

OprivaKey

Speaker Panel

Alex Kim, Vicom Infinity Vincent Terrone, Vicom Infinity

Patrick Kelly, Privakey

Jay Desai, Xtreme Data

Dr Carlos Caicedo, Syracuse University





Panel Moderator

Len Santalucia, Vicom Infinity



Vicom Infinity Voice Assistant

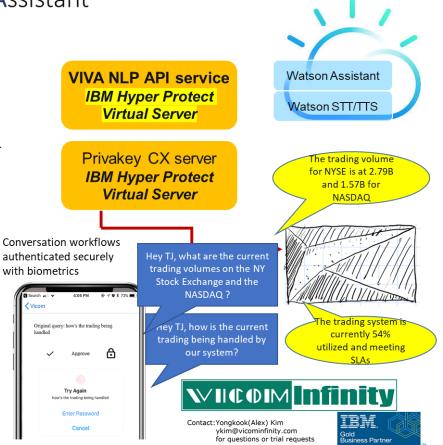
· Business problem

Voice interface gives you the freedom of not touching a device. Current consumer solutions only provide an option of storing your conversation/voice data in a public cloud where you don't own the security controls nor meet the strong requirements for the enterprise.

• Solution

Developed with maximum security in mind, Vicom Infinity Voice Assistant will store your conversation on the IBM Hyper Protect Virtual Server (HPVS) protected by FIPS 140-2 Level 4 HSM device and using IBM Watson, the secure API Gateway for your Enterprise Applications, will enable most applications to be conversational.

- Secure & Enterprise-ready Voice Assistant gives freedom of processing your business conversation securely using Voice User Interface, powered by IBM Hyper Protect Virtual Server, IBM Watson, and Privakey for biometric authentication.
- Our Natural Language Processor API gateway as well as Privakey CX server run on HPVS which makes using voice assistant app for enterprises easy and more secure at a very competitive cost.



Big Idea: Help enterprise systems clients to use voice user Interface(VUI) for their enterprise applications in a completely private and secure way.



Bob, Managing Director TBG Corp's Data Center Ops Grp



Tom, Sr. BUE TBG Financials Financial Advisor Group



John, IT Manager TBG Enterprise Storage Systems Group

Dr. Jones , Medical Doctor TBG Medical Center As a user, I want to understand health and capacity of our systems by voice, as well as monthly snapshot of estimated HW/SW charges Hey TJ, how is

As a user, I want to manage my customer groups asset status and daily changes via voice, securely and privately

As a user, I want to manage and understand overall storage systems QoS via voice command and get reports to my phone

As a user, I want to get a patient's medical information via voice securely and verified by my identity

Hey TJ, send me the blood pressure chart

Dow Jones

Index today?

Hey TJ, how

much storage

space is left?

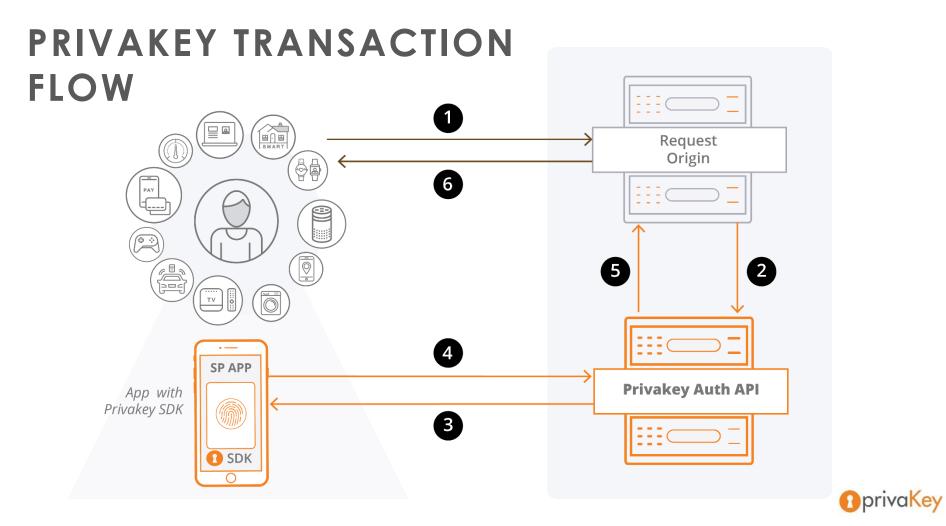
DELIVERING DIGITAL TRUST THROUGH TRANSACTION INTENT VERIFICATION

Securing high value exchanges between a service and its users with human approval



Privakey & Vicom Infinity presented at VOICE Summit July 2019

Building a Secure Voice Solution (VIVA) for Enterprise Applications in Financial Services and Healthcare



