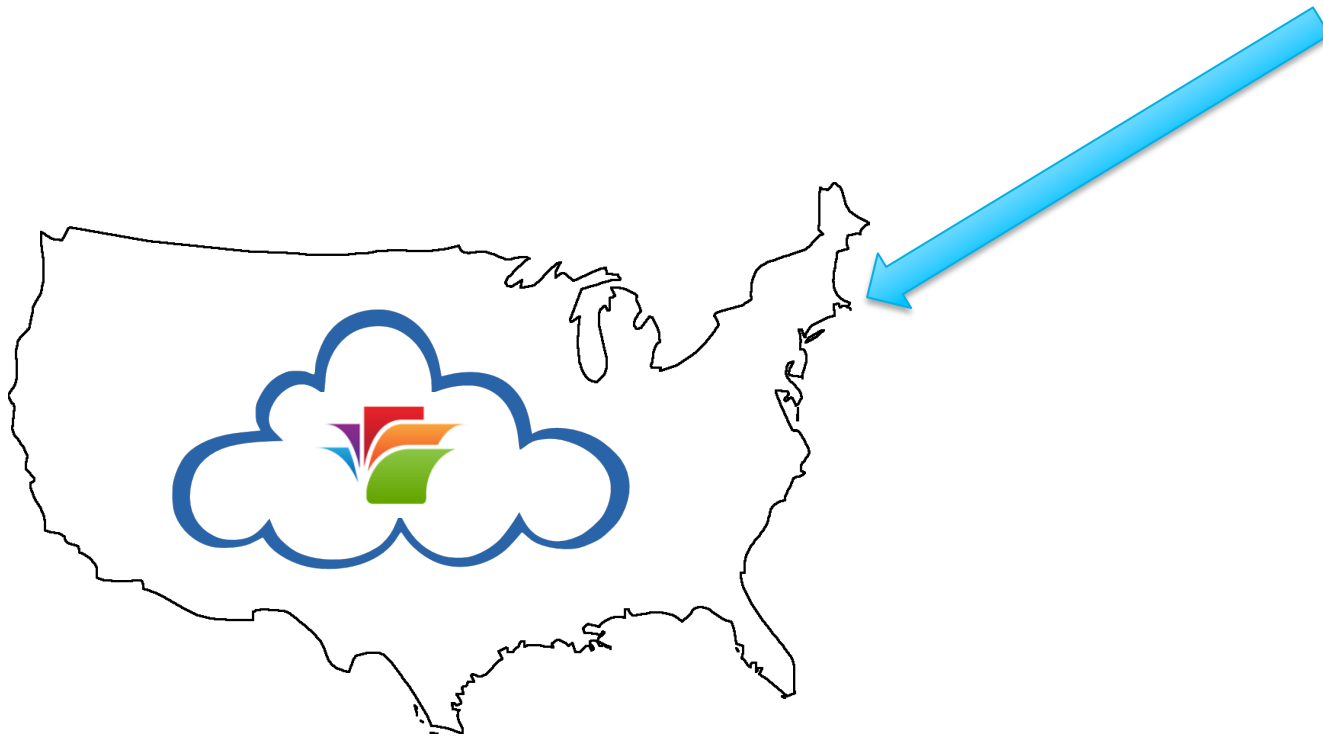


Head in the clouds,
feet on the ground



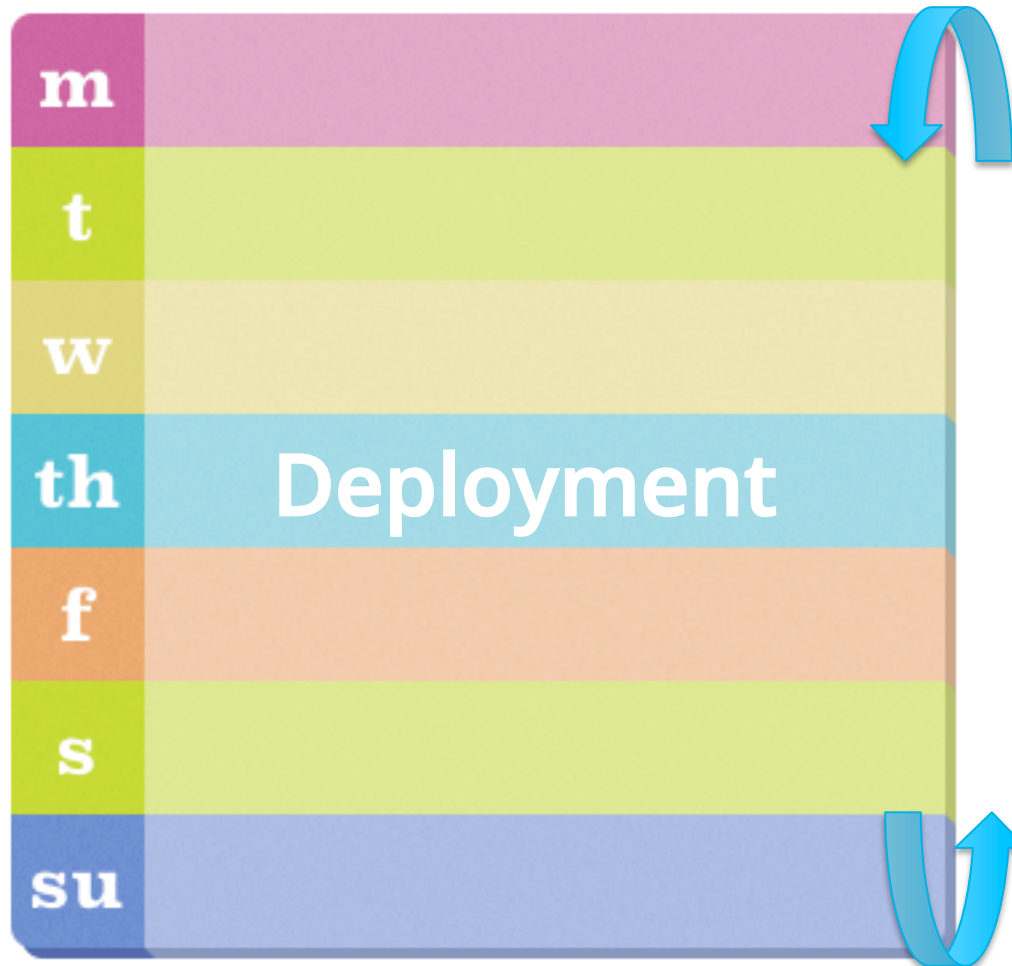
Zdeněk Samuel

Kerio Technologies



Almost 100 computers
(physical or virtual)

Samepage.io - Release cycle





Internal environment



Private cloud



Private cloud

- All services in one virtual machine
- Every developer / tester has own cloud
- Easy to deploy / update
- ISO and updates produced by Teamcity
- Used for automated tests



```
root@samepage-generic-appliance:~# samepage-upgrade-node
```

- Minimal copy of production cloud
- Deployment tests according to deployment steps
- Functional / regression tests
- Updates from release branch



Sandboxes





Production environment



Feature flags

- Enables feature for limited amount of users
- QA → Kerio → Early Access → All users

NOTIFICATIONS FROM KERIO TECHNOLOGIES

Receive notifications by email:

Comments from all pages


Comments from followed pages

Don't receive any notifications

Close

NOTIFICATION SETTINGS

Receive notifications about comments by email
or on your iOS device:

