

2019
Atlassian
User
Conference
Finding
The Better Way
from Best Practice



Global 개발 환경과 안정성 확보를 위한 Bitbucket Datacenter 도입 사례

| SK하이닉스 조성범TL



2018F Top 15 Semiconductor Sales Leaders (\$M, Including Foundries)

2018F Rank	2017 Rank	Company	Headquarters	2017 Total Semi Sales (\$M)	2018F Total Semi Sales (\$M)	2018F/2017 % Change
1	1	Samsung	South Korea	65,882	83,258	26%
2	2	Intel	U.S.	61,720	70,154	14%
3	4	SK Hynix	South Korea	26,722	37,731	41%
4	3	TSMC (1)	Taiwan	32,163	34,209	6%
5	5	Micron	U.S.	23,920	31,806	33%
6	6	Broadcom Ltd. (2)	U.S.	17,795	18,455	4%
7	7	Qualcomm (2)	U.S.	17,029	16,481	-3%
8	9	Toshiba/Toshiba Memory	Japan	13,333	15,407	16%
9	8	TI	U.S.	13,910	14,962	8%
10	10	Nvidia (2)	U.S.	9,402	12,896	37%
11	12	ST	Europe	8,313	9,639	16%
12	15	WD/SanDisk	U.S.	7,840	9,480	21%
13	11	NXP	Europe	9,256	9,394	1%
14	13	Infineon	Europe	8,126	9,246	14%
15	14	Sony	Japan	7,891	8,042	2%
—	—	Top-15 Total		323,302	381,160	18%

(1) Foundry (2) Fabless

Source: Company reports, IC Insights' Strategic Reviews database

“세계 반도체 업계 3위”



보도자료

[2019년 1월 24일]

SK하이닉스, 2018년 경영실적 발표

- 2018년 연간 경영실적
 - 매출액 40조4,451억 원, 영업이익 20조8,438억 원
(영업이익률 52%), 순이익 15조5,400억 원(순이익률 38%)
 - 2년 연속 사상 최대 경영실적 경신
- 2018년 4분기 경영실적
 - 매출액 9조9,381억 원, 영업이익 4조4,301억 원
(영업이익률 45%), 순이익 3조3,979억 원(순이익률 34%)
- 고객, 고부가가치 제품, 첨단기술 중심 경영으로 시장상황 대비

“매출 40조, 영업이익 20조 달성”

Introduction of SK Hynix

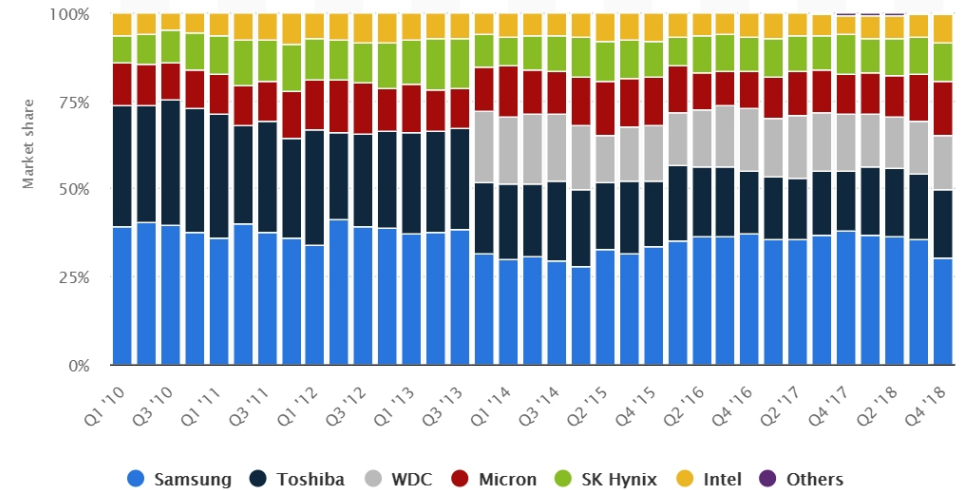
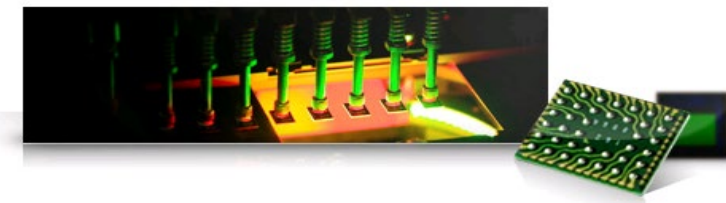
“DRAM”



“NAND Flash”



“CIS”



“DRAM 2위, NAND Flash 5위”