MANY POSSIBILITIES

- VOICE interfaces are a great demonstration of VIVA and Privakey technology
- Privakey enhances any workflow requiring strong identity assurance and user consent
- Consumer / retail uses for step-up approvals
 - PSD2 SCA, Fraud Alerts, Transfer Confirmations
- Enterprise use cases including workflow approvals
- Solves the security and experience paradox







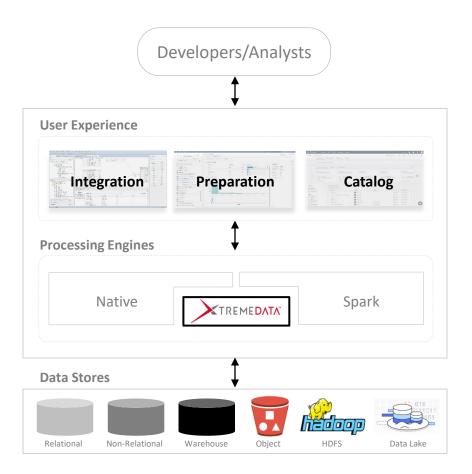




Overcome Data Wrangling for Al

Engine for zLinux

Plug-in Enabler: Turnkey Distributed SQL Engine

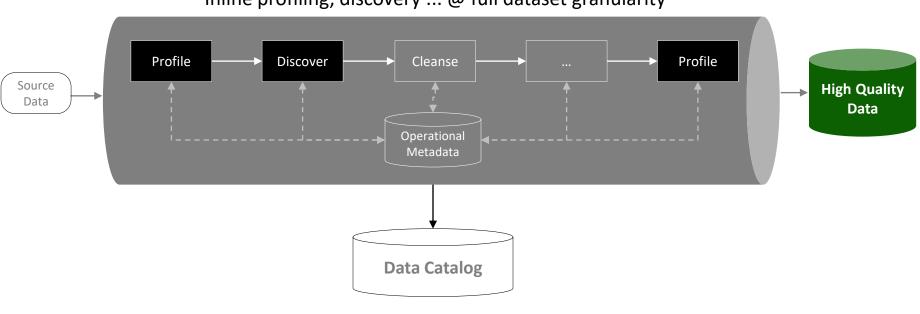


- Disruptive simplicity and performance
- No tuning, "load-and-go"
- Any complexity, size, latency ...
- MAINFRAME, cloud, desktop ...

Automated data management insights from profiling: data quality stats, schema inferencing, pattern recognition, ...

Ushers AI with Trust

... and overcomes "80-20" data wrangling issue



Inline profiling, discovery ... @ full dataset granularity

Accelerates Information Architecture

- Complete insights versus sampled data
- Infer schema (data type, precision, scale)
- Detect schema changes/drift, data anomalies ...

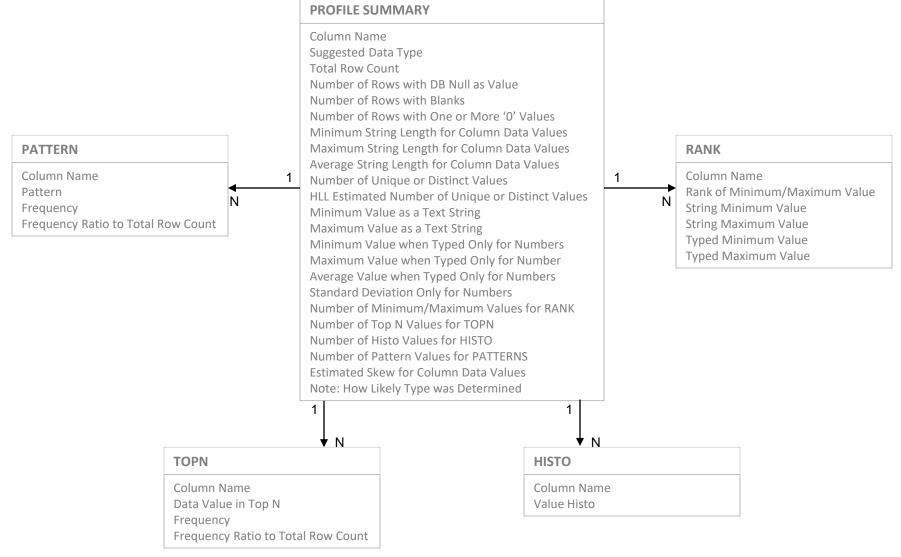
Augments governance

- Freedom from institutional/tribal knowledge
- Faster development, debugging & testing
- Continuous & proactive data quality...

