What's New in IBM Notes and IBM Domino

Barry Rosen IBM | Andy Yiu, IBM

Tue, Feb 02

Connect 2016

The Premier Social Business and Digital Experience Conference

#ibmconnect

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Agenda

- Introduction

- IBM Notes Domino - Year in Review

- IBM Notes Domino - Roadmap and Futures
- Domino Security: Present and Future
- SmartCloud Notes/Verse – Year in Review
- SmartCloud Notes/Verse – Roadmap and Futures
- Closing thoughts and messages

- Q&A

Make Every Moment Count

E-mail will continue to be a key method for business communications

and will be most effective when it is part of an overall communications suite

Trust People
Bring customers and partners into the conversation

Empower
Work with anyone, anytime, anywhere, even offline

Engage People
Filter out the noise, illuminate ideas

Extend Technology
Easily integrate existing And new applications

Make Every **Moment** Count

What We are Hearing

"Reinventing email is no small task given its ubiquitous role in our day-to-day lives. **IBM has taken a radically different approach by focusing on people, not the inbox.** From what I've seen of the great new features so far, **it's hard to even call it email**. IBM has created something altogether new that we expect will **significantly improve** our teams' **productivity and collaborative culture**."**Allianz SuisseRobert Spaltenstein | Head of Groupware**

"Wow, **this is what we were waiting for!** The new layout is perfect."

Saxion University Remco Angioni

"We expect IBM Verse will significantly enhance our way of global collaboration and therefore **increase the productivity** of our global organization."

Sika Edwin Meier | CIO deputy

"A new era of email is ready to take over the world. Make your work & life easier with IBM Verse and therefore part of the e-office Digital Workspace!"

e-office Rene Rietveld

Make Every **Moment** Count

Progression of Investment in Notes/Domino

MobileFirst

IBM Verse

SOFTLAYER an IBM Company

OpenNTF.Org

Notes V3 – 1993

IBM acquires Lotus – 1995

- Platform
- AppDev

- Cloud
- Analytics
- Mobile
- Social
- Platform
- AppDev

- **Cognitive.NEXT**
- Cloud
- Analytics
- Mobile
- Social
- Platform
- AppDev

IBM Verse – 2015

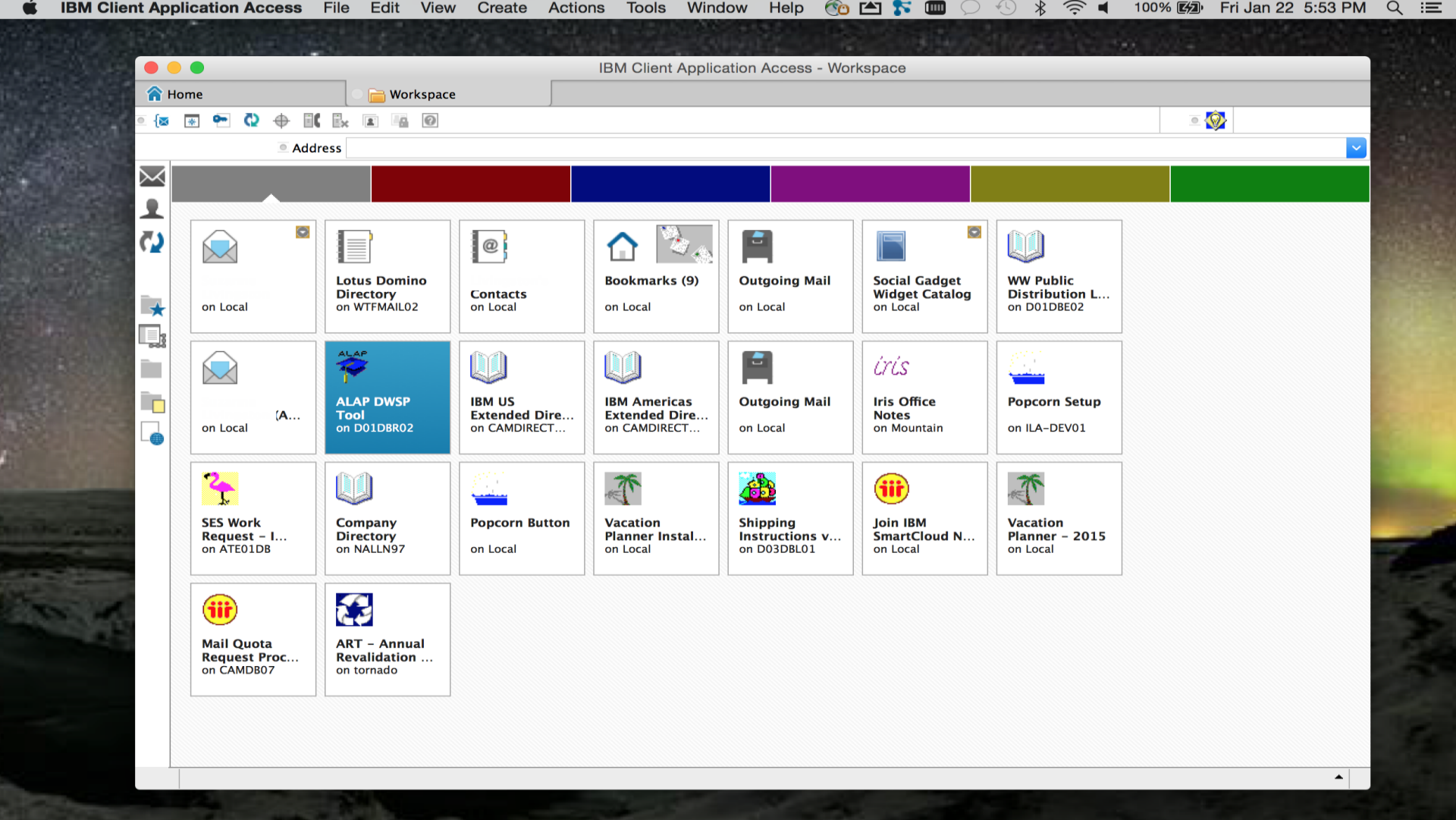
Make Every **Moment** Count

Notes/Domino messaging…Traveler...Embedded Experiences..SoftLayer…Verse...Watson
Notes/Domino app dev..XPages/Java...OpenNTF...OSGi..REST…Social SDK…Responsive…Bluemix

IBM Notes and Domino 2015

On Premises IBM Client Access Application

- Allows iNotes users to access Domino Applications without using the full IBM Notes client.
- Leverage investments in custom applications and deliver them unmodified via IBM Client Access Application
- Lower resource consumption on the workstation
- Requires no retraining for users, and saves your organization from costs associated with rewriting existing applications.