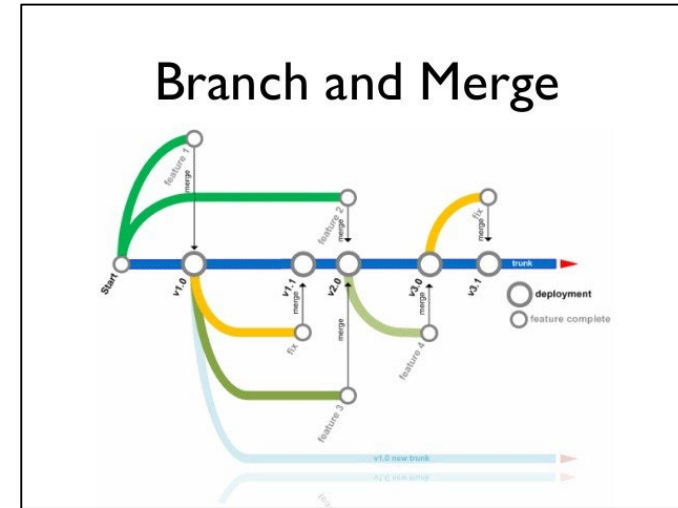
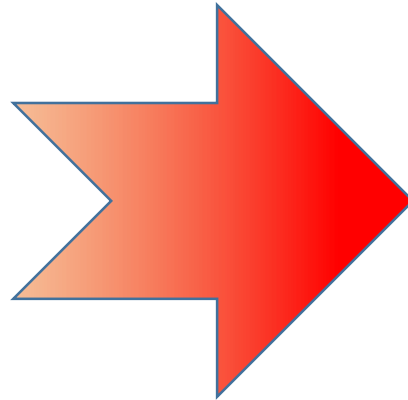
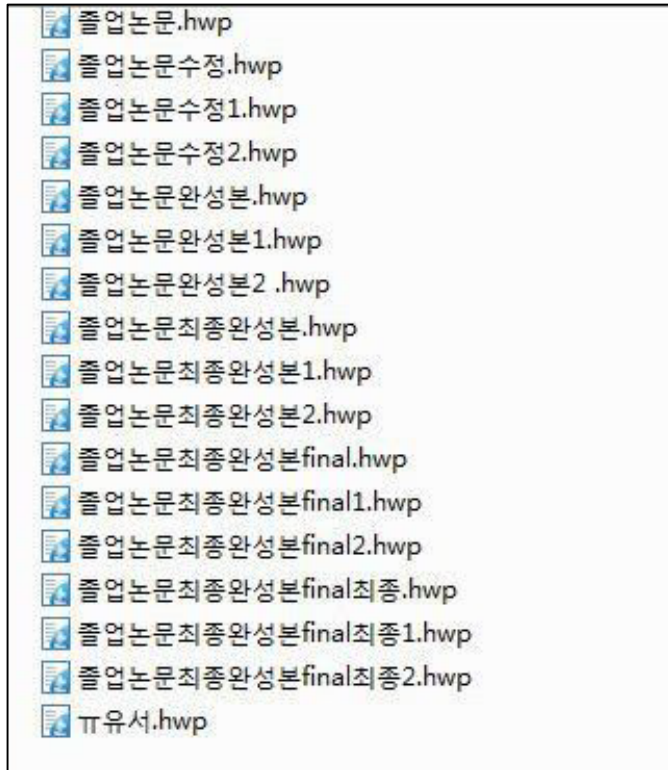
▪ SK Hynix의 솔루션 제품 개발 특징

- ✓ *Distributed Development*
- ✓ *Global Collaboration*
- ✓ *Cross-Functional*
- ✓ *Merge & Acquisition*
- ✓ *Complexity*

[목차]

- About SCM(Bitbucket)
- Why Bitbucket
- Bitbucket Server VS Data Center
- Use Case
- The difficulties
- Plan

About SCM(Bitbucket)



- 버전 관리 가능
- 개발중인 버전 및 릴리즈 버전 구분
- 리비전(히스토리)관리 기능
- Merge/Branch등 다양한 기능 활용

About SCM(Bitbucket)



GitLab



git



AWS CodeCommit



GitHub

Bitbucket : Git을 엔진으로 하는 Atlassian의 상용 툴

풀 리퀘스트

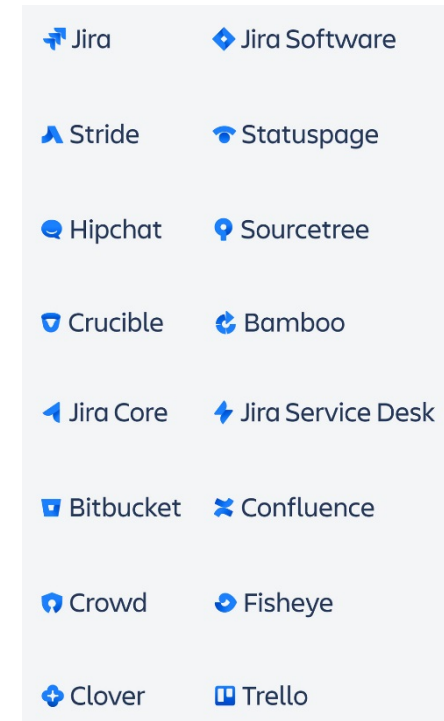
풀 리퀘스트로 코드 리뷰를 하여 더욱 높은 품질의 코드를 만들고 팀원 간 지식을 공유할 기회를 얻을 수 있습니다.

브랜치 권한

브랜치 권한은 팀에 세분화된 액세스 제어 기능을 제공하여 적합한 사람이 코드를 적합하게 변경할 수 있도록 합니다.

코드 인식 검색

정의를 최우선으로 표시하는 시맨틱 검색으로 코드 검색 결과를 일일이 살펴보느라 소요되던 시간이 절약됩니다.