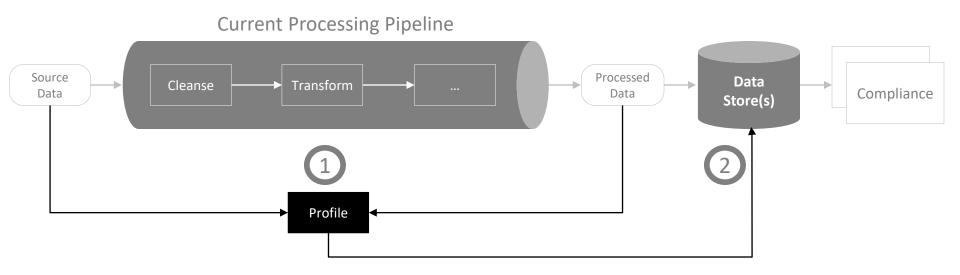
Enables AI/automation flywheel

- Processing telemetry from every job
- Deep audit trails
- Simplifies validation, reconciliation ...

Profile Results: Model & Metadata



Use Case: Banking, FSI, HLS ... Regulatory, Compliance, Audit ...



Profile source & processed data
Upload operational metadata

Benefits

- Automate validation, reconciliation ...
- Real-time trace-ability, audit-ability ...
- Reduce business risks, costs ...

IBM LinuxONE at SU

- IBM LinuxONE (Rockhopper II)
 - Fall / 2019
- Main objective / purpose
 - Support hands-on (lab) activities for campus and online students of the new MS Degree in Enterprise Data Systems (MS-EDS) at the School of Information Studies
 - MS-EDS focus areas:
 - Cloud-based environments and technologies
 - Containers, Virtual Machines, Automation, System Management
 - MS-EDS industry partner collaboration/input
 - IBM + Red Hat
 - Microsoft
 - VMware, Cisco, ...
- Additional uses:
 - Support lab activities of the MS in Applied Data Science (Big Data / AI)



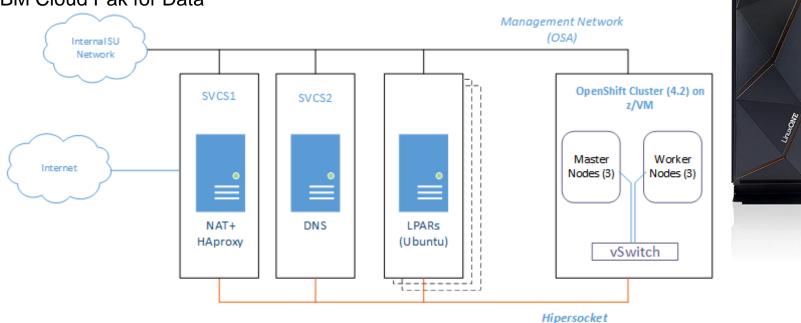




IBM

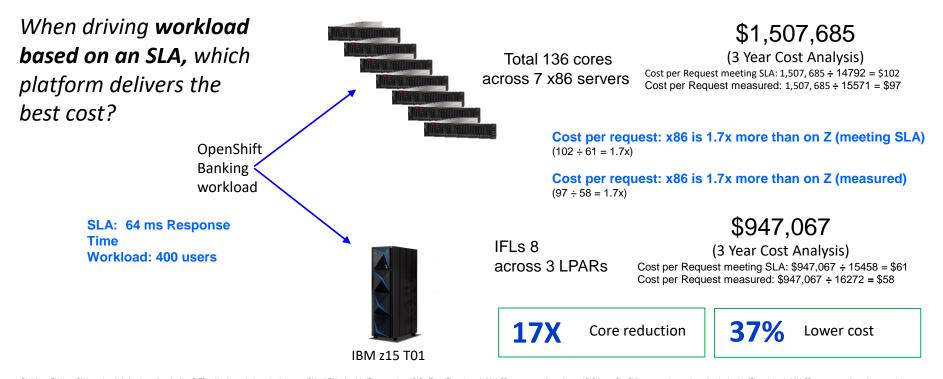
IBM LinuxONE at SU

- OpenShift Cluster (v.4.2) on z/VM
- Several network support services setup
- Future tasks:
 - IBM Cloud Pak for Data



OpenShift workloads on IBM Z run on fewer cores and cost less than on x86

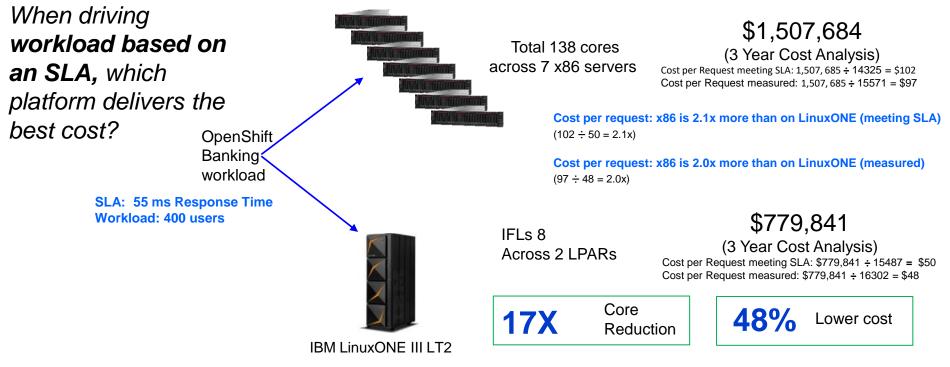
Comparison of 8 IFLs added to existing z15 T01 system versus 7 x86 servers



