

## AGENDA

- State of the Cloud Industry: Where are we today?
- Metrics that matter: How are we doing?
- The outlook ahead: What does it mean for me as a cloud CEO?


## WE'VE HAD SOME SKEPTICS ABOUT CLOUD COMPUTING THROUGH THE YEARS...


"It will be gone in two years"


## BVP's CLOUD INVESTMENTS



## THEN...

2008 - Top 10 Public Cloud Companies
(\$ in mm)
Count Company MarketCap

| 1 | Salesforce | $\$ 7,404$ |
| :--- | :--- | ---: |
| 2 | Netsuite | $\$ 2,332$ |
| 3 | Concur | $\$ 1,590$ |
| 4 | DealerTrack | $\$ 1,317$ |
| 5 | blackbaud | $\$ 1,247$ |
| 6 | AthenaHealth | $\$ 1,161$ |
| 7 | Ariba | $\$ 805$ |
| 8 | The Ultimate Software | $\$ 777$ |
| 9 | Taleo | $\$ 749$ |
| 10 | Constant Contact | $\$ 594$ |

<\$250n
Total Cloud Market Cap

## THEN...

...NOW!

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(\$ in mm)

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3
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Concur \$1,590
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Constant Contact \$594

Total Cloud Market Cap

Today - Top 10 Public Cloud Companies
(\$ in mm)

| Count | Company | MarketCap |
| :--- | :--- | ---: |
| 1 | Salesforce | $\$ 50,537$ |
| 2 | Linkedln | $\$ 26,285$ |
| 3 | Workday | $\$ 16,915$ |
| 4 | ServiceNow | $\$ 13,517$ |
| 5 | NetSuite | $\$ 7,728$ |
| 6 | The Ultimate Software Group | $\$ 4,924$ |
| 7 | Athenahealth | $\$ 4,819$ |
| 8 | Veeva | $\$ 4,186$ |
| 9 | Medidata Solutions | $\$ 3,302$ |
| 10 | Proofpoint | $\$ 2,847$ |

~\$180bn
Total Cloud Market Cap

## CLOUD REVENUE

## \$5.6bn

## 2008

## CLOUD REVENUE UP 10X IN LAST SIX YEARS



## CLOUD REVENUE UP 10X IN LAST SIX YEARS PROJECTED TO GROW OVER 2X IN NEXT FOUR



## SAAS APPROACHING 30\% OF APPLICATION SPEND



## THE FIRST CATEGORY HAS FALLEN: CLOUD CRM IS AT A TIPPING POINT

Over 50\% of CRM revenue will be cloud In 2016...
...and Salesforce is already the market share leader!



Source: IDC, Worldwide Enterprise Application Spend by SaaS and On-Prem, 2013-2018. Gartner Worldwide CRM Spending By Vendor, 2013.

## 2015 CRM BATTLE - CLOUD 1 : ON PREM 0



## WE'RE JUST SEEING THE TIP OF THE ICEBERG!



Source: Gartner, estimates per 2013. Cloud spend of $\$ 39 \mathrm{bn}$ includes SaaS, PaaS and laaS. Overall IT spend of $\$ 1.428 \mathrm{tn}$BESSEMER
includes Data Center Systems, Enterprise Software and IT Services

## 300 UP AND COMERS IDENTIFIED IN THE CLOUDSCAPE...



Originally published in 2014. Updated versions will be available at www.bvp.com/cloud

## ... 28 OF WHICH HAVE GROWN INTO PRIVATE CLOUD \$1B* BUSINESSES ...

\$ in bn


## THE CLOUD INDUSTRY HAS OUTPERFORMED

BVP Cloud Index Performance In the Last 3 Years


BVP Has Funded...

10 Representing
IPOs in BVP Cloud
Index
~\$40bn
Representing
~1 /4
Public Cloud Market Cap

Of the 42 Public Cloud Companies

## STRONG BVP CLOUD INDEX PERFORMANCE IN LAST YEAR

BVP Cloud Computing Index
42 Publicly Traded Cloud Companies


42 Pure Play Public
Cloud companies

## fill shopify

—BVP Cloud Index ——Nasdaq Index ——S\&P Index ——Dow Jones

Source: 42 companies in BVP Cloud Index as of 5/29/2015. CapIQ. Legacy software includes Microsoft, IBM, Oracle, Cisco, SAP, HP, EMC, Adobe, Citrix, ADP

## BVP CLOUD INDEX EXPECTED TO 3X IN 5 YEARS

## Public Cloud Market Cap



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## PROFITS \& CASH FLOW ARE ULTIMATELY KING