Atlassian Tools와 연계

Why Bitbucket : 1. Pull Request




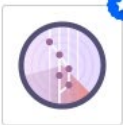







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9 9   validatorRegister.register(['min', 'max'], minOrMax); //AUI-prefixed attribute is deprecated as of 5.9.0
10 10  validatorRegister.register(['min],[max]', minOrMax);
11 11
12 12  - // Takes an input date string and related date format, and rebuilds a new date
13 13  + // by parsing the date and converting to a string using the provided date format.
14 14  + function reconstructDateMatches(date, DateFormat) {
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Why Bitbucket : 2. Add on

Bitbucket apps

202 results filtered by Bitbucket X

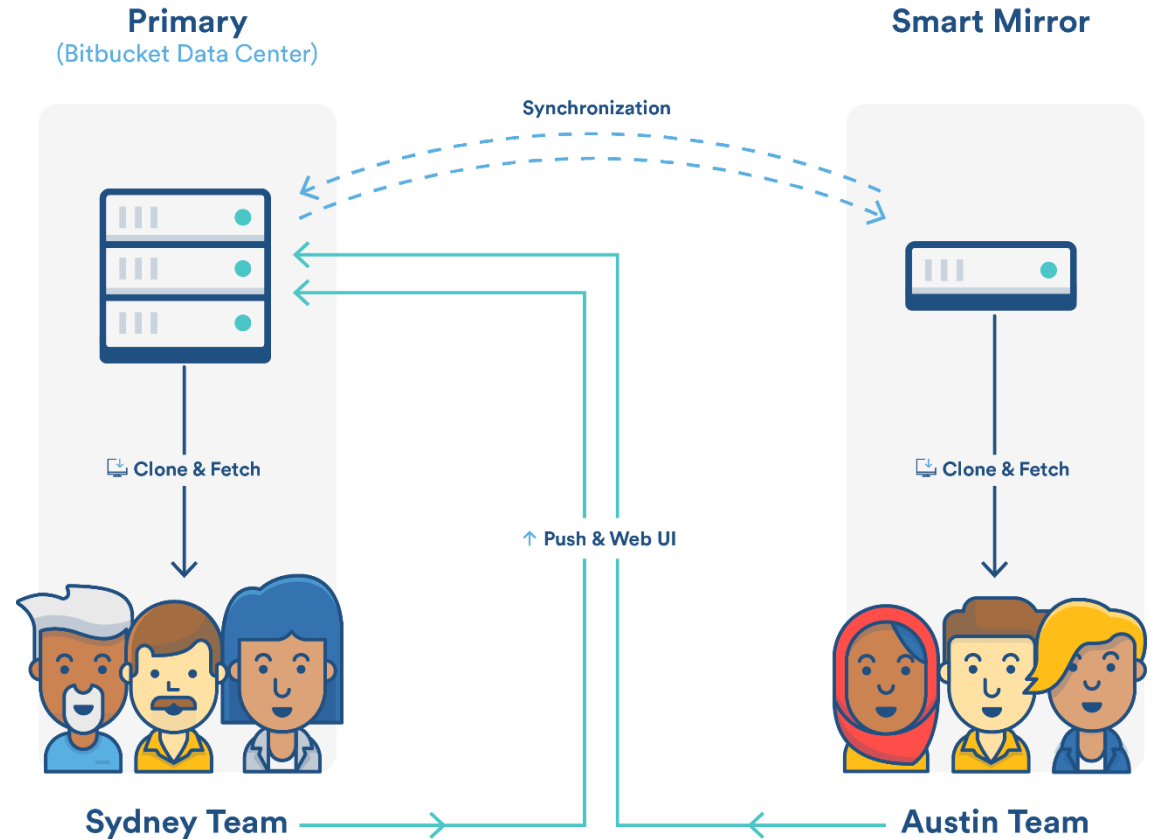
 <p>Webhook to Jenkins for Bitbucket Notify Jenkins about code commits and merges</p> <p>Build management, Continuous integration, Integr... ★★★★☆ (84) STAFF PICK</p>	 <p>Sonar for Bitbucket Server Integrates SonarQube by showing metrics, test coverage and code issues in pull requests</p> <p>Code quality, Code review, Integrations, Testing & ... ★★★★★ (29) STAFF PICK</p>	 <p>Charts & Graphs for Bitbucket Extend Bitbucket with our simple and pretty charts & graphs that let you visualize contributions, repository activity, and more</p> <p>Charts & diagramming, Reports, Utilities ★★★★★ (105) 6.3k installs</p>
 <p>Atlassian Universal Plugin Manager Browse the Atlassian Marketplace and manage apps inside your Atlassian product</p> <p>Admin tools ★★★★☆ (158) 249.1k installs</p>	 <p>Awesome Graphs for Bitbucket Server Track and monitor projects and repositories with visualized statistics. Evaluate team's performance, watch your projects evolve</p> <p>Charts & diagramming, Reports ★★★★★ (75) 2.4k installs</p>	 <p>Snippets for Bitbucket Server Easily create and share code snippets in Bitbucket Server</p> <p>Shared workflows, Source code, Utilities, Workflow ★★★★★ (21) STAFF PICK</p>
 <p>External Hooks</p>	 <p>ScriptRunner for Bitbucket</p>	 <p>SVN Mirror for Bitbucket Server</p>

