GitLab

The One DevOps Platform

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Agenda

- Gitlab 소개
- 주요 에디션 및 기능들

GitLab 은 Enterprise 시장에서 가장 빠르게 성장하는 SW 기업입니다

깃랩
- 2014년 설립, 2015년 부터 전직원 원격 근무
- 2021년 말 직원 68+국, 1,300+명 규모
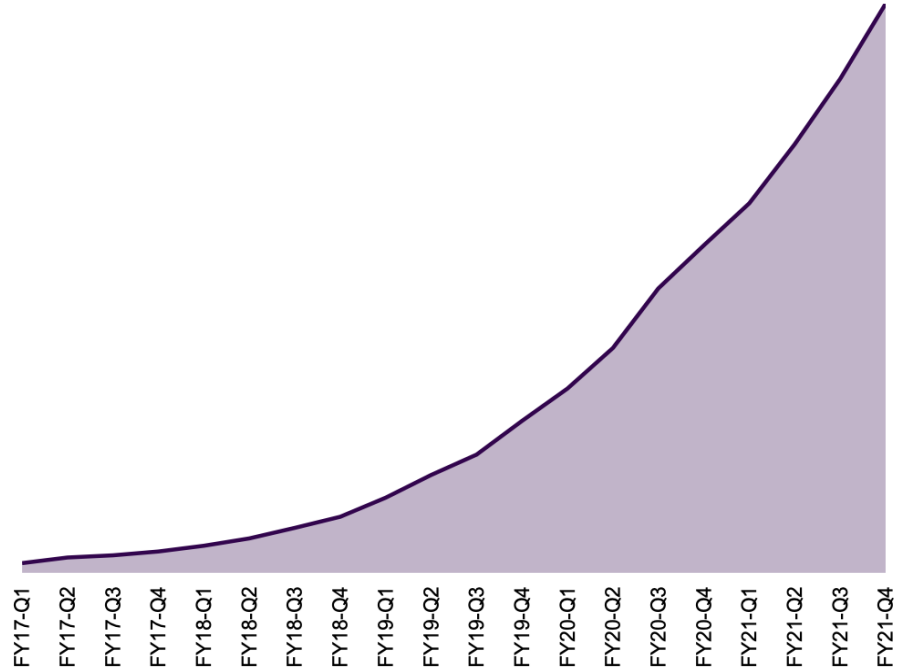- GitLab Federal entity est. in 2018

깃랩 도입 현황
- 100,000 개 이상 기업, 기관에서 사용중
- 3천만명 이상의 무료/유료 전체 사용자
- 백만명 이상의 유료 고객
- 설치형 DevOps 레포지토리 시장에서 70% 의 점유율 보유

오픈소스 커뮤니티
- 오픈소스 모델
- 3,000+ 명 이상이 전세계에서 코드에 공헌
- 10,000+ 명 이상이 깃랩 제품에 공헌

FY17-Q1 FY17-Q2 FY17-Q3 FY17-Q4 FY18-Q1 FY18-Q2 FY18-Q3 FY18-Q4 FY19-Q1 FY19-Q2 FY19-Q3 FY19-Q4 FY20-Q1 FY20-Q2 FY20-Q3 FY20-Q4 FY21-Q1 FY21-Q2 FY21-Q3 FY21-Q4