## For All Types of Businesses...



## SIX KEY CLOUD VALUATION METRICS



## ARR AND ARR GROWTH ARE BEST LEADING INDICATORS

## Inevitably growth decelerates with scale

Public Cloud Company Runrate Revenue


Public Cloud Company YoY Growth


## CAC PAYBACK

## Resulting P\&L for 3 companies growing at 50\% new bookings with different CAC paybacks



Year 1 Year 2 Year 3 Year 4 Year 5


Total cash burn: \$53M


Year 1 Year 2 Year 3 Year 4 Year 5

2 Yr CAC Payback
Total cash burn: \$106M


Year 1 Year 2 Year 3 Year 4 Year 5


## CAC PAYBACK

## CAC payback and retention are inter-related - strong upsell can counteract high churn



## CLOUD METRICS THAT PUBLIC AND PRIVATE INVESTORS ARE VALUING TODAY



Retention / Upsell

CAC Payback
\% Gross Margin
Burn Rate / FCF

## GROWTH IS THE BIGGEST DRIVER OF CLOUD VALUATION


$+10 \%$ Growth Results in +1.5x Rev Mult


Private Cloud Companies
$+10 \%$ Growth Results in +0.6x Rev Mult
1 Yr Forward Growth vs ARR Mult


## RETENTION IS TYPICALLY THE 2ND MAJOR DRIVER ON VALUATION

## 2015 - Public Cloud Companies



## PRIVATE MARKETS ARE LESS FOCUSED ON RETENTION RATES IN CURRENT ENVIRONMENT



2015 - Private Cloud Companies


## STRONG BVP CLOUD INDEX PERFORMANCE IN LAST YEAR

BVP Cloud Index up $\sim 40 \%$ in the last year...

## BVP Cloud Computing Index

## 42 Publicly Traded Cloud Companies



[^0][^1] NTM represents next twelve months.

## BVP CLOUD INDEX GROWTH DRIVEN FROM ORGANIC GROWTH NOT MULTIPLE EXPANSION

BVP Cloud Index up $\sim 40 \%$ in the last year...
BVP Cloud Computing Index

...Cloud multiples back down to historical averages


[^2] NTM represents next twelve months.

## PRIVATE CLOUD MULTIPLES ARE TRADING AT A PREMIUM TO PUBLIC CLOUD MULTIPLES



## TAKEAWAY: GUARDRAILS FOR VALUATION

## Representative SaaS Business (\$20mm ARR)



| 1 Yr Fwd Growth |
| :---: |
| Gross \$ |
| Retention |
| Upsell Retention |
| CAC Payback |

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## THE OUTLOOK AHEAD

- The Cloud Wins
- First category (CRM) goes over 50\% cloud in 2016
- Now at 42 public cloud companies in BVP Cloud Index - Welcome Shopify!
- BVP Cloud Index crosses $\$ 500$ bn by 2020
- Major Trends \& Coming Disruptions
- Industry cloud comes of age
- Cyber security a threat and an opportunity
- B2D opportunity for developers and entrepreneurs
- Further commoditization of laaS
- Cornered animals: More M\&A from legacy vendors ahead
- The dawn of enterprise mobile


## INDUSTRY CLOUD ON THE RISE



Source: Capital IQ

Note: Public vertical SaaS companies include 2U, Athenahealth, Benefitfocus, Dealertrack Technologies, Fleetmatics Group, RealPage, Textura, Veeva, Q2 Holdings, Opower, Guidewire, Shopify

## Drivers of Industry Cloud

1 Software adoption moved from "nice to have" to "table stakes"

2 Winner take most dynamic - can win 50\% of a market

3 Mobile expands the non-desk workforce by $\mathbf{8 0 \%}$

Notable Private Industry Cloud Companies

+ClearCare PRORORE evariant coursera

BrightBytes
๑INSTRUCTURE :2it rootstock
-Anaqua


## CYBER SECURITY: A HOT MARKET AND A KEY

## Security for Startups: 10-Step Plan to Surviving in Cyberspace

If a business thinks that it's too small to matter to cybercriminals, then it's fooling itself with a false sense of security." BRIAN BIRCH, SYMANTEC

Pick Your Battles
You can't secure everything. Quantify the monetary damage, likelihood and mitigation cost of each threat to prioritize your time and resources.