Why Bitbucket : 3. GUI

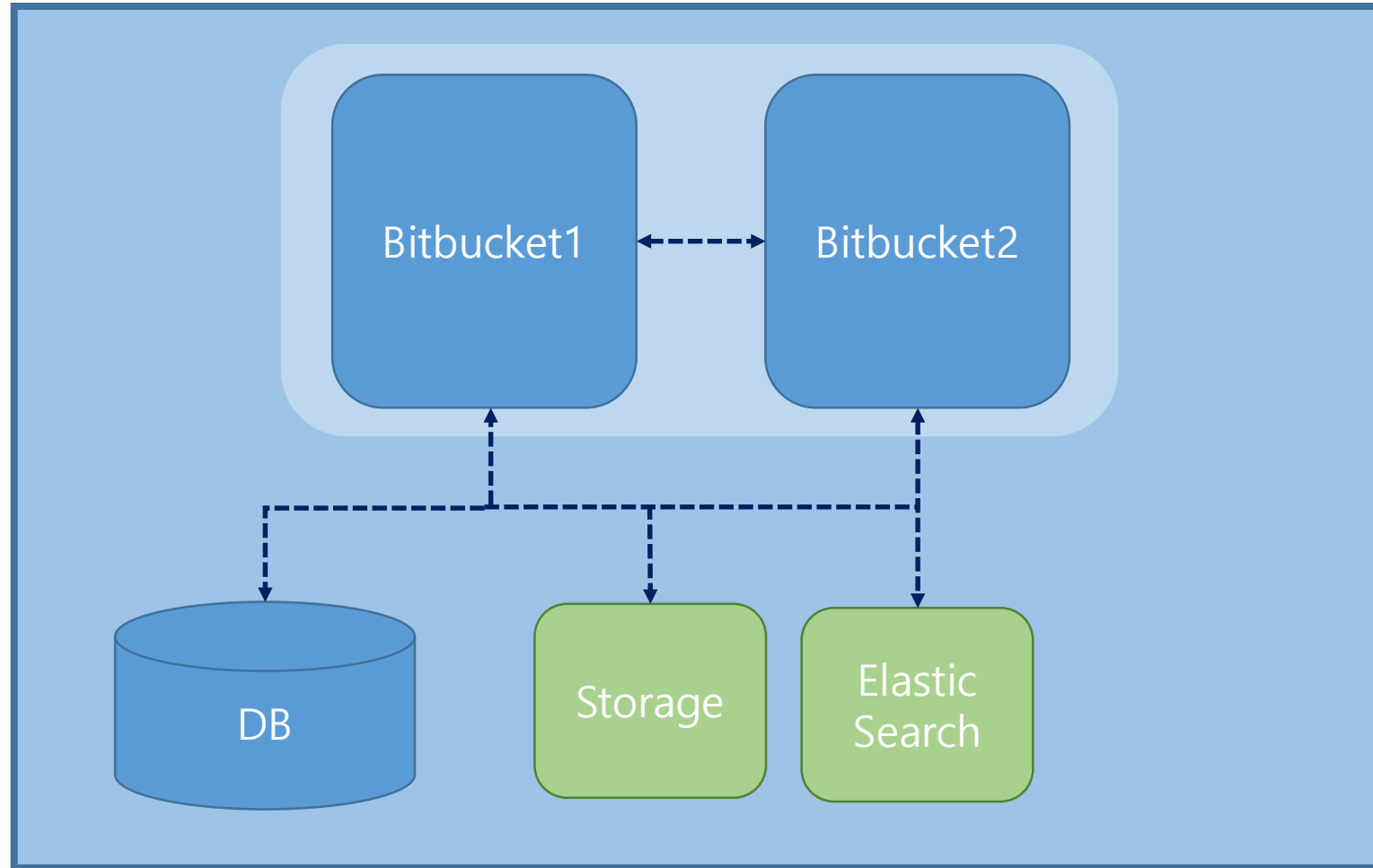
The image shows the Bitbucket Administration interface. The top navigation bar includes 'Bitbucket', 'Projects', 'Repositories', and 'People'. A search bar is present with the text 'Search for code or repositories...'. The main content area is titled 'Administration' and is divided into three columns: 'Overview', 'Accounts', and 'Settings'. The 'Accounts' column is active, showing options like 'Users', 'Groups', 'Global permissions', 'Authentication', and 'User Directories'. The 'Settings' column lists various system settings such as 'Server settings', 'Database', 'Application', 'Mail server', 'Licensing', 'Clustering', 'Mirrors', and 'Analytics'. Overlaid on the right side of the screen is a modal dialog box titled 'Add a branch permission'. This dialog has a close button (X) in the top right corner. It contains two dropdown menus: 'Branches' with a 'Branch name' dropdown, and 'Restrictions' with a 'Select branch' dropdown. Below these is the instruction 'Select the branch you want to restrict access to.' and a list of four checkboxes under 'Restrictions': 'Prevent all changes', 'Prevent deletion', 'Prevent rewriting history', and 'Prevent changes without a pull request'. At the bottom right of the dialog are 'Create' and 'Cancel' buttons.