툴체인 통합이 업무 속도를 크게 저하시킴

Definition: DevOps is the convergence of people, processes and tools to enable adaptive IT and business agility
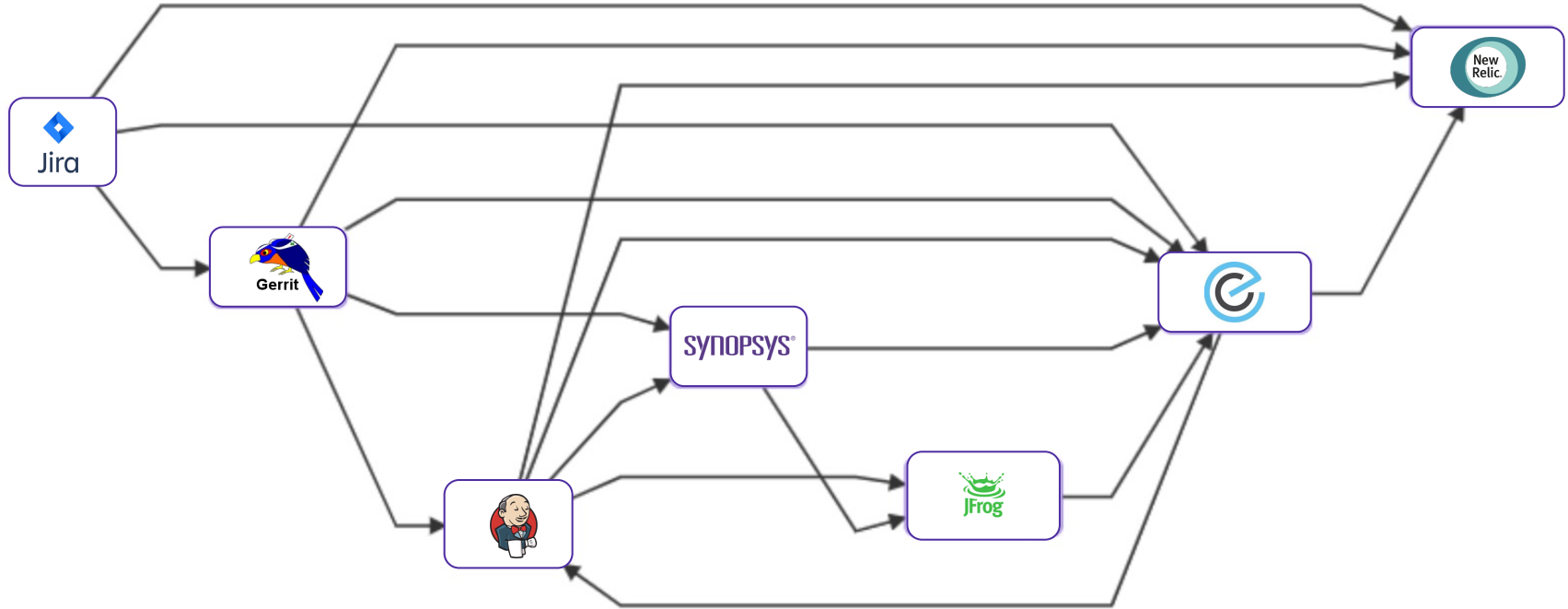
(X) **100s of Tools**   (X) **Multiple Data Models**   (X) **Complexity & Risk**   (X) **Lack of Transparency**

데브 옵스 전체 과정을 하나의 도구를 통해서 수행

One User Interface

Single Application for the Software Development Lifecycle (SDLC)

Single Data Model   Lifecycle Analytics

Permissioning   Governance   Security

Multi-Cloud / Hybrid Deployments

Enabling New Capabilities

Concurrent DevOps

SecDevOps

Seamless Collaboration

Full Accountability

Cycle Time Measurement

Transparency

Real-time Feedback

Auto Remediation

깃랩은 개발 전반에 걸쳐 다수의 공급 업체의 필요성을 하나의 제품으로 대체

통합 애플리케이션을 통한 새로운 가치 제공

Can Replace Point Tools

Project management

SCM

CI/CD

Issue tracking

Container registries

Logging

Dependency scanning

License management

Enabling New Capabilities

Concurrent DevOps

Moving security forward (SecDevOps)