IBM Client Application Access File Edit View Create Actions Tools Window Help 100% Fri Jan 22 5:53 PM
IBM Client Application Access - Workspace
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Bookmarks (9) on Local
Outgoing Mail on Local
Social Gadget Widget Catalog on Local
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ALAP DWSP Tool on D01DBR02
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IBM Americas Extended Dire... on CAMDIRECT...
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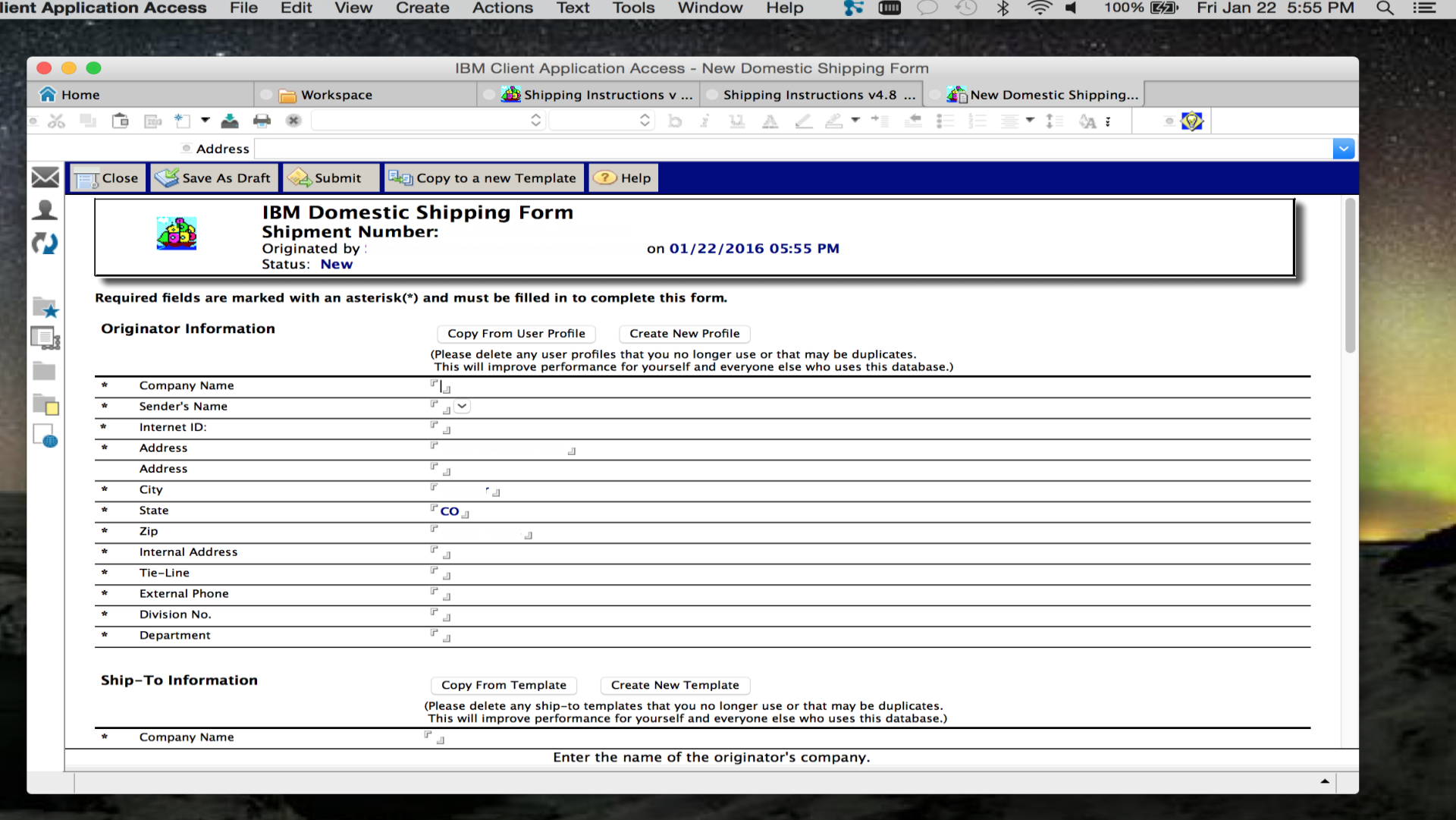
Iris Office Notes on Mountain
Popcorn Setup on ILA-DEV01
SES Work Request - I... on ATE01DB
Company Directory on NALLN97
Popcorn Button on Local
Vacation Planner Instal... on Local
Shipping Instructions v... on D03DBL01
Join IBM SmartCloud N... on Local
Vacation Planner - 2015 on Local
Mail Quota Request Proc... on CAMDB07
ART - Annual Revalidation ... on tornado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IBM Client Application Access - New Domestic Shipping Form
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New Domestic Shipping...
Address
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Submit
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Help
IBM Domestic Shipping Form
Shipment Number:
Originated by
on 01/22/2016 05:55 PM
Status: New
Required fields are marked with an asterisk(*) and must be filled in to complete this form.
Originator Information
Copy From User Profile
Create New Profile
(Please delete any user profiles that you no longer use or that may be duplicates.
This will improve performance for yourself and everyone else who uses this database.)
* Company Name
* Sender's Name
* Internet ID:
* Address
Address
* City
* State
CO
* Zip
* Internal Address
* Tie-Line
* External Phone
* Division No.
* Department
Ship-To Information
Copy From Template
Create New Template
(Please delete any ship-to templates that you no longer use or that may be duplicates.
This will improve performance for yourself and everyone else who uses this database.)
* Company Name
Enter the name of the originator's company.

IBM Notes and Domino 2015

On Premises IBM Client Access Application

- Offers a simple, quicker installation and setup at less than 80 MB.
- Provides additional enhancements to those availability in NBP including:
  - Support for Mac 64 bit
  - Support for Formwave/Lotuscript button in mail

- *Can be downloaded from IBM® Software Download Center/Passport Advantage*

IBM Notes and Domino 2015

Notes 64 bit for Mac

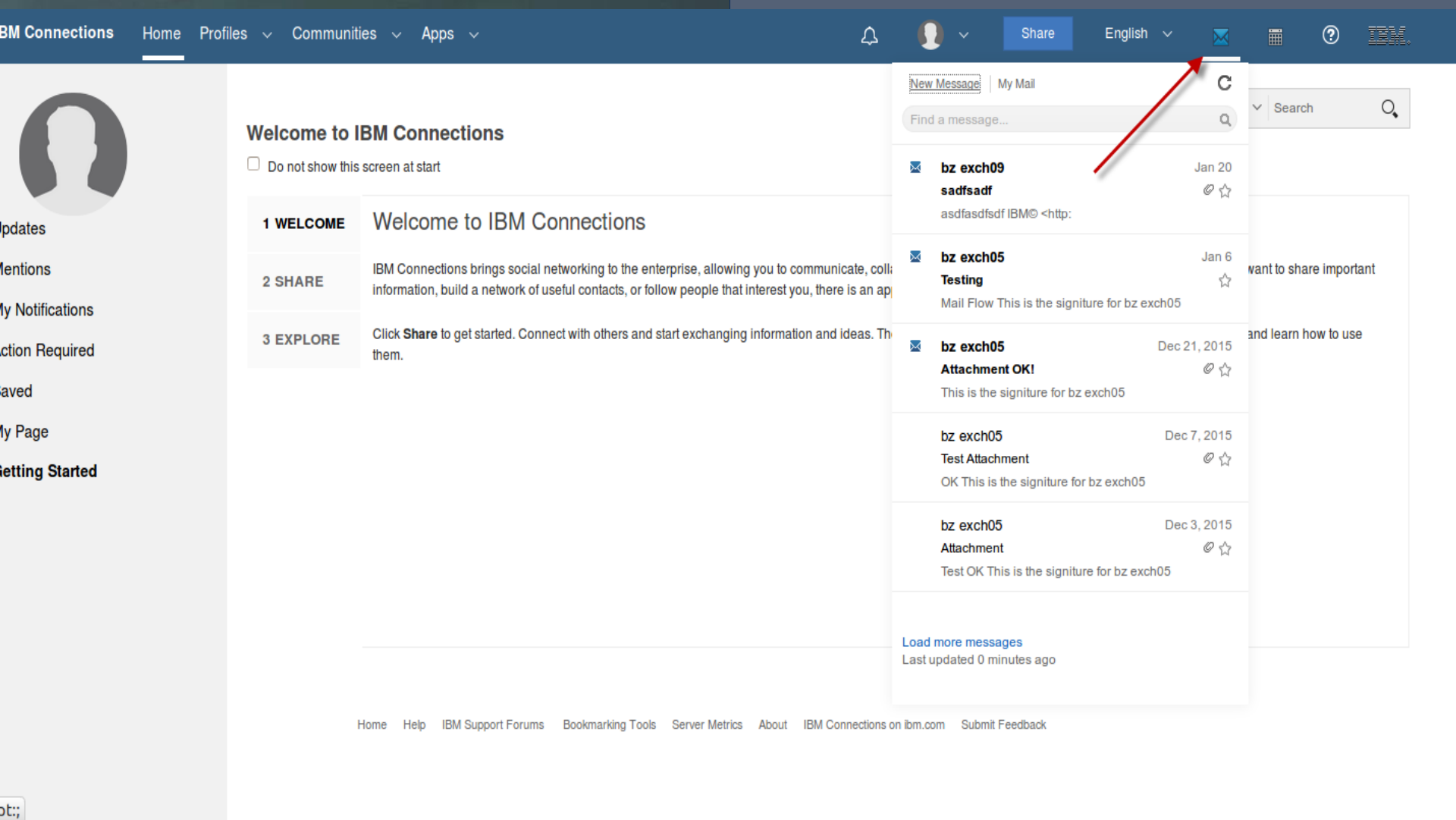
- 64 bit support for IBM Notes on Macintosh hardware running Mac OS/X operating systems.
- Enables IBM Notes to leverage Mac 64 bit hardware and performance capabilities including latest releases of Java

IBM Notes and Domino 2015

Connections Mail 1.7

- Next release of lightweight social mail tool
- Provides simple, elegant web mail and calendar experience while remaining in Connections
- Quickly, easily triage and manage incoming mail without leaving my social context
- Make informed decisions in real-time with a social approach that brings information and expertise into easy and immediate reach
- Maintains IBM Connections Mail functionality for all customers upgrading to Connections 5.5