Disclaimer: This is an IBM internal study designed to replicate banking OLTP workload usage in the markeplace on an IBM 215 T01 using eight IFLs and a total of 512 GB memory were allocated to one LPAR there one OpenShit masters and two worker nodes. Another four IFLs and a total of 512 GB memory were allocated to a second LPAR for one OpenShit masters and two workers. One IFL and a total of 28 GB memory were allocated to a third LPAR for the OpenShit function and two workers. One IFL and a total of 212 GB memory were allocated to a second Total S0 a second Total S0 a second Total S0 as used to create eight 250 GB DASD minicisis for each of the eight 2WM guests and the remaining eighth 2VM guest was running the OpenShit function and accord soft and a second of 18 CL S. The x86 complicated is a second to create eight 250 GB DASD minicisis for each of the eight were version 4.2.5 with RH/COS and a sevent is a second to replicate across all IFLs. The x86 complicated of as second 20 Winh 15 guests (three masters and two workers) for the OpenShit fluster version 4.3.5 with RH/COS and a sevent is a total of 20 CPUs of the KVM with 15 guests (three masters and two workers) for the OpenShit fluster version 4.3.5 with RH/COS and a sevent is a total of 2.0.4 GB memory. The load balancer is a 2-socket server sortalining a mix of 6-core, t-2-core and 16-core Haseell, Style x86 processors using a total of 125 COS memory. Bode environments used Meret to diver maximum throughput against two CLTP workide advancer results (51.456 response per second REPS) with B 2 and 14.488 RPS with x80. The results were obtained under taberatory conditions, not in an actual customer environment. IBM similaria explications. Prices as of 02/12/2020 from our website and x86 hardware pricing is based on IBM analysis of U.S. prices as of 03/01/2020 from DC. Price comparison is based on a two events in total of ourseling in the customer events on the support.

OpenShift workloads on LinuxONE run on fewer cores and cost less than on x86

Comparison of new LinuxONE III system versus 7 x86 servers



Declaimer This is an IBM internal study designed to replicate banking QLTP workload usage in the markeptace on an IBM LinuxQNE III TQ2 using eight IFLs across two LPARs. Seven IFLs and a total of 46 GB memory were allocated to one LPAR for three OpenShift natesters and four worker nodes. One IFL and a total of 412 GB memory were allocated to new LPAR for three OpenShift natesters and study designed to replicate banking QLTP workload usage in the markeptace on an IBM LinuxQNE III TQ2 using eight IFLs across two LPARs. Seven IFLs and a total of 464 GB memory were allocated to one LPAR for three OpenShift natesters and four worker nodes. One IFL and a total of 128 GB memory were allocated to new LPAR for three OpenShift natesters and study designed to replicate banking QLTP workload the remaining eight z/VM guests unning the LPARs. The OpenShift cluster version 4.3.5 with RHCOS and a sevent sevent was used for the lad balancer or RHEL 7.6. For 866 storage each guest operating system was comprised of six servers running. Compared x86 models for the eight z/VM with 15 guests unning, closes to all of C2C one and 16-core Haavell, Skylake and hy Bhidge x86 purcessor using a closes to all of 236 cores with a total of 2,04 GB memory. The elaw adjant work with a total of 2,04 GB memory. Tech environments used for the level and adjant to a close closes or using a environment used processor using a close control adjant stances are all vees to exolate environments used for the level or operative environments used for the level or operative environments used for the level environments used for the level environment used and environments used for the level environment used environment used and environments used for the level environments used for the level environments used for the level environment used en

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About Vicom Infinity

Account Presence Since 1990's IBM Gold Business Partner Reseller of IBM Z and Storage Hardware, Software, and Maintenance Vendor Source for the Last 18 Generations of Mainframes/IBM Storage Professional IT Architectural Services and IBM Tier1 Services Provider Vicom Family of Companies Also Offer Leasing & Financing and IT Staffing & IT Project Management Linux Foundation Open Mainframe Project – Chair

IBM Z Champion, Academic Initiative Leader, Council Sponsor, Ecosystem Advocate, Beta Tester

Recipient of The North America IBM Z Business Partner Sales Excellence Award