Seamless collaboration

Full accountability

Cycle time measurement

Transparency

Real-time feedback

Auto Remediation
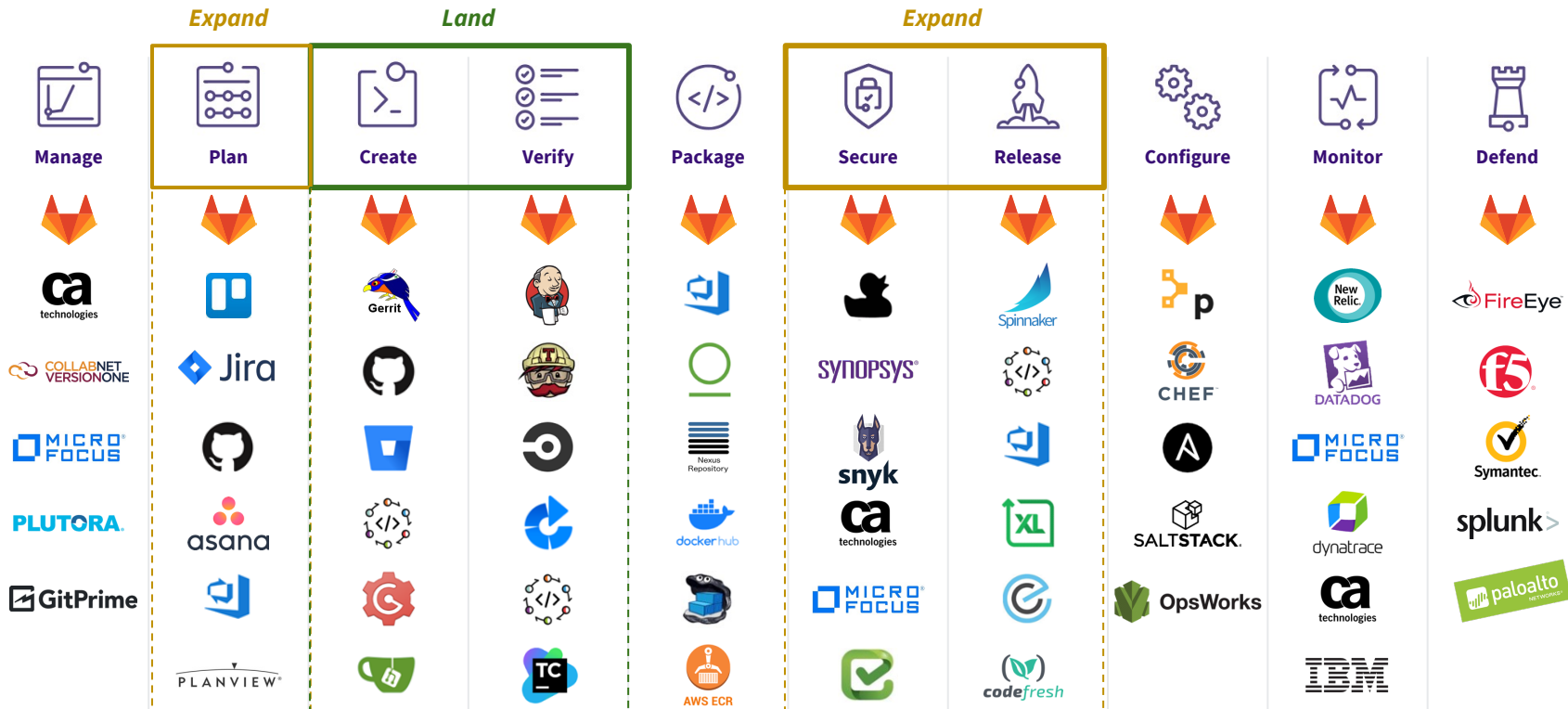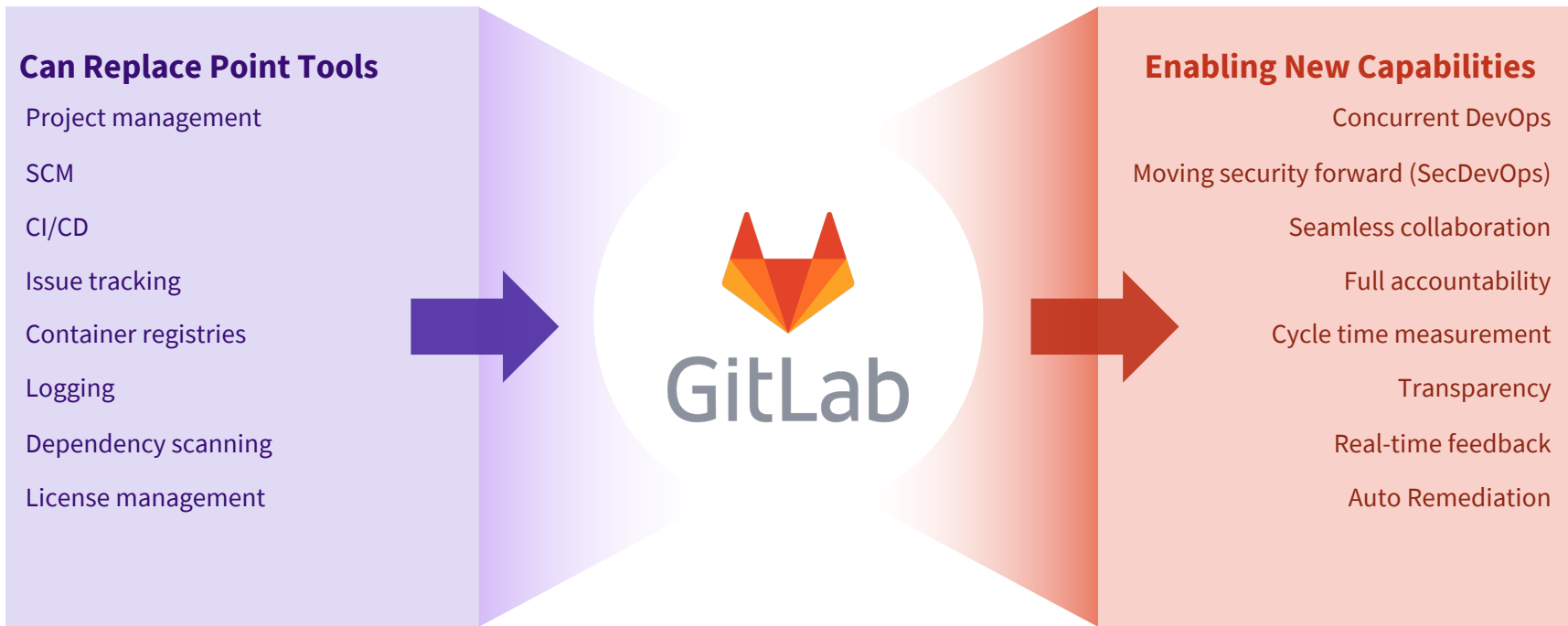
A single, intuitive user experience, data model and integrations