Bitbucket Server VS Data Center

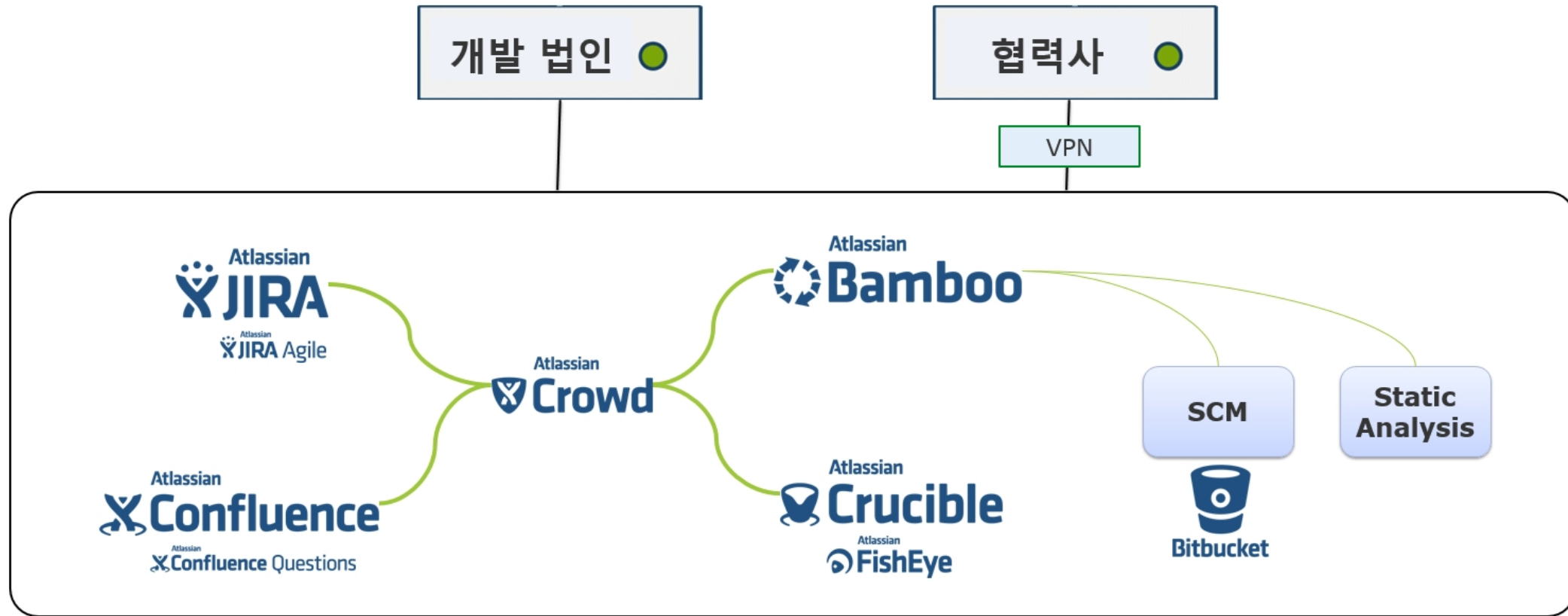
기능 비교	클라우드	서버	DATA CENTER
Git 리포지토리 호스팅	예	예	예
브랜치 권한	예	예	예
Jira Software 통합	예	예	예
프로젝트	예	예	예
API	예	예	예
타사 시스템 통합	예	예	예
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클러스터링	아니요	아니요	예
스마트 미러링	프리미엄	아니요	예
IP 인증 허용 목록	프리미엄	아니요	아니요
2단계 검증 필요	프리미엄	아니요	아니요
Mercurial 리포지토리 호스팅	예	아니요	아니요
코드 조각	예	아니요	아니요
지속적 배포 기본 제공	예	Bamboo*	Bamboo*
이슈 추적	예	Jira Software*	Jira Software*
위키	예	Confluence*	Confluence*
Trello 보드	예	아니요	아니요
Deployments dashboard	예	아니요	아니요
Enforced Merge Checks	프리미엄	예	예
풀 리퀘스트	예	예	예
액티브-액티브 클러스터링	아니요	아니요	예
재해 복구	예	아니요	예
SAML SSO(Single Sign-On)	Atlassian 액세스스로 가능	아니요	예
2단계 인증 적용	Atlassian 액세스스로 가능	아니요	아니요
비밀번호 정책	Atlassian 액세스스로 가능		
Atlassian Cloud에 대한 우선순위 지원		공개 예정	