- *Delivered as a plug-in to on-premises IBM Connections 5.5*
- *To check availability and obtain the IBM Connections Mail version compatible with your Connections version, visit the*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Dec 21, 2015
Attachment OK!
This is the signiture for bz exch05
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Dec 7, 2015
Test Attachment
OK This is the signiture for bz exch05
bz exch05
Dec 3, 2015
Attachment
Test OK This is the signiture for bz exch05
Load more messages
Last updated 0 minutes ago
Search
Welcome to IBM Connections
Do not show this screen at start
1 WELCOME
2 SHARE
3 EXPLORE
Welcome to IBM Connections
IBM Connections brings social networking to the enterprise, allowing you to communicate, colla
information, build a network of useful contacts, or follow people that interest you, there is an ap
Click Share to get started. Connect with others and start exchanging information and ideas. Th
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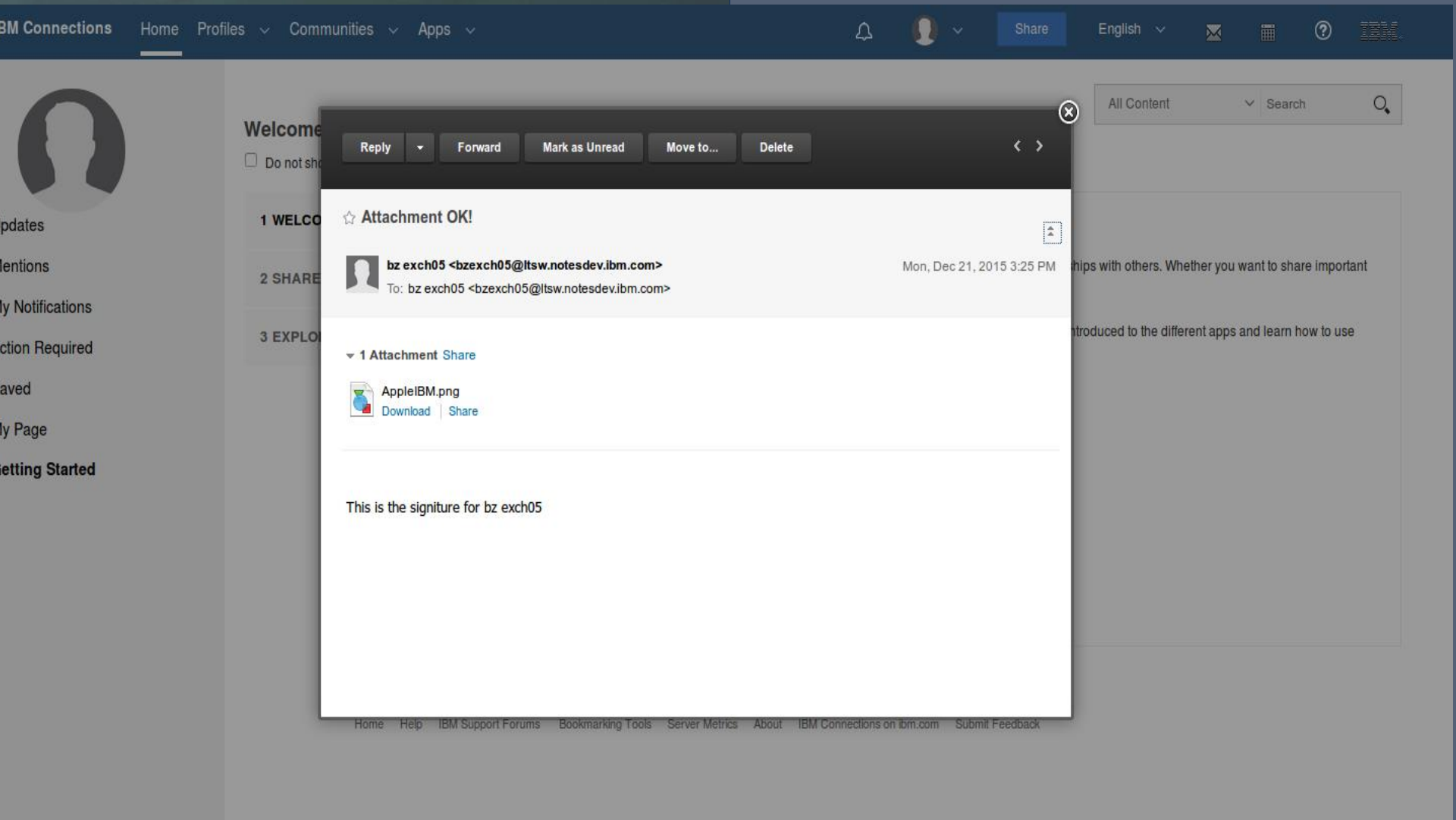
Bookmarking Tools
Server Metrics
About
IBM Connections on ibm.com
Submit Feedback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Delete
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To: bz exch05 <bzexch05@ltsw.notesdev.ibm.com>
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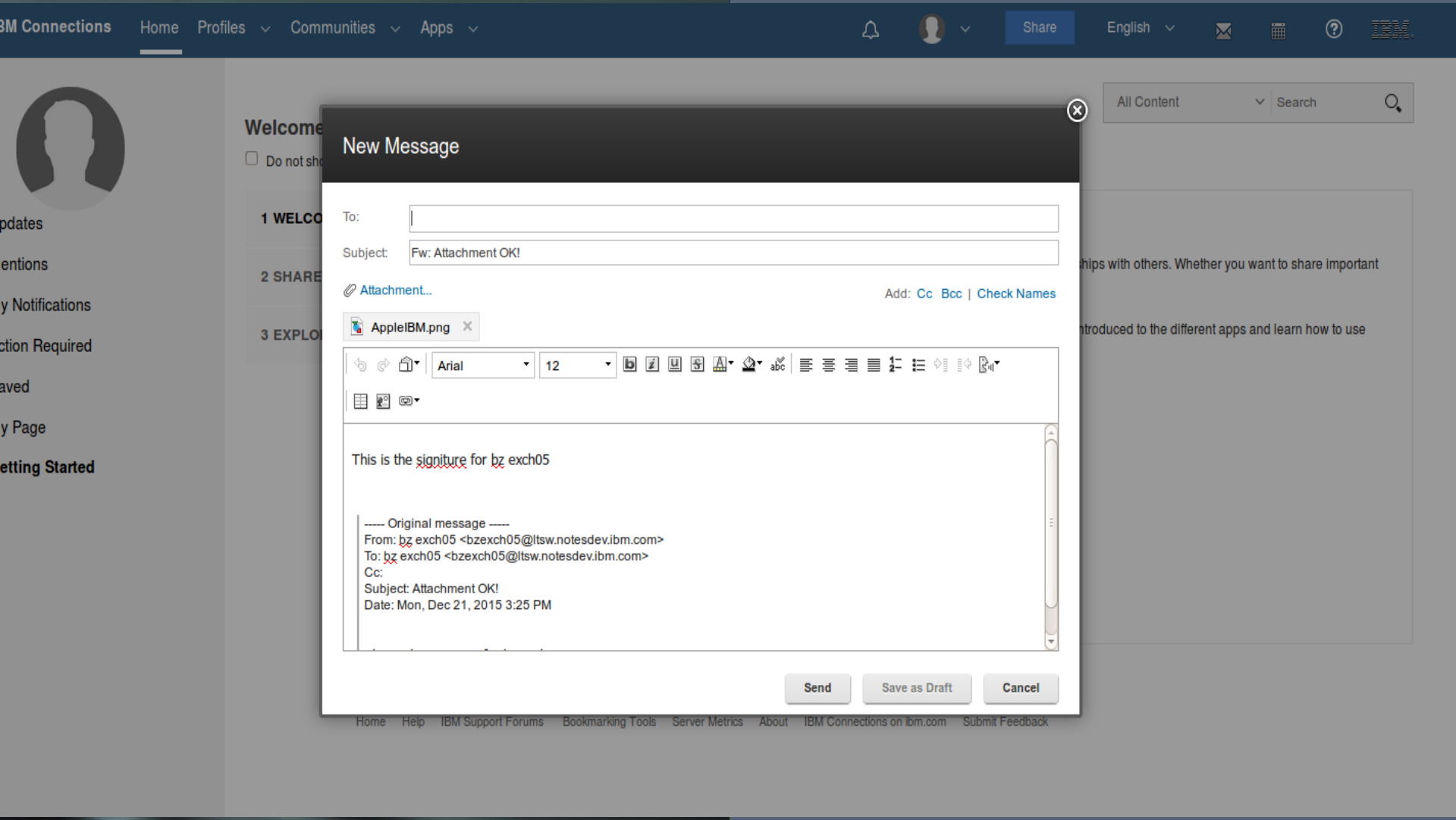
Home
Help
IBM Support Forums
Bookmarking Tools
Server Metrics
About
IBM Connections on ibm.com
Submit Feedback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New Message
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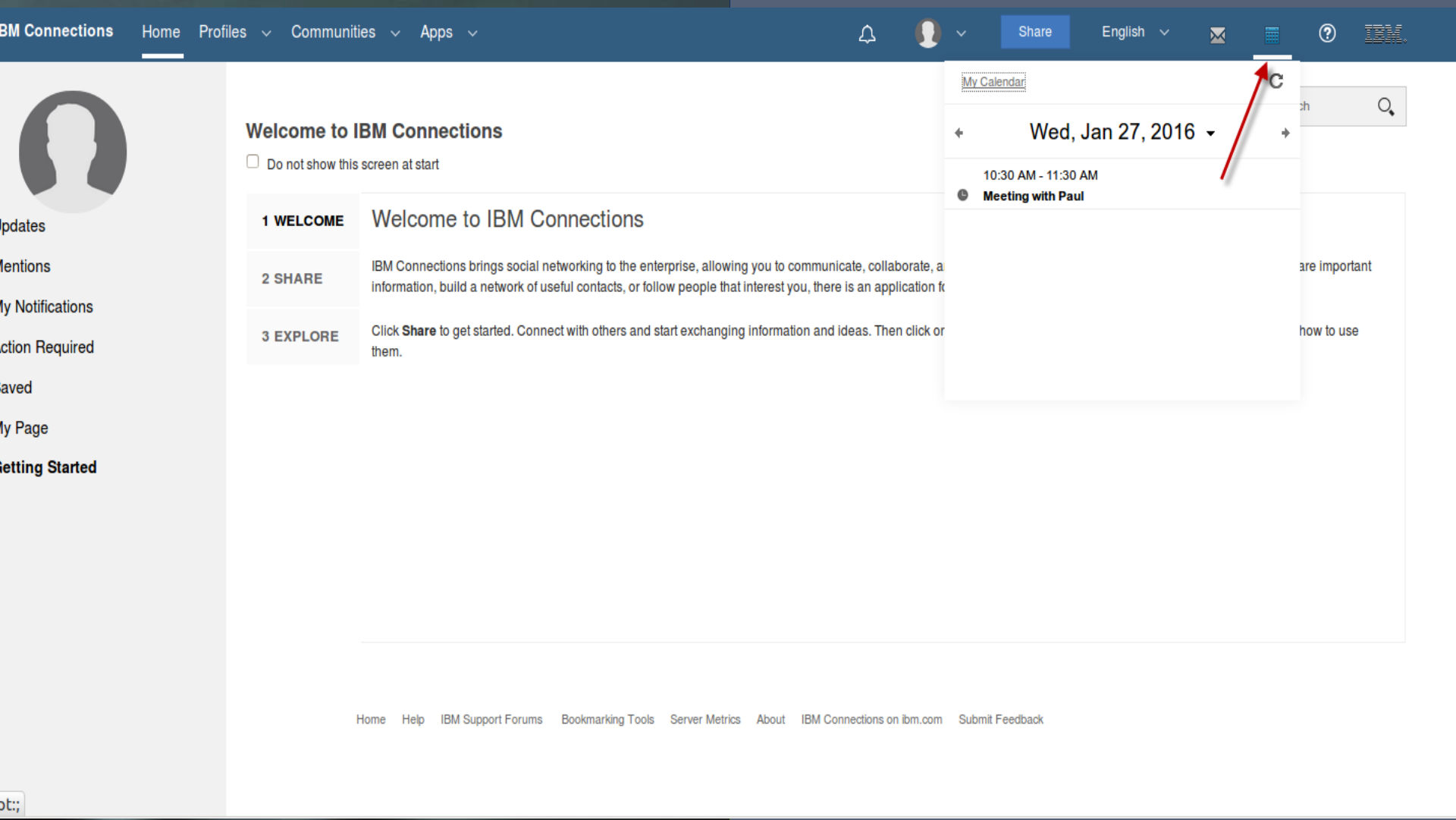
Fw: Attachment OK!
Attachment...
Add: Cc Bcc | Check Names
AppleIBM.png
Arial
12
This is the signiture for bz exch05
----- Original message -----
From: bz exch05 <bzexch05@ltsw.notesdev.ibm.com>
To: bz exch05 <bzexch05@ltsw.notesdev.ibm.com>
Cc:
Subject: Attachment OK!
Date: Mon, Dec 21, 2015 3:25 PM
Send
Save as Draft
Cancel
Home
Help
IBM Support Forums
Bookmarking Tools
Server Metrics
About
IBM Connections on ibm.com
Submit Feedback