Gitlab 사용 고객의 Benefit

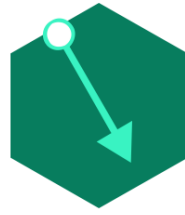The customers quantified key benefits from the GitLab investment

Faster Cycle Time

Average reduction in cycle time
87%

Increased Revenue from Increased Number of Releases

Updates and new releases increased by 12x

Improved Quality of Code

Defects reduced by 80%

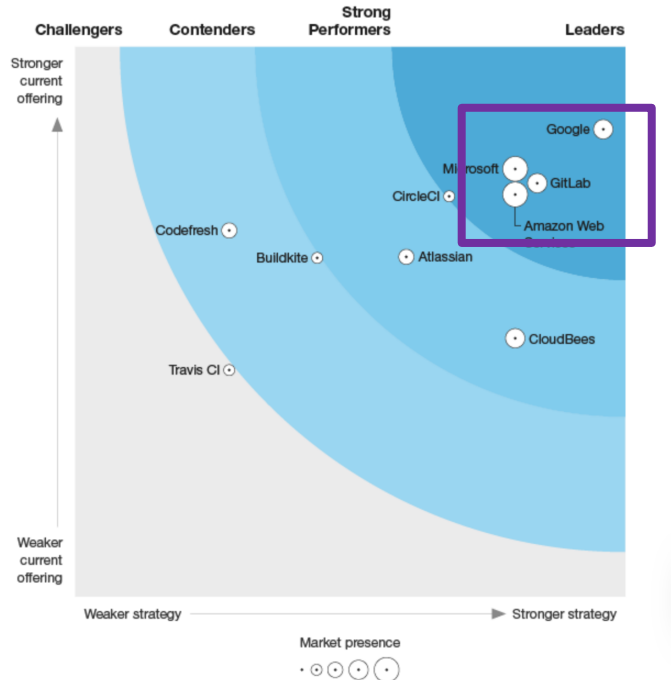**Tool Savings**

Tools retired each year:
4

FORRESTER

Forrester 에서 리더 그룹으로 평가 (2019)

THE FORRESTER WAVE™
Cloud-Native Continuous Integration Tools
Q3 2019

"GitLab's simple and cohesive approach lands it squarely as a leader."

"깃랩의 단순하고 포괄적인 접근은 명확하게 리더로 평가할 만 합니다."

FORRESTER®

Gartner®

Peer Recognition

- A **Leader** in The Forrester Wave™: Cloud-Native Continuous Integration Tools, Q3 2019
- A **Strong Performer** in The Forrester Wave™: Continuous Delivery And Release Automation, Q2 2020
- A **Contender** in The Forrester Wave™: Static Application Security Testing, Q1 2021
- **Mentions in:**
  - **Now Tech**: Static Application Security Testing, Q3 2020
  - The Forrester Wave™: Value Stream Management Solutions, Q3 2020
  - Now Tech: Zero Trust Solution Providers, Q2 2020
  - Now Tech: Value Stream Management Tools, Q2 2020
  - Now Tech: Continuous Delivery And Release Automation, Q2 2020

- **Customers Choice** for Application Release Automation 2020
- **Representative Vendor** in Gartner Market Guide for DevOps Value Stream Delivery Platforms 2020
- A **Visionary** in Enterprise Agile Planning Tools 2020
- A **Niche** player in Magic Quadrant for Application Security Testing
- **Mentions in:**
  - Market Guide for Software Composition Analysis, 2020
  - Hype Cycle for I&O Automation, 2020
  - Hype Cycle for Application Architecture and Development, 2020
  - Hype Cycle for ITSM, 2020
  - Hype Cycle for Application Security, 2020
  - Hype Cycle for Agile and DevOps, 2020
  - Hype Cycle for Open-Source Software, 2020