Use Case - Structure

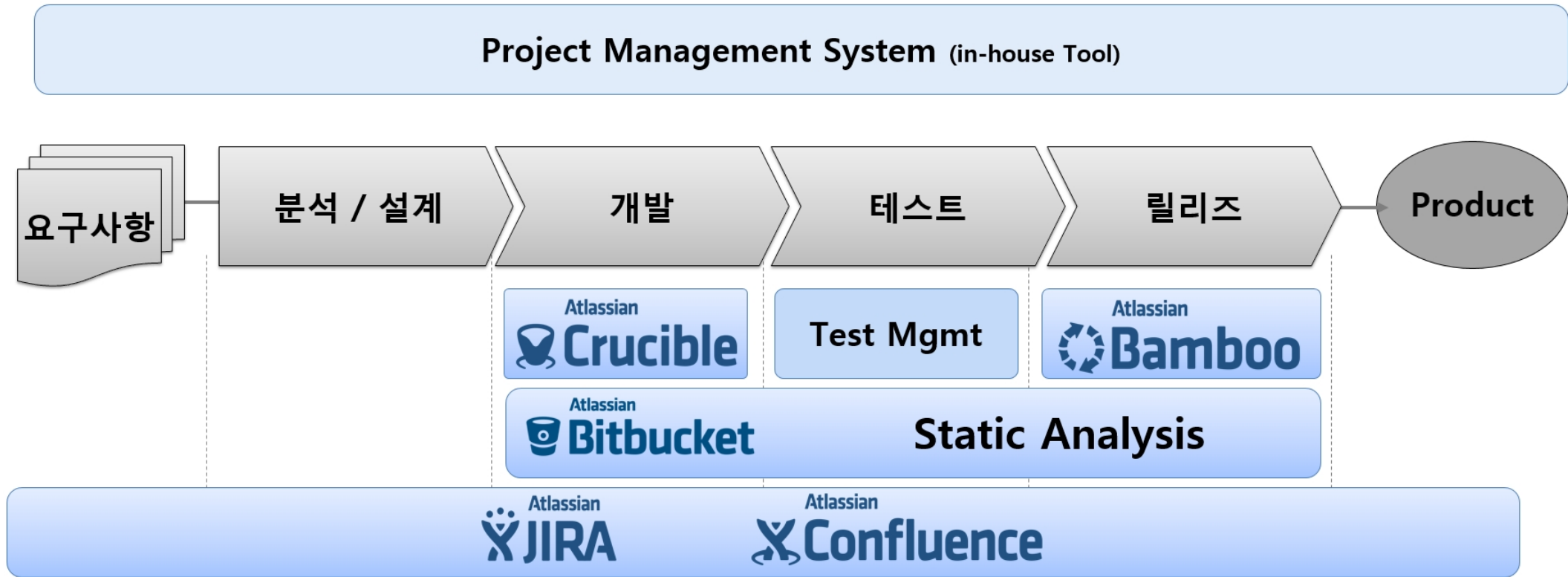


Use Case – Atlassian Integration

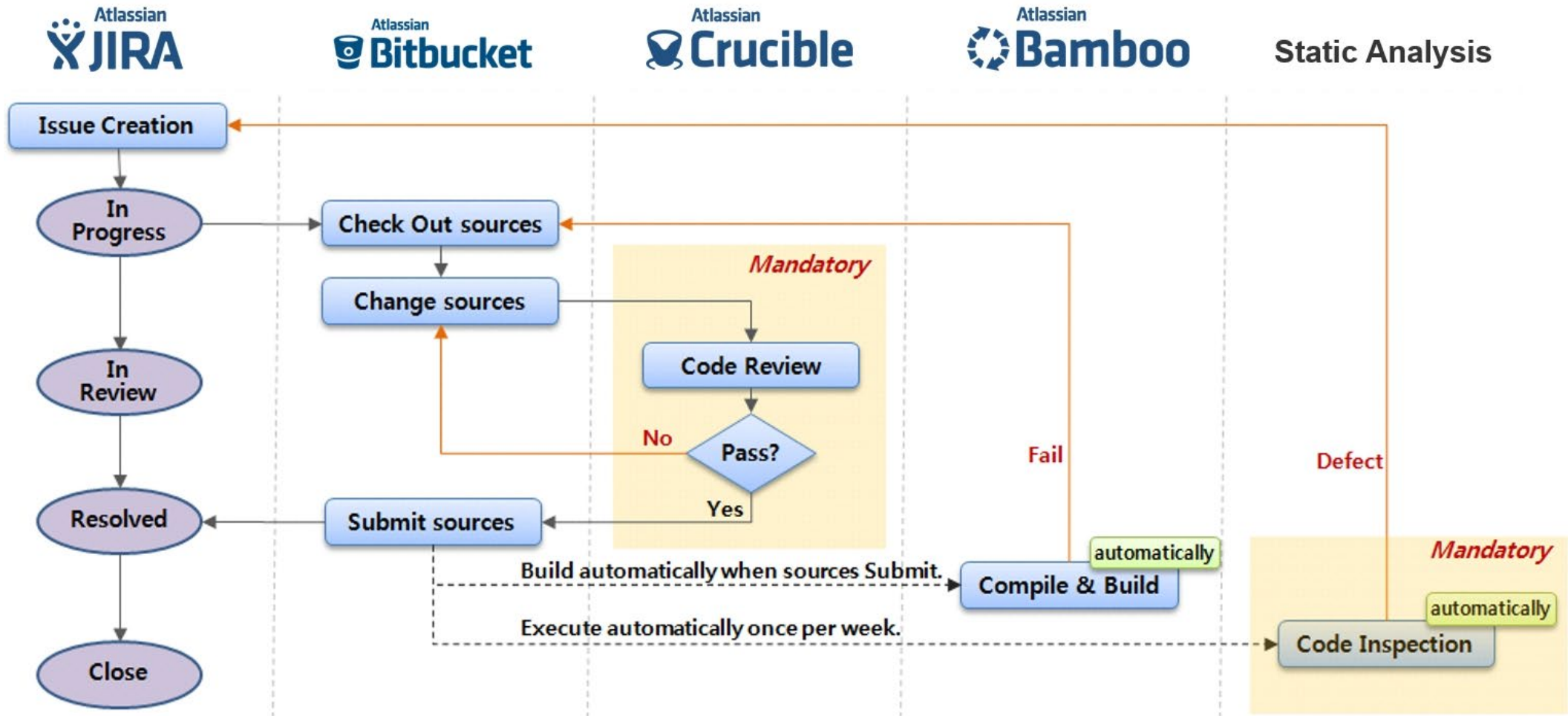


“Global Real-time Development by Atlassian”