BM Connections
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Profiles
Communities
Apps
Share
English
My Calendar
Wed, Jan 27, 2016
10:30 AM - 11:30 AM
Meeting with Paul
Welcome to IBM Connections
Do not show this screen at start
1 WELCOME
2 SHARE
3 EXPLORE
Welcome to IBM Connections
IBM Connections brings social networking to the enterprise, allowing you to communicate, collaborate, a
information, build a network of useful contacts, or follow people that interest you, there is an application fo
Click Share to get started. Connect with others and start exchanging information and ideas. Then click or
them.
Updates
Mentions
My Notifications
Action Required
Saved
My Page
Getting Started
Home
Help
IBM Support Forums
Bookmarking Tools
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Notes/Domino Futures

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IBM Enterprise Social Solutions Roadmap*

CONTINUOUS DELIVERY:

Cloud & Mobile Updates

IBM Verse

IBM Connections Social

IBM Connections Meetings

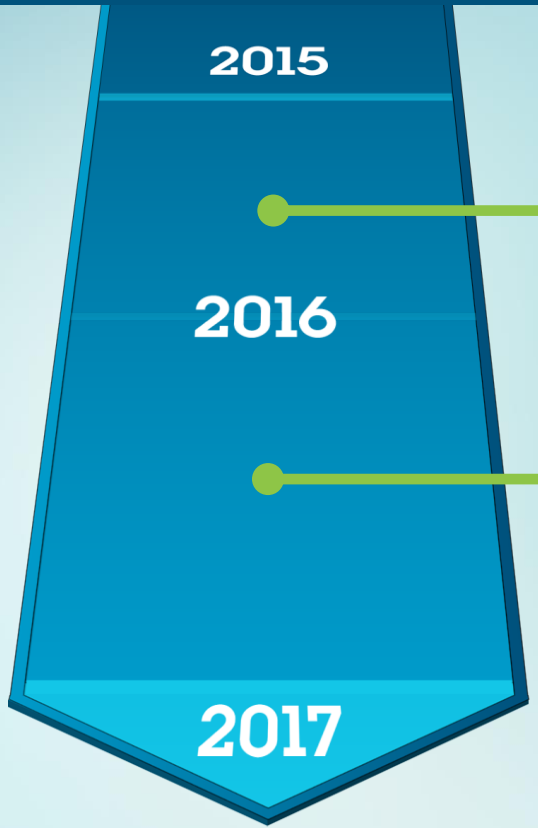
IBM Connections Chat

IBM Docs

SmartCloud Notes

Mobile App Updates

New Data Centers: Canada & Australia



IBM Connections 5.5 (Pure pattern)

IBM Mail Support for Microsoft Outlook (cloud & on premise)

Support for self service of Competitive Mail Migrations

IBM Sametime Update (on premise)

3rd Party Integration (Box, Actiance, 3rd party cloud marketplaces)

APIs/Extensibility/BlueMix (continues 2H)

Project Toscana

New Home Page

Domino "Next"

Expanded Cognitive support (personal assistant)

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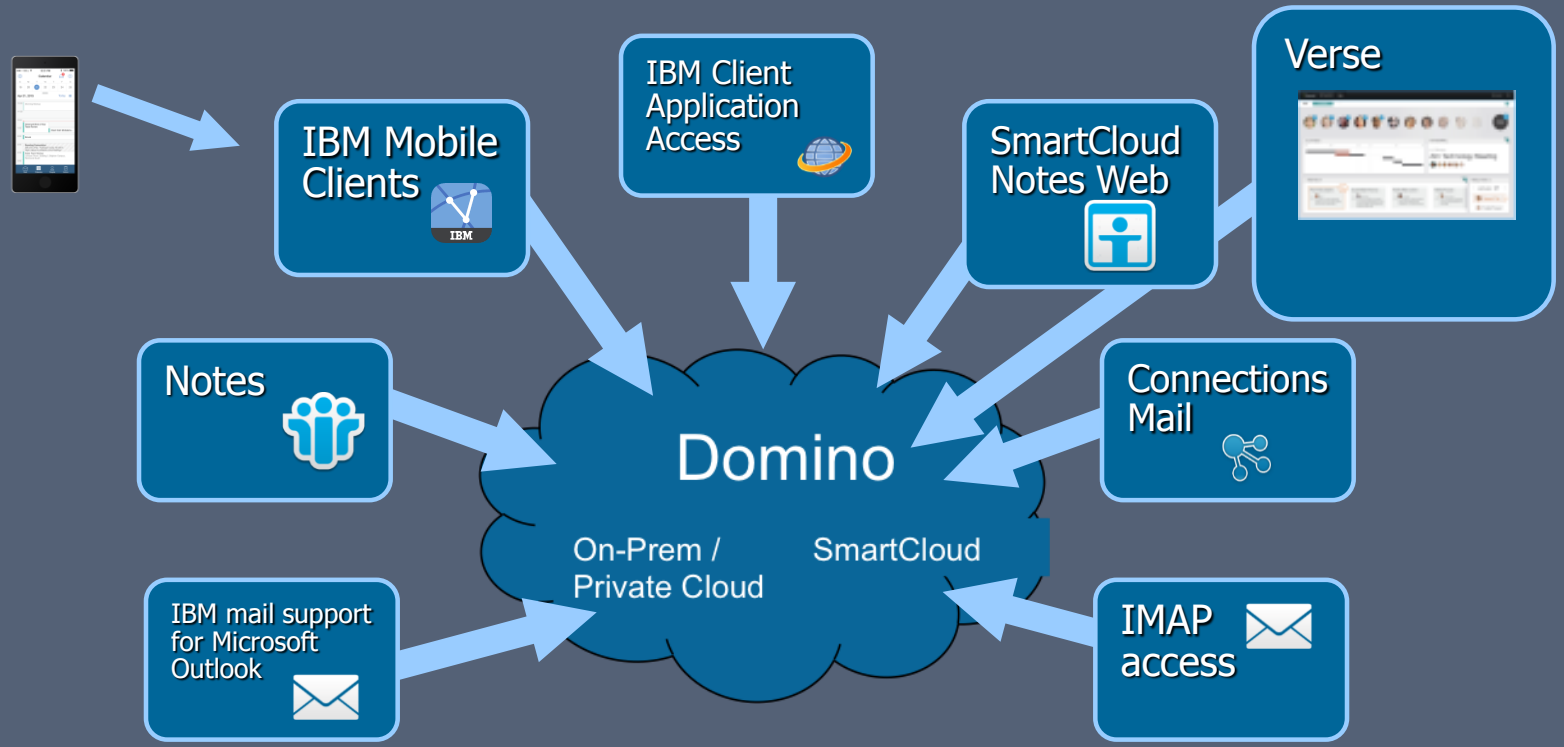
IBM mail support for Microsoft Outlook

In Notes Domino Next, IBM will GA IBM mail support for Microsoft Outlook 2013 providing even greater client choice in client experience.