[2020 Gartner Peer Insights Customers' Choice for Application Release Orchestration](#)

All reports linked from https://about.gitlab.com/analysts/

모든 산업에서 사용중인 고객 군

OSC

Networking and Telecom

AT&T · EQUINIX · ERICSSON · JUNIPER NETWORKS · nbn Australia's broadband network · swisscom · Telstra · TELUS · verizon✓

Media and Entertainment

ASK MEDIA GROUP · COMCAST · dish · DISNEY · EA · SiriusXM MUSIC FOR BUSINESS

Government

U.S. AIR FORCE · DEPARTMENT OF DEFENSE · DEFENCE OFFICERS HOUSING · esa European Space Agency · Government of Canada · INTERPOL · LOCKHEED MARTIN · NASA

Consumer / Retail

Booking.com · DELTA · Expedia · macy's · NORDSTROM · ticketmaster® · Uber · wish

Industrials

FedEx Express · JAGUAR · LAND ROVER · Rockwell Automation · SIEMENS

Software

axway · IBM · NUTANIX · ORACLE · redhat

Business and Financial Services

BNY MELLON · CGI · EY · Cigna · Goldman Sachs · Nasdaq · NOMURA · StateFarm · TD Ameritrade · THOMSON REUTERS · TIAA

Hardware

BlackBerry · CISCO · DELL · HARMAN · NVIDIA · SAMSUNG · SanDisk · SONY

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주요 에디션 및 기능들

GitLab

200% faster DevOps lifecycle

MANAGE

CREATE

PLAN

DEV

RELEASE

CONFIGURE

OPS

VERIFY

PACKAGE

MONITOR

Problems

Solutions

SECURE

DEFEND

✔ Single Platform   ✔ Single Data Model   ✔ Simple & Secure   ✔ Transparent

깃랩 제공 에디션들 (GitLab Editions)

GITLAB CE

GITLAB EE

FREE

FREE   PREMIUM ULTIMATE

데브 옵스 전체 과정을 지원하는 최초의 솔루션

OSC

| Manage	Plan	Create	Verify	Package	Secure	Release	Configure	Monitor	Protect
Since 2016	**Since 2011**	**Since 2011**	**Since 2012**	**Since 2016**	**Since 2017**	**Since 2016**	**Since 2018**	**Since 2016**	**Since 2019**
Subgroups	Issue Tracking	Source Code Management	Continuous Integration (CI)	Package Registry	SAST	Continuous Delivery (CD)	Auto DevOps	Metrics	Container Scanning
Audit Events	Time Tracking	Code Review	Code Quality	Container Registry	DAST	Pages	Kubernetes Management	Alert Management	Web Application Firewall
Audit Reports	Boards	Wiki	Code Testing and Coverage	Helm Chart Registry	Fuzz Testing	Review Apps	ChatOps	Incident Management	Container Host Security
Compliance Management	Epics	Static Site Editor	Load Testing	Dependency Proxy	Dependency Scanning	Advanced Deployments	Runbooks	Logging	Container Network Security
Code Analytics	Roadmaps	Web IDE	Web Performance	Jupyter Notebooks	License Compliance	Feature Flags	Serverless	Tracing	
DevOps Reports	Service Desk	Live Preview	Usability Testing	Git LFS	Secret Detection	Release Orchestration	Infrastructure as Code	Error Tracking	
Value Stream Management	Requirements Management	Snippets	Accessibility Testing	**Coming soon:**	Vulnerability Management	Release Evidence	Cluster Cost Optimization	**Coming soon:**	**Coming soon:**
Instance Statistics	**Coming soon:**	Design Management	Merge Trains	Dependency Firewall	**Coming soon:**	Secrets Management	**Coming soon:**	Synthetic Monitoring	Security Orchestration
Insights	Quality Management	**Coming soon:**	**Coming soon:**			**Coming soon:**			
Coming soon:									

10년 이상 지속적인 기능 향상의 여정

about.gitlab.com/direction

2011
- Source Code
- Issues

2012
- CI
- Wiki
- Labels

2013
- GitLab Shell
- Groups
- Side by Side Diff

2014
- Group Milestones
- Audit Logs
- Multiple LDAP servers

2015
- Oauth Support
- GitLab.com
- CI Runner
- Docker Support

2016
- Pipelines
- Container Registry
- Environments
- Issue Boards
- Cycle Analytics
- Time Tracking
- Review Apps
- Auto Deploy

