blue Gene, ClusterProven, DB2, ESCON, i5/OS, i5/OS (logo), IBM Business Partner (logo), IntelliStation, LoadLeveler, Lotus, Lotus Notes, Notes, Operating System/400, OS/400, PartnerLink, PartnerWorld, PowerPC, pSeries, Rational, RISC System/6000, RS/6000, THINK, Tivoli, Tivoli (logo), Tivoli Management Environment, WebSphere, xSeries, z/OS, zSeries, Active Memory, Balanced Warehouse, CacheFlow, Cool Blue, IBM Systems Director VMControl, pureScale, TurboCore, Chiphopper, Cloudscape, DB2 Universal Database, DS4000, DS6000, DS8000, EnergyScale, Enterprise Workload Manager, General Parallel File System, , GPFS, HACMP, HACMP/6000, HASM, IBM Systems Director Active Energy Manager, iSeries, Micro-Partitioning, POWER, PowerExecutive, PowerVM, PowerVM (logo), PowerHA, Power Architecture, Power Everywhere, Power Family, POWER Hypervisor, Power Systems, Power Systems (logo), Power Systems Software, Power Systems Software (logo), POWER2, POWER3, POWER4, POWER4+, POWER5, POWER5+, POWER6, POWER6+, POWER7, System i, System p, System p5, System Storage, System z, TME 10, Workload Partitions Manager and X-Architecture are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or ™), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries.

A full list of U.S. trademarks owned by IBM may be found at: http://www.**ibm.com**/legal/copytrade.shtml.

Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.
AltiVec is a trademark of Freescale Semiconductor, Inc.
AMD Opteron is a trademark of Advanced Micro Devices, Inc.
InfiniBand, InfiniBand Trade Association and the InfiniBand design marks are trademarks and/or service marks of the InfiniBand Trade Association.
Intel, Intel logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.
IT Infrastructure Library is a registered trademark of the Central Computer and Telecommunications Agency which is now part of the Office of Government Commerce.
Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.
Linear Tape-Open, LTO, the LTO Logo, Ultrium, and the Ultrium logo are trademarks of HP, IBM Corp. and Quantum in the U.S. and other countries.
Linux is a registered trademark of Linus Torvalds in the United States, other countries or both.
Microsoft, Windows and the Windows logo are registered trademarks of Microsoft Corporation in the United States, other countries or both.
NetBench is a registered trademark of Ziff Davis Media in the United States, other countries or both.
SPECint, SPECfp, SPECjbb, SPECweb, SPECjAppServer, SPEC OMP, SPECviewperf, SPECapc, SPEChpc, SPECjvm, SPECmail, SPECimap and SPECsfs are trademarks of the Standard Performance Evaluation Corp (SPEC).
The Power Architecture and Power.org wordmarks and the Power and Power.org logos and related marks are trademarks and service marks licensed by Power.org.
TPC-C and TPC-H are trademarks of the Transaction Performance Processing Council (TPPC).
UNIX is a registered trademark of The Open Group in the United States, other countries or both.

Revised December 2, 2010

Other company, product and service names may be trademarks or service marks of others.

© 2015 International Business Machines Corporation

Power Systems

Notes on performance estimates

rPerf for AIX

rPerf (Relative Performance) is an estimate of commercial processing performance relative to other IBM UNIX systems. It is derived from an IBM analytical model which uses characteristics from IBM internal workloads, TPC and SPEC benchmarks. The rPerf model is not intended to represent any specific public benchmark results and should not be reasonably used in that way. The model simulates some of the system operations such as CPU, cache and memory. However, the model does not simulate disk or network I/O operations.

- rPerf estimates are calculated based on systems with the latest levels of AIX and other pertinent software at the time of system announcement. Actual performance will vary based on application and configuration specifics. The IBM eServer pSeries 640 is the baseline reference system and has a value of 1.0. Although rPerf may be used to approximate relative IBM UNIX commercial processing performance, actual system performance may vary and is dependent upon many factors including system hardware configuration and software design and configuration. Note that the rPerf methodology used for the POWER6 systems is identical to that used for the POWER5 systems. Variations in incremental system performance may be observed in commercial workloads due to changes in the underlying system architecture.

All performance estimates are provided "AS IS" and no warranties or guarantees are expressed or implied by IBM. Buyers should consult other sources of information, including system benchmarks, and application sizing guides to evaluate the performance of a system they are considering buying. For additional information about rPerf, contact your local IBM office or IBM authorized reseller.

==========

CPW for IBM i

Commercial Processing Workload (CPW) is a relative measure of performance of processors running the IBM i operating system. Performance in customer environments may vary. The value is based on maximum configurations. More performance information is available in the Performance Capabilities Reference at: www.ibm.com/systems/i/solutions/perfmgmt/resource.html

Revised April 2, 2007

© 2015 International Business Machines Corporation