(P) = On-premises only (C) = Cloud Initially

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IBM Notes and Domino 2016 Roadmap

Notes client features

- Improved calendar interoperability with winmail.dat
- Display internet-style addresses instead of Notes addresses
- Rules will run on existing messages, as well as on new messages
- Delegate Calendar/ToDo's, but not Contacts
- Read-only forward MIME email messages
- Sidebar plug-in/connector for CCM + Files support
- Template updates
- Improved touch support
- HI-RES monitor support
- Windows 10 support

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IBM Notes and Domino 2016 Roadmap

iNotes features

- Improved calendar interoperability with winmail.dat
- Delegate Calendar/ToDo's, but not Contacts
- Open message in Notes client or ICAA link when detecting Notes/LotusScript buttons within a message
- Support for mailto: and sendto:
- Support for IE Standard (non-Quirks) mode
- Support Microsoft Edge browser
- Integration with the latest version of Sametime, Docs, Connections

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IBM Notes and Domino 2016 Roadmap

Domino features

- TLS 1.2 support for all protocols (provides the security for which Domino is known)
- Store database view indexes outside of NSF file (provides more headroom for application data and reduces backup costs)
- Live View Refresh (improves application performance and usability)
- IMAP performance tuning (reduces the impact of outages on client and server)
- Support RFC 2231 (the current standard for specifying non-ASCII headers)
- Support for Microsoft proprietary file types, (e.g., winmail.dat files, calendar and message files)
- Domino policy to restrict mail rule from forwarding incoming Notes mail to an internet forwarding address (delivered in cloud first, closes potential security exposure)
- Currency updates (JVM 8, Keyview, etc.)

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IBM Notes and Domino 2016 Roadmap

Domino Designer features

- Designer integration with Bluemix (deploy applications directly to Bluemix)
- Document encryption and signing in XPages (encrypt application data and ensure authenticity in web applications)
- API access to ID vault (provides the ability for developers to work with IDs stored in ID vault)
- Responsive design with Bootstrap (develop elegant applications that adapt to device screen form factor)
- Relational data source (provides the ability for developers to easily integrate relational data into their Domino applications)
- Open sourcing most of XPages (enables developer community to enhance XPages)
- Currency: Java 8, Dojo, Bootstrap, CK editor, Active Content Filtering, OSGi

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Bringing The Power of Domino To The Cloud

IBM Notes and Domino 2016 Roadmap

XPages runtime on BlueMix

+

Bluemix is an **open-standards**, cloud-based **platform** for **building**, **running, and managing applications.**

Domino is a **Rapid Application Development & Deployment** platform for custom Line-of-Business applications

Create the next generation of Domino applications leveraging other Bluemix services such as Watson, analytics, IOT and more…

Leverages your investment in Notes & Domino apps and skills

Provides path to cloud for Domino developers (BPs & corporate developers)

Bluemix delivers Domino's XPages runtime in a Cloud First continuous delivery model

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IBM Notes and Domino 2016 Roadmap

IBM Client Application Access (ICAA) Next

1. Stand alone application instead of a browser plugin for Windows
2. Support for all @commands
3. Can be installed with Notes Rich client
4. Simplify the application when launched from Verse to show only relevant content
   - Default Verse theme + RGB code,
   - Theme support + Verse theme for Mac

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Domino Security: Present and Future

Dave Kern
Resident (Security) Paranoid

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A few simple reasons to upgrade Domino 901 now

Enable TLS 1.0 by default — 8.5.x ->9.0.1 IFs

- POODLE and POODLE on TLS
- Protocol downgrade attacks
- SSLv2-die-die-die
- Removed insecure SSL renegotiation
- Disabled <128 bit ciphers

- Forward Secrecy enabled by default — 9.0.1 FP4 IF2
- Pervasive global network monitoring
  - ECDHE Forward Secrecy
- Logjam 1024 bit pre-computation
  - Support custom DH groups
  - Minimum 2048 bit well-known DH groups(*)
- TLS logging enhancements (9.0.1 FP5)

2015

2016

- Enable TLS 1.2 by default — 9.0.1 FP3 IF2
- Deprecation of MD5 and SHA-1
  - SHA-2 certs supported in 9.0.x
  - SHA-2 ciphers for TLS 1.2
- BEAST attack
- Secure renegotiation extension – RFC 5746
- Pervasive global network monitoring
  - DHE Forward Secrecy
- Keyring file cached in memory
- SSL Stripping attack
  - HSTS – RFC 6797

- RC4 Bar Mitzvah — 9.0.1 FP4
- OCSP Stapling – RFC 6066
- Logjam 1024 bit pre-computation
  - Lower priority of Java 6's sole DHE cipher
  - Add 4096 bit DHE support

- SLOTH attack — 9.0.1 FP5 IF1
- Triple Handshake attack – RFC 7624
- Outbound TLS 1.2 fixes
  - Defects KLYHA57S37, MKENA4SQ7R

Make Every **Moment** Count

Never vulnerable to CRIME, FREAK, or Heartbleed!

SHA-2 in Domino 9.0.x

- Password encryption of ID Files (9.0)
- SAML (9.0)
- S/MIME signatures using SHA-2 (9.0)
- X.509 certificates signed with SHA-2
  - Used for S/MIME and SSL (9.0)
  - Domino CA Process support (9.0)
  - Kyrtool.exe (Standalone executable against 9.0.x)
- Certreq.nsf for SHA-2 keyring files (9.0.1 FP2 IF2*)
- TLS 1.2 protocol and ciphers (9.0.1 FP3 IF2)

- SHA-2 planned for Domino.Next
  - Notes RPC (NRPC) Authentication tickets
  - NRPC Network Integrity verification

- SHA-2 and TLS 1.2 work **cannot** be backported to 8.5.x
  - Upgraded crypto library in 9.0
  - Massive changes to enable SHA-2

Make Every **Moment** Count

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NRPC Network Port Encryption with AES

- NRPC Network Port Encryption with AES
  - Planned for Domino.Next
  - Running in the labs today
  - Controlled on the Domino server
  - Enabled by default on clients
  - Uses a FIPS 140-2 certified cryptographic library
- Multiple permutations:
  - Old port encryption with HMAC SHA-256 integrity checking
  - 128 bit AES-CBC with HMAC SHA-256 integrity checking
  - 128 bit AES-GCM for encryption and integrity checking
  - Forward secrecy and 256 bit AES under consideration

Make Every Moment Count

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Encryption of data at rest with AES
(Using a FIPS 140-2 certified cryptographic library)

- Notes/Domino 8.0.1
  - Document encryption keys and document, Notes mail, and ID file encryption
- Notes/Domino 8.5
  - Notes ID vault encryption
- Notes/Domino 9.0
  - S/MIME and SAML encryption
  - Encryption within the OAuth token store DB
- Under consideration for Domino.Next:
  - Domino Database Encryption with AES
  - DAOS Encryption with AES

Make Every Moment Count

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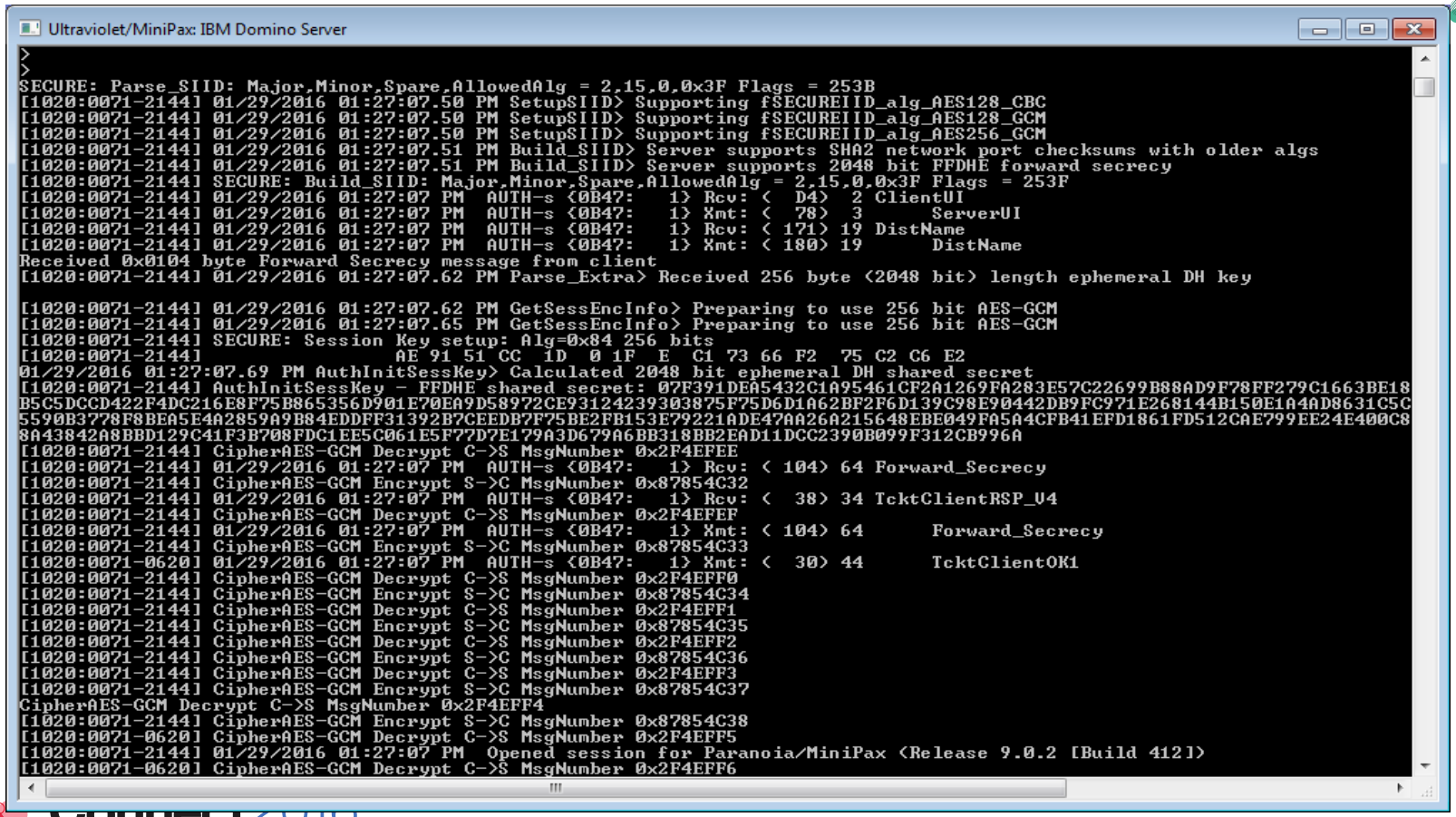
NRPC Network Port Encryption with AES