 Kerio Technologies

From all pages

From followed pages

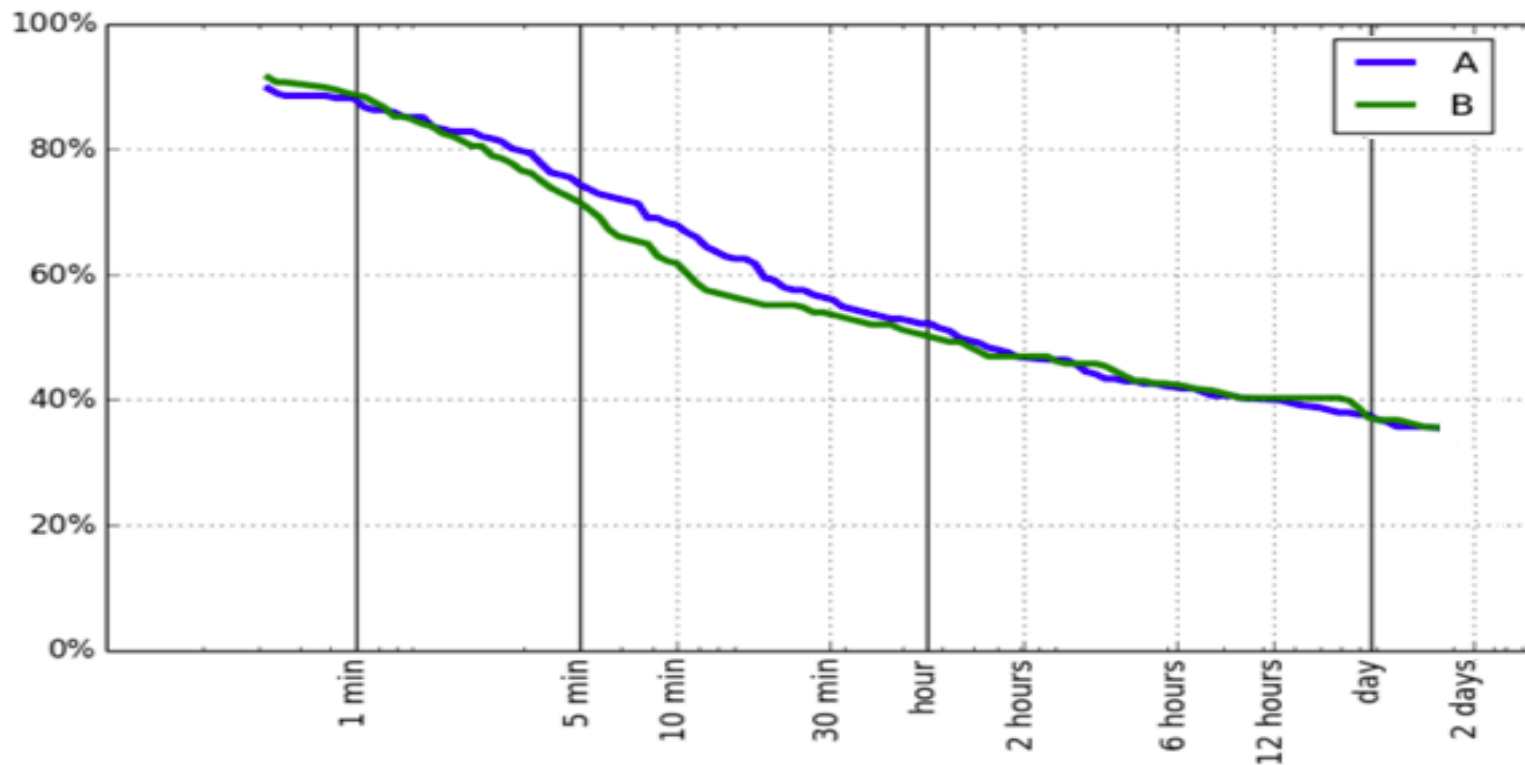
Don't receive notifications

Emails from Kerio Technologies will be sent to:
zsamuel@kerio.com — [Change](#)

Close

A/B Testing

- To compare more variants
- Feature Flag for x% of users



Autotest unit

- Part of cloud infrastructure
- Deployment tests



Test Results (32 tests)		
● Install samepage-puppet	2014-09-10 21:19:28	00:00:19
● Install Management	2014-09-10 21:19:48	00:03:21
● Install Zookeeper	2014-09-10 21:23:10	00:00:26
● Check Zookeeper	2014-09-10 21:23:37	00:00:00
● Install DB unit	2014-09-10 21:23:38	00:00:41
● Check App Db	2014-09-10 21:24:19	00:00:11
● Install SMTP unit	2014-09-10 21:24:30	00:00:20
● Check SMTP unit	2014-09-10 21:24:51	00:01:13
● Install swift unit	2014-09-10 21:26:05	00:01:27
● Check Swift	2014-09-10 21:27:32	00:00:17
● Install Cassandra	2014-09-10 21:27:50	00:00:30
● Check Cassandra	2014-09-10 21:28:21	00:00:04
● Install Application	2014-09-10 21:28:25	00:01:11
● Check Application	2014-09-10 21:29:36	00:01:32
● Install Registrator	2014-09-10 21:31:09	00:00:12
17 more...		