Use Case - Tools



Use Case – Dev Flow



Use Case – 사용 Addon



Announcer for Bitbucket Server

Create and display custom announcements to your team — right within Bitb

Admin tools, Messaging, Project mana



Post Webhooks for Bitbucket

Unlimited post web hooks. Trigger after commit, PR created, updated, and merged

Continuous integration, Integrati

★★★★☆ (17)



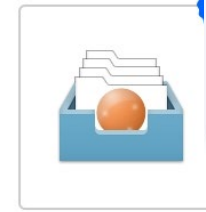
Awesome Graphs for Bitbucket Server

Track and monitor projects and repositories with visualized statistics.

Charts & diagramming, Reports

★★★★☆ (75)

2.4k installs



Categories for Bitbucket

The essential tool for organizing your Bitbucket projects and repositories

Admin tools, Document management

★★★★☆ (17)

264 installs

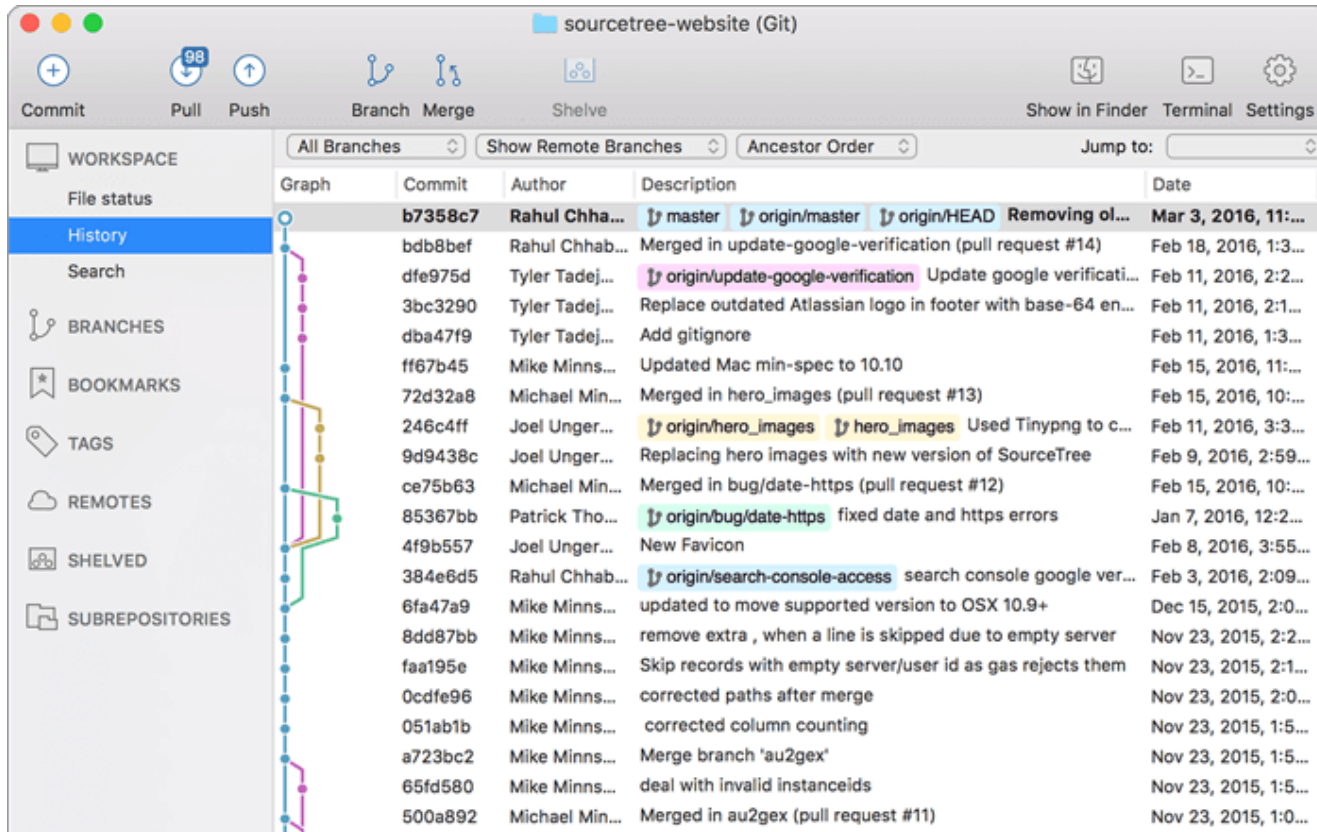


SU for Bitbucket

Be the user you seek

Admin tools

94 installs



[Source Tree]

- 현존하는 무료 Git Client중 거의 가장 강력
- Bitbucket이 아니어도 활용 가능
- Branch, Merge 등 대부분 기능 지원
- 직관적인 GUI
- **Tool이 상당히 무겁고 느림**
- **Diff 기능이 상대적으로 약함**