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IBM SmartCloud Notes & Verse

Year in Review

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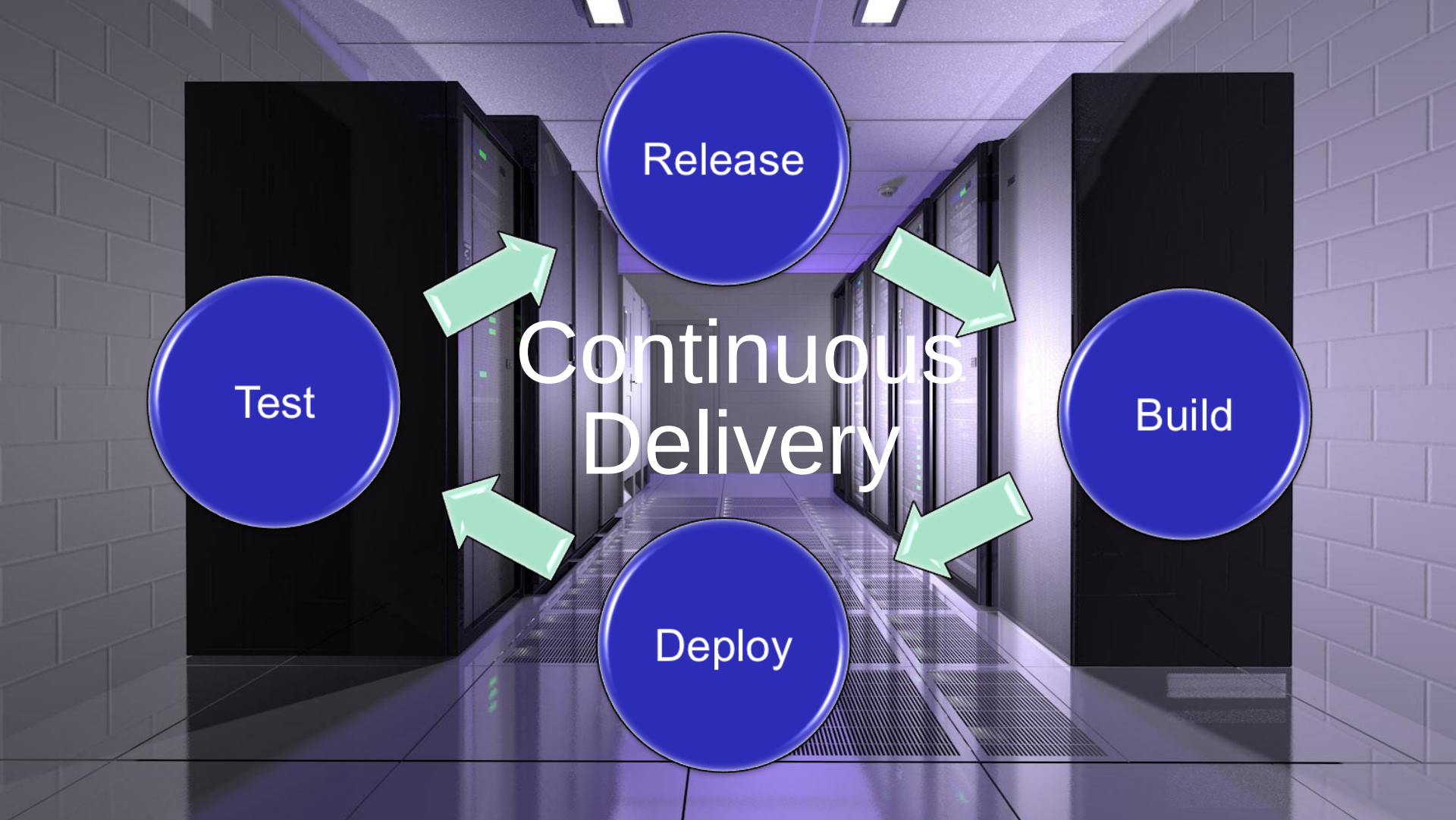
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Continuous Delivery
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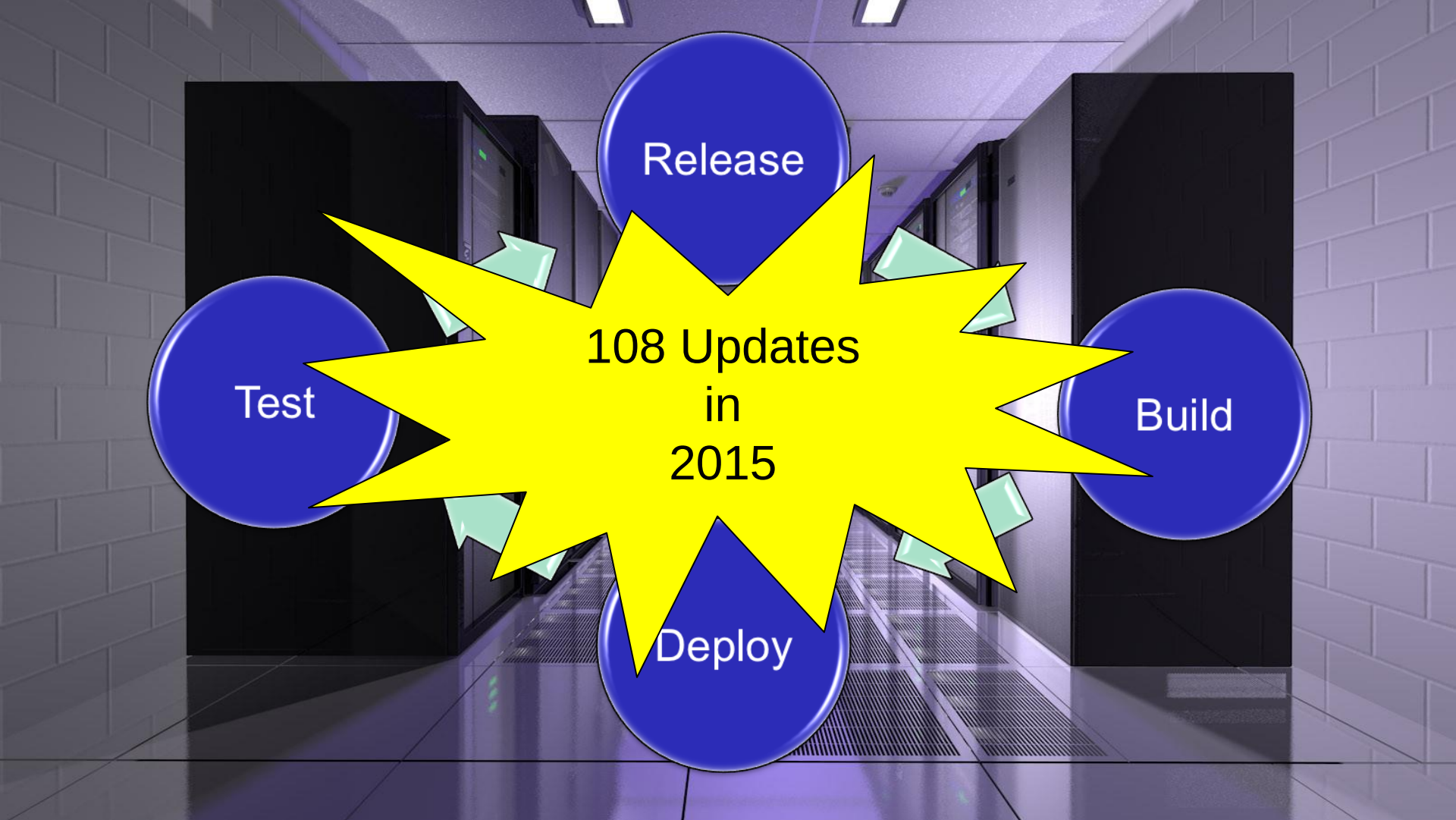
Release
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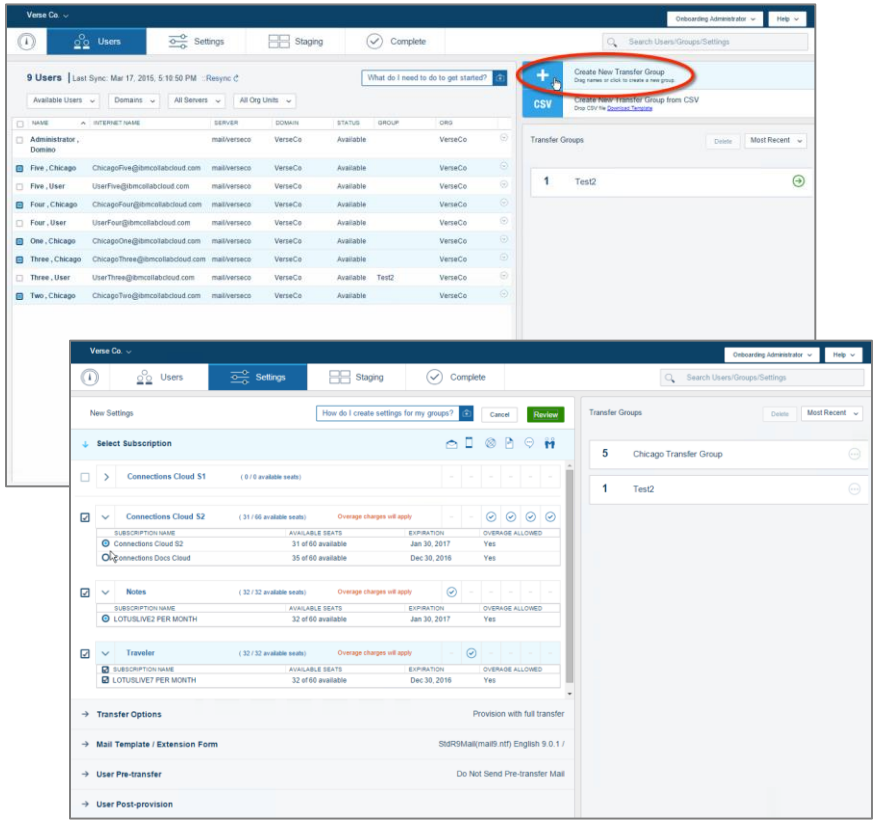
108 Updates
in
2015