201
- Board Milestones
- Deploy Boards
- Prometheus Integration
- Burndown Charts
- Canary Deploy
- Code Quality
- Auto DevOps Beta
- Kubernetes
- Epics
- SAST

201
- DAST
- Web IDE
- Incremental Deploy
- Auto DevOps
- Licence Management
- Tracing
- Feature Flags
- Load Testing
- Anomaly Alerts
- Security Dashboard
- Alerting Framework
- App Control Panel
- Binary Repository
- APM/Tracing
- Prod Monitoring
- Error Tracking
- Logging

2019
- Operations Dashboard
- Scoped Labels
- Secrets Detection
- Epic Hierarchy
- Merge Request Approval Rules
- Cross Project Pipelines
- NPM Registry
- Serverless
- SW Bill of Materials
- Web App Firewall
- Productivity Analytics
- Design Management
- Merge trains
- Environments Dashboard
- EKS Integration
- Conan Integration
- Security Scorecard

2020
- Mobile App Sec
- Security Center
- Fuzz testing
- Kubernetes Agent
- Performance Testing
- Matrix pipeline jobs
- Iterations
- Alert Management
- Requirements Management
- Group Deploy Tokens
- Code Quality Reports
- HashiCorp Vault App
- NuGet Repository
- Log Explorer
- Code Review Analytics
- Parent-Child Pipelines
- Vulnerability Management
- Container Network Security

2021
- Pipeline editor
- DORA Metrics - Deployment Frequency
- Email an issue
- Click & drag MR comments
- Rebase Quick Action
- Distributed Gitaly Reads
- Security Alert Dashboard for Container Network Policy Alerts
- Maintenance Mode
- Resource Group for multi-project and parent-child pipelines
- Follow user activity