Bitbucket apps

202 results filtered by Bitbucket X

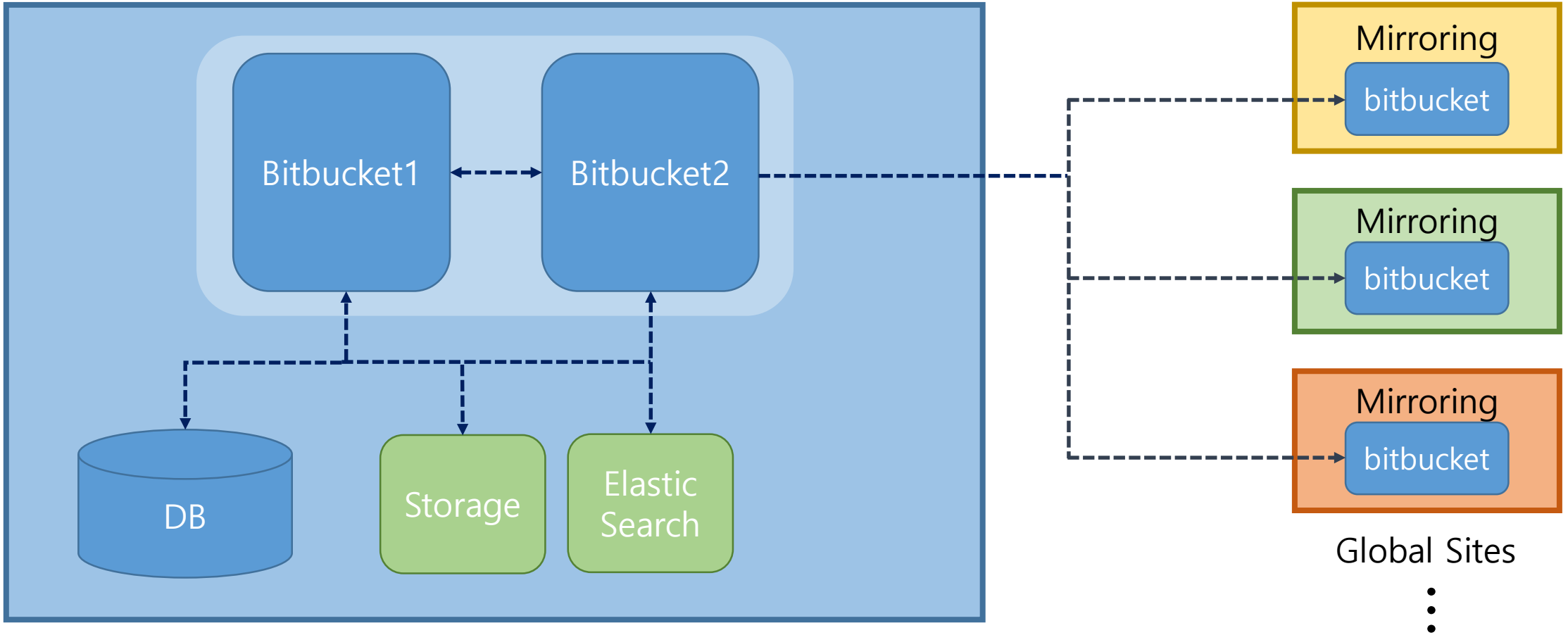
The screenshot displays a grid of Bitbucket add-on cards. Each card includes an icon, the app name, a brief description, a star rating with the number of reviews, and a 'STAFF PICK' badge. The apps shown are:

- Webhook to Jenkins for Bitbucket**: Notify Jenkins about code commits and merges. (84 reviews, 4 stars)
- Sonar for Bitbucket Server**: Integrates SonarQube by showing metrics, test coverage and code issues in pull requests. (29 reviews, 5 stars)
- Charts & Graphs for Bitbucket**: Extend Bitbucket with our simple and pretty charts & graphs that let you visualize contributions, repository activity, and more. (105 reviews, 5 stars, 6.3k installs)
- Atlassian Universal Plugin Manager**: Browse the Atlassian Marketplace and manage apps inside your Atlassian product. (158 reviews, 4 stars, 249.1k installs)
- Awesome Graphs for Bitbucket Server**: Track and monitor projects and repositories with visualized statistics. Evaluate team's performance, watch your projects evolve. (75 reviews, 5 stars, 2.4k installs)
- Snippets for Bitbucket Server**: Easily create and share code snippets in Bitbucket Server. (21 reviews, 5 stars)
- External Hooks**: (No reviews shown)
- ScriptRunner for Bitbucket**: (No reviews shown)
- SVN Mirror for Bitbucket Server**: (No reviews shown)

[Add on]

- 다양한 Addon이 있는것은 좋지만 꼭 필요한 기능이 빠져있는 느낌..
- **Graph, 프로젝트 카테고리화..**

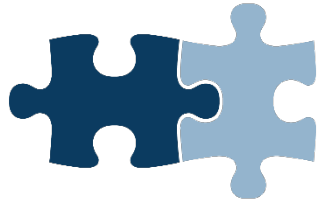
Plan



Benefit of Bitbucket



Git(개발자 선호도 ↑)



Atlassian Integration



Pull request



Usability(운영자 & 개발자)





감사합니다.

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Solution Partner
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