IBM Connections Cloud – SmartCloud Notes/Verse

New Mail Migration Capabilities

- Mail Onboarding Manager GA – March 2015
  - Streamlines the migration experience from On-premises ND to IBM SmartCloud. No certification required.
- Mail Onboarding Manager Feature Updates
  - Locate users quickly via quick find
  - Embed config.nsf into the mail file
  - Support for clearing search
  - Filter search results
  - Optional pre-transfer email to users
  - Select a transfer group from the User or Settings page

IBM Connections Cloud – SmartCloud Notes/Verse

New Mobile Capabilities

- IBM Verse client for iOS and Android devices.
- Meeting Moderators can now view who has accepted a meeting invitation.
- Real-time push notifications available for both Android and iOS
  - Mail
  - Calendar
  - To Dos
- MaaS360 Cloud Extender Support
- Calendar ghosting on unprocessed calendar invitations

IBM Connections Cloud – SmartCloud Notes/Verse

New Administrator Capabilities

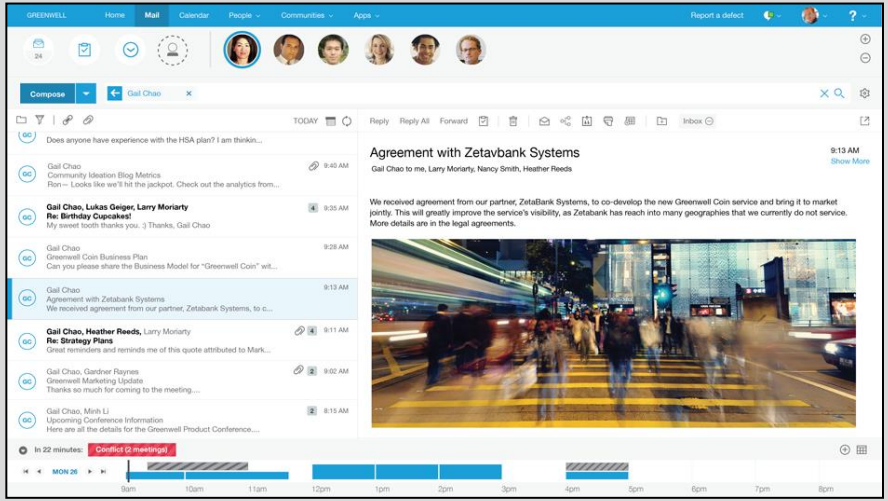
- Administrative Notifications
  - Opt-in notification when a directory synchronization failure occurs
- Global Policy for Local Archiving
  - Administrators can define a policy which allows user to create a local archive from their local replica/managed mail replica
- Audit log for administrator activities
- Administrators can update mail file ACLs
- Support for additional mail/passthru servers

IBM Connections Cloud – SmartCloud Notes/Verse

New End-user Capabilities

- Upgraded mail quotas to 50GB per user.
- Set Verse as the default mail experience.
- Safari 8 support on Macs
- IBM Client Application Access (ICAA, formerly known as Notes Browser Plug-in)
- Support opening messages in IBM Notes/ICAA when a Notes button is detected within a message.
- Return Receipt support on Outbound SMTP mail
- Advanced Name Pickers available in SC Notes Web.
    - Group Calendar creation, preferences, etc
- Improved interoperability with Microsoft Exchange calendar wimamil.dat
- SC Notes Web: ActiveX update

IBM Verse

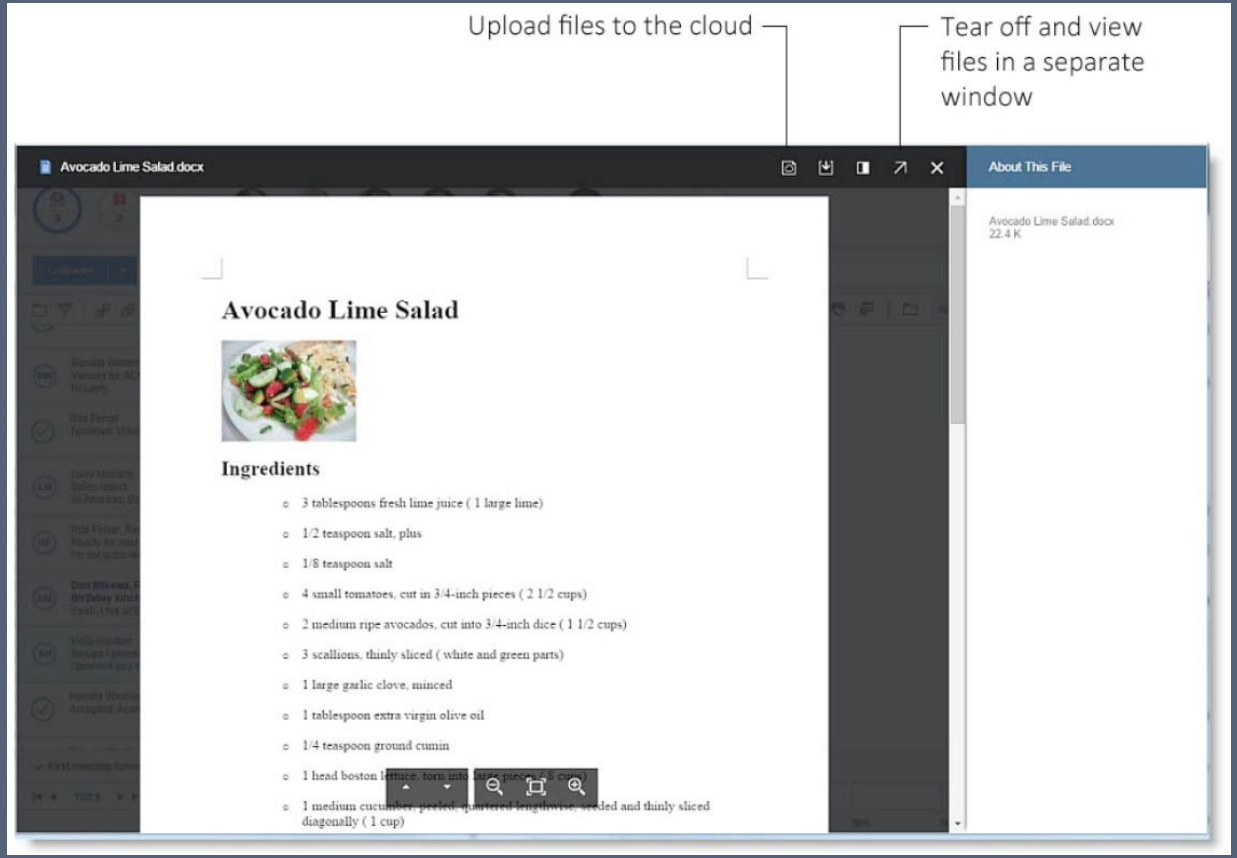


IBM Connections Cloud – SmartCloud Notes/Verse

New Verse-specific Capabilities

- Verse GA – March 2015
- Verse Continuous Delivery Features
  - Out of the office support
  - Define/Insert signature
  - Prevent Copying
  - Entitlement Support for Share to Blog
  - Online Resiliency
  - File preview of office type files
  - Send encrypted and digitally signed email
  - Business Card on typeahead
  - Team Analytics
  - Integration for mail messages containing computed buttons or computed content
  - …..

File Preview of Office Type Files



IBM Connections Cloud – SmartCloud Notes/Verse

New Language Support

- Arabic
- Hebrew
- Serbian
- Slovakian (Admin-only)

WHAT'S NEXT?