에디션별 기능 비교

OSC
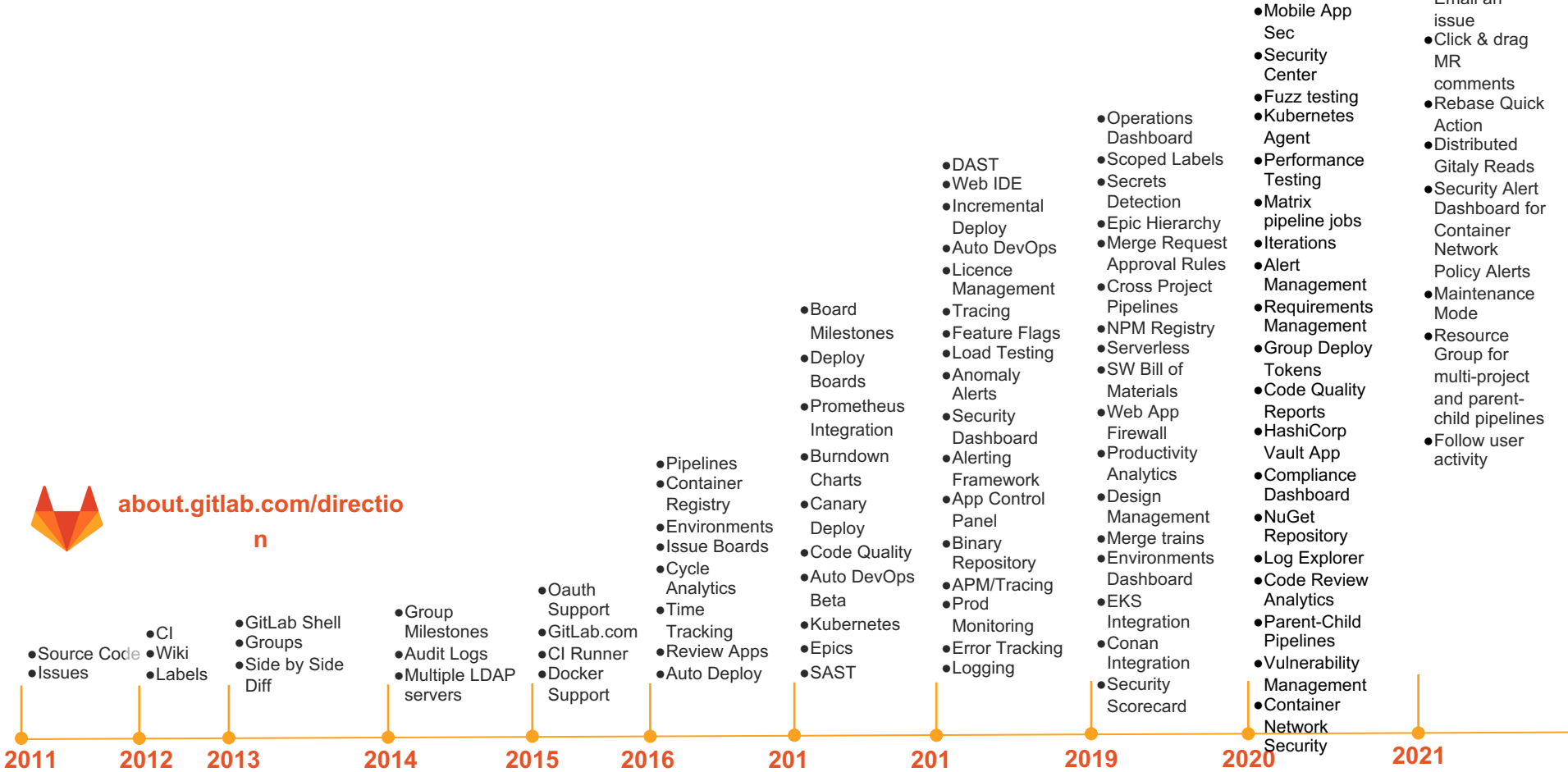
Free

Source Code Management
- CheckOut/Commit/Make Branch
- Merge Request / Code Review
- Remote Repo push mirroring
- Built-in CI/CD
- Publish static websites for free with GitLab Pages

Project Management
- Issue creation and assign
- Agile Support (Kaban Board)
- Jira Development Panel Integration
- Time Tracking
- Wiki based project documentation

Security and Compliance
- Static Application Security Testing
- Secret Detection

Support
- Community support

Premium

Build / Test
- Code quality
- CI Statistics & Graphs
- Include centralized CI definitions in projects

Governance
- Admin control, Audit log
- Authentication (Kerberos, Multiple LDAP/AD server, Create and remove admins based on LDAP groups, LDAP group sync)
- Approval flows (Merge requests approvals, multiple approvals)
- Multiple assignees
- Issue weights
- Burndown charts
- Restrict push and merge, push rules, block secret push
- Group webhooks
- Remote repository mirroring
- Contribution analytics

Support
- 30분 ~ 24시간내에 응답 (우선 순위에 따라 응답)

Scaling
- Disaster recovery
- Live upgrade assistance
- DB load balancing
- Service desk
- PostgreSQL HA
- GitLab Geo for distributed cloning
- High Availability support
- Group issue boards

Deployment
- Binary repository
- Ops Dashboard
- Multi-project pipeline graphs
- Multiple Kubernetes clusters
- Deploy boards
- Canary deployments
- Custom metrics
- Browser performance testing
- Feature Flags
- Coming: Load/performance tests
- Coming: Automatic reverts
- Coming: Release trains

Ultimate

Security
- SAST (현재 무료)
- Secret Detection
- DAST
- Container Scanning
- API/Coverage Fuzz Testing
- IaC Scanning
- Cluster Image Scanning
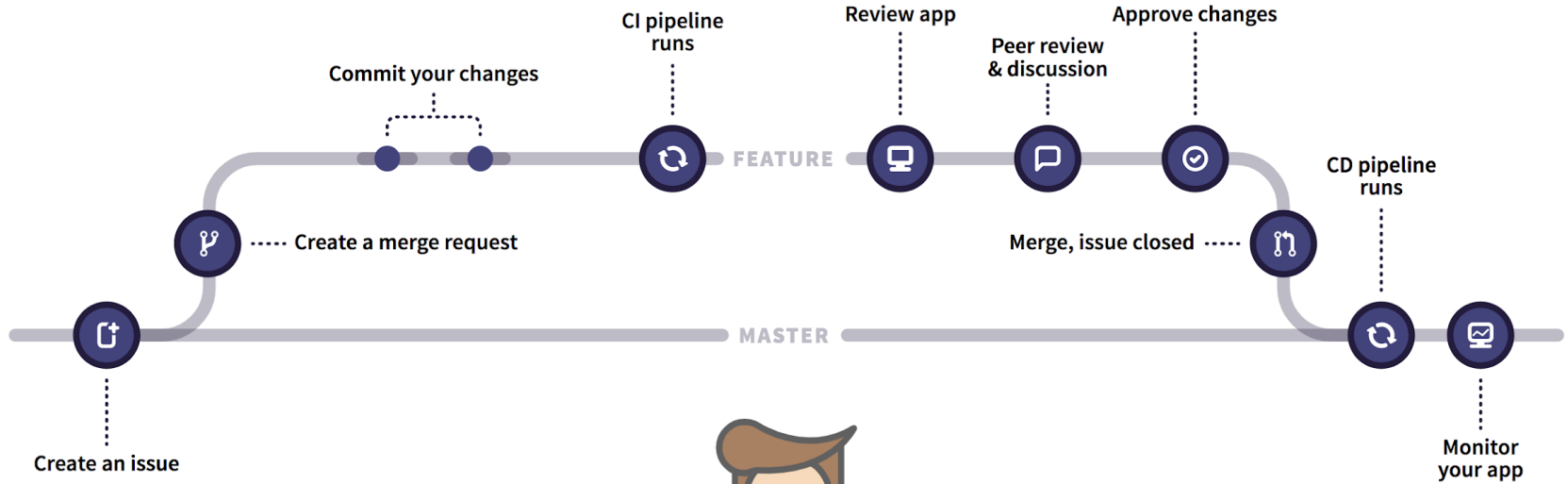- Dependency scanning
- License management