THREATS

- TOR Dump Email
-Insert Back Doors
Infect Customers
DDoS Shut Down
-Steal Credentials
-Steal Funds
- Steal IP
- Steal Business Intel
-Steal Infrastructure
- Deface Web Site
- Defraud

Establish a Security Culture
Show your team that security is important through communication and example. Provide periodic training, pen testing, and password management tools.

## Pick Secure Platforms

Select compute platforms with strong security such as Linux Chromebooks, IOS, Google Apps and open source systems.


## Be Open with the Public

Honesty is the best policy. Be transparent not only about cyber risks, but also about everything. You will provoke fewer attacks and build up some good will for when you screw up.

## Plan for Failure

Breaches are inevitable, so don't wait. Understand
your legal obligations and business risks. Prepare a
plan to investigate, report and mitigate breaches.

Physical Security
Easy win. It's now cheap to equip offices with buzzers badges and surveillance.
"Cyber attacks have escalated from common malware to sophisticated campaigns using military-grade techniques that target your crown jewels." DAVID COWAN, BVP

Email is the Key
Control an inbox, and you control a life. Your email service should enforce multi-factor authentication, malware/phishing filters and encryption. Use SPF and DKIM.

7 Control the Internal Network
Track every IT asset. Install securely configured images on all computers. Lock down all Admin accounts. Use a DMZ Proxy and light SIEM. Automate patching Encrypt and test your backup systems.
"When our API collapsed under a DDoS attack, we experienced more churn in that one day than we had in our entire history." UN-NAMED BVP PORTFOLIO CEO

Your Website is the Front Door Protect your storefront and customers with a Web Application Firewall, anti-DDoS service, Device ID and payment API.

6 Secure Coding
Bake it in now - retrofits won't work. Hire a DevOps security expert. Train your coders to avoid traps, and use code analysis tools and third party security APIs.

## B2D MARKET TAKING OFF

## 20 MILLION GLOBAL SOFTWARE DEVELOPERS



## FURTHER GROWTH OF IAAS - GREAT FOR SAAS



Pinterest


## MORE M\&A AHEAD

## Legacy Software vendors are cornered animals today



- Classic Innovator's Dilemma allowed cloud entrants to thrive
- Too late to build
- Too expensive to buy
- Will be fatal to many


## MOBILE IS A GAME CHANGER FOR THE ENTERPRISE

## EVERYONE IN ENTERPRISE B2B NOW HAS A SMARTPHONE

85\%

## GLOBAL PENETRATION

$$
1 \text {-> 73\% }
$$

Americans between 18-29

## INTERNET USAGE TIPPED TO MOBILE

## 50\%

Internet usage on mobile vs desktop

REACHES AN UNTOUCHED WORKFORCE

## 80\%

Workforce are non-desk workers

## THE MOST EXPENSIVE REAL ESTATE IN THE WORLD



[^3]Uber - 450k WAU, 900k MAU (assume WAU x $2=$ MAU) as of $12 / 2013$. Valuation of $\$ 3.5$ bn as of $08 / 2013$
Snapchat - 30m MAU at \$10bn valuation as of 08/2014
Whatsapp - 450m MAU at \$19bn valuation as of 02/2014
Instagram - 30m MAU at \$1bn valuation as of 04/2014

## THE MOST EXPENSIVE REAL ESTATE IN THE WORLD



Note: Assume each mobile icon is $1 / 2$ " (so 1 sq ft is equal to 576 mobile icons). Assume MAU is equal to mobile app installs.
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## ENTERPRISE MOBILE HAS MORE MONETIZATION POTENTIAL THAN CONSUMER MOBILE

There are 10x more consumer apps than enterprise...
\# of Apps in IOS
(units in 000s)


2 ...but enterprise apps are exploding

- \# of enterprise mobile apps growing over 210\% in 2014
- $20 \%$ of all developers globally are targeting enterprises, up from $16 \%$ just six months ago
...and enterprise apps have higher monetization potential



## ENTERPRISE MOBILE WILL DISRUPT CLOUD

Become great on mobile, or your next challenger will!


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- Our awesome partners @ Bessemer Venture Partners, Salesforce Ventures, \& Salesforce.com
- To download BVP content: www.bvp.com/cloud
- BVP Cloud Industry Report www.bvp.com/cloudreport
- BVP Cloud Index @ www.bvp.com/cloud/comps
- BVP Cloudscape @ www.bvp.com/cloud
- BVP Industry Software Revolution @ www.bvp.com/cloud
- BVP Security for Startups - 10 Step Cybersecurity Plan @ www.bvp.com/cyber

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