Master branch in production

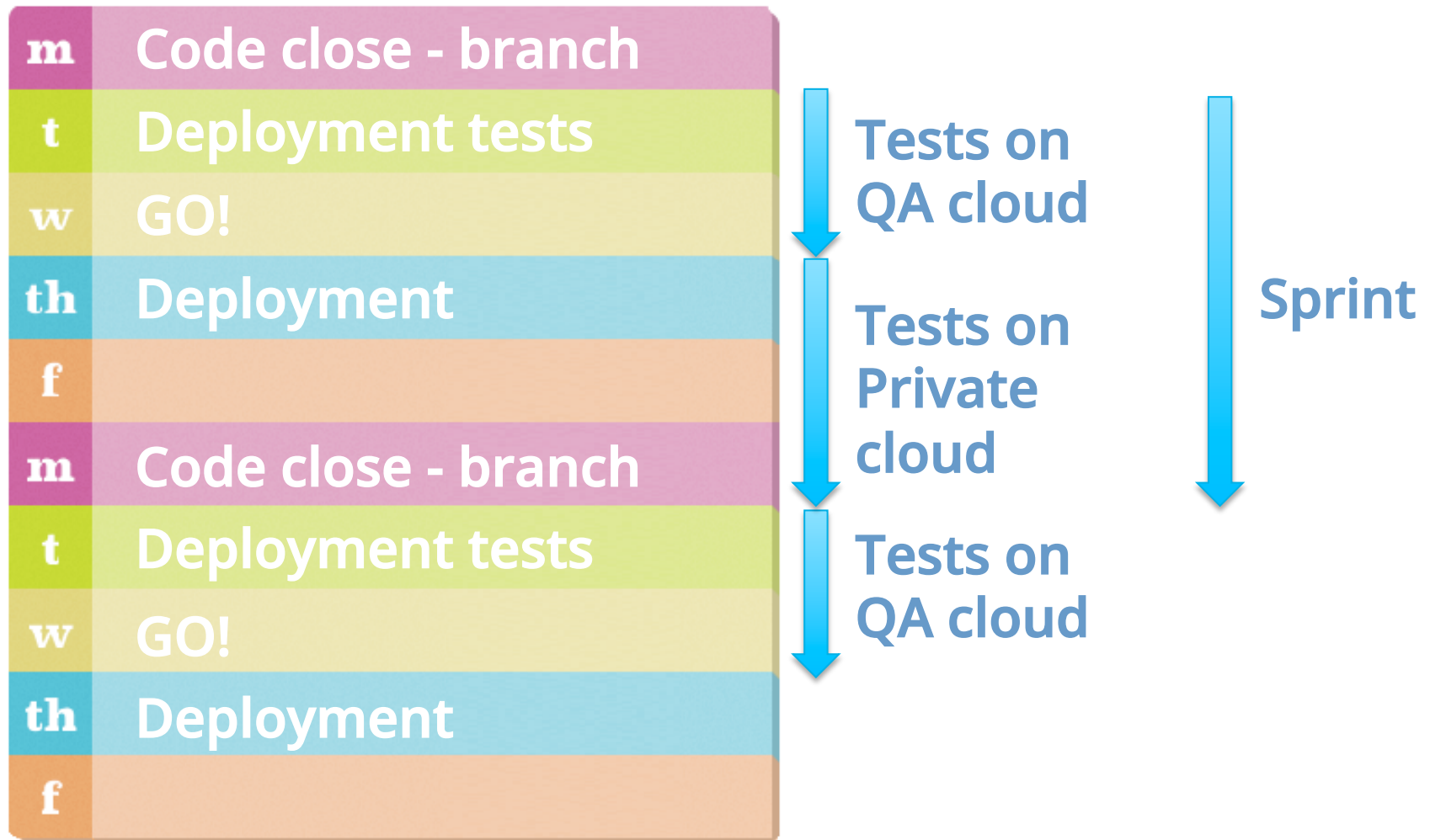
- Troubles with testing vs. real data
- New feature with production data
- For web only, no DB changes

Cloud Performance

- API calls' analysis
- CPU time, number of DB transactions ...
- Trends, changes

	Mix	Cpu	Real	Dbt	Stc	Txc	Fri Aug 15 2014	Without Extr	All but robo	All but kerio
	Method	Count	Real Ø [ms]	Cpu Ø [ms]	Db Ø [ms]	Real Max [ms]	Cpu Max [ms]	Db Max [ms]		
1	Stats.save	3498	6	2	1	14	3	6		
2	Items.get	3473	36	13	5	83	29	22		
3	Activities.getItemStream	2779	51	19	6	348	120	73		
4	Members.get	2320	19	7	2	39	11	8		
5	Items.getList	2313	33	9	5	107	26	36		
6	Bootstrap.bootstrap	1286	42	9	3	86	15	32		
7	GlobalSettings.detectTimezone	1042	0	0	0	0	0	0		
8	GlobalSettings.getTenantInfo	502	18	4	2	70	10	20		

Sprint



Head in the cloud ...

- Simple deployment
- Feature flag
- New features with real data
- Collect data

...feet on the ground



The background of the slide features a complex, abstract pattern of curved lines and small squares, resembling a stylized architectural plan or a data visualization. The pattern is composed of various shades of gray and white, creating a sense of depth and movement. The lines are mostly curved, following a circular or semi-circular path, and the squares are scattered throughout, some appearing as solid shapes and others as outlines. The overall effect is a modern, geometric aesthetic.

Thank you for attention