IBM Connections Cloud – Messaging on Cloud
Future Themes & Visions

1Q 2016

UNDER DEVELOPMENT:

- Administrators can quarantine attachments by file type.
- User rename validation tool
- Mail Onboarding Manager Updates
  - Multiple Administrator Support
  - Performance enhancements
  - SMB Mail Migrations
- IBM mail support for Microsoft Outlook on cloud (aka Hawthorn.NEXT)
- APIs to support uploading Notes ID files into the SC Notes ID vault
- Include Mailbox owner name in the browser tab
- Accent insensitive searches support
- Improved IMAP support
- Allow a user to set default options for text styles and size.
- Nested lateral bar in replies in SC Notes Web.
- Print message without the recipient list to comply with Spanish privacy regulations (SC Notes Web only)
- New Browser Support
  - Edge on Windows 10
  - Safari on Mac OS 10.11 (El Capitan)

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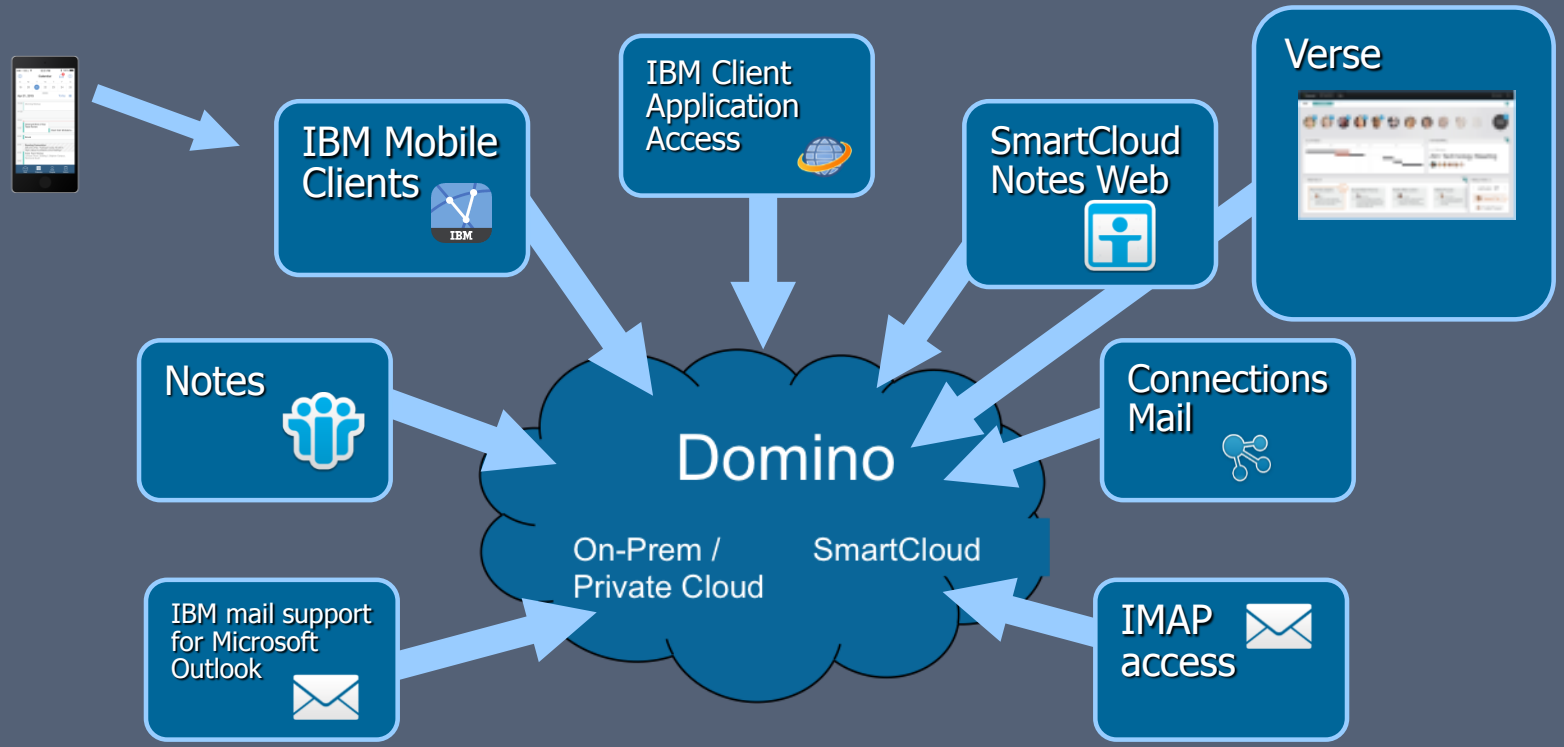
IBM mail support for Microsoft Outlook

In Notes Domino Next, IBM will GA IBM mail support for Microsoft Outlook 2013 providing even greater client choice in client experience.



(P) = On-premises only (C) = Cloud Initially

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IBM Connections Cloud – Messaging on Cloud
Future Themes & Visions

Future Visions

- Administration
  - Support user email aliases
  - Departmental Administration
  - Support for third-party archiving solutions
  - Restrict users/groups from sending outbound mail
  - Support dual delivery for Verse POCs
  - Smart Host to support mail migrations
  - Support for Flexible Activated Parts in Mail Onboarding Manager & SmartCloud Notes Admin UI
  - Enforced TLS – Mandatory Encryption between two domains.
- Developer Support
  - REST API support for Mail, Calendar and Contacts
- Mailbox / Message
  - Copy Format support in messages
  - Shared Mailbox Support
  - Automatically save messages while composing (SC Notes Web)
  - Allow users to download/save multiple attachments
  - Support exporting messages as eml files (SC Notes Web)
  - Preview attachments support in SC Notes web
  - Faster WebMail Notifications
  - Enhancements to Block Sender
- Archiving/Compliance
  - Actiance Support for IBM Connections Cloud
- Mail Hygiene
  - Notifications when a message is blocked
  - Administrator controlled whitelist/blacklist
  - Advanced quarantine controls
  - Content filtering / DLP Controls
- Calendar
  - Import Holidays
  - Import/Export iCalendar Entries
  - Hosted Rooms & Reservations
  - Calendar Overlays from External Sources

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IBM Connections Cloud – Verse
Future Themes & Visions

1Q 2016

COMMITMENTS for UI enhancements:

- Easier meeting invitation creation
- Consistent look/feel in calendar
- Support for nested folders while attaching a link to an item in Files
- Offline (GA)
- BOX.com integration
- 3rd-party UI integration via programmable URLs
- Efficient use of screen space
- Change default email font

2Q 2016

CANDIDATES for continued innovation:

- Additional mail “triage” actions while offline
- Attachment management while working offline
- “Assistance” for easily introducing significant new features in Verse
- Support for allowing multiple people per “people bubble” in the “Important to Me” bar
- Seamless contact information across IBM Connections Cloud services
- Filter to see unread messages only
- Interface to retain user settings
- Calendar alarms/alerts
- Resize message pane
- Message list density control
- Enhanced chat presence/awareness

3Q 2016 and beyond

THEMES around continued innovation:

- Administrative Assistant access to calendar
- Third-party integration using public APIs (ONGOING)
- Watson as your “Personal Assistant” – personalized, automatically organized inbox and suggested actions based on past behavior
- Make my inbox more “actionable” (NA/WFA)
- We know lots of stuff about you, so…perhaps there are more interesting things worth exploring…
- IBM Verse On-Premises – A Companion Service for Domino “Next”
- …

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IBM Verse On-Premises
A Companion Service for IBM Domino “Next”

- **Timeline?**
  - 2H2016 (~EO2016)
- Effect on 9.0.x?
  - Hawthorn GAs; targeting EO1H2016
  - All other content is pushed to “Next”
- User experience?
  - Consistent with cloud
  - Includes: Offline, Box®, add’l UI refinements, Calendar Inbox, etc.
- Hybrid availability?
  - At this time, no hybrid support
  - All integrated product must be on-premise
  - Currently evaluating
- Mobile support?
  - Yep; iOS® and Android®
- Server platforms?
  - Currently evaluating
- Cost?
  - Still under discussion; stay tuned
  - IBM’s intent is to entitle to customers who’ve purchased “Next”
- Part of Notes/Domino or separate?
  - Similar to “Hawthorn” and “Traveler”
  - Runs as a “companion” on top of “Next”
- Access to apps?
  - Does not change
  - Select from Notes or ICAA to run apps content is pushed to “Next

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Cognitive

Unleashing natural language capabilities to streamline day-to-day mail, calendaring and key tasks

More Analytics

Virtual assistants and expanded recommendation engines to provide even more help in managing your workday

More Social and Collaboration

Deeper integration of Connections Activities with mail-based actions, and blurring further the lines between social and mail to manage work

Verse on Premises

Bringing the Verse cloud experience on Premises

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Other Sessions of Interest

- 1529 - IBM Domino App.Next - Broadening Your Horizons with Bluemix
- 1542 - Get Hands-On with XPages Apps for Bluemix
- 1548 - Building Responsive Applications Using XPages
- 1373 - Bring Your Own Client with IBM Mail Support for Microsoft Access
- 1314 - IBM Verse: Advance Your Inbox!
- 1536 - IBM Verse: Deep Dive and Futures
- SPA-1658A – ASK the Developers and Product Managers

Make Every Moment Count

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