Optimize Velocity
- Epics - SubEpics(1..n)
- Roadmap
- Cluster monitoring
- Security dashboard
- Tracing
- Error tracking
- Monitoring Alerts
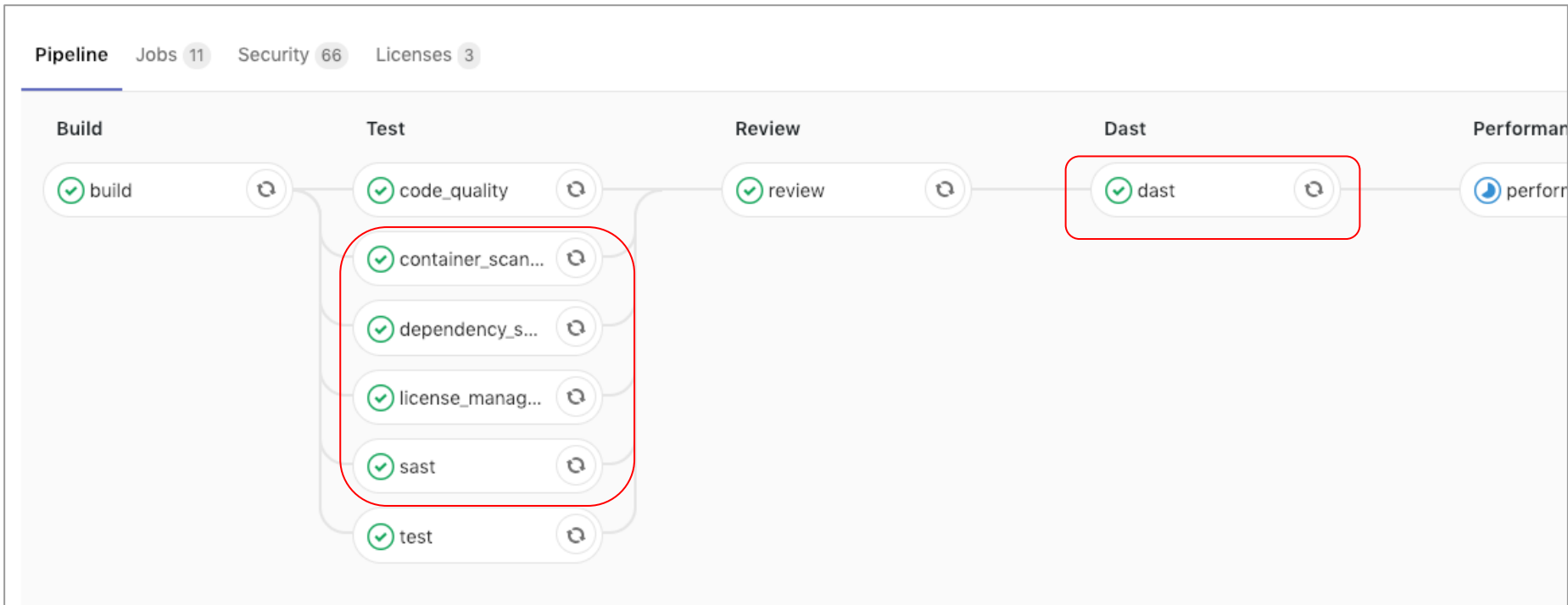- Production Logs
- Value stream analysis

Support
- TAM (전담엔지니어할당)

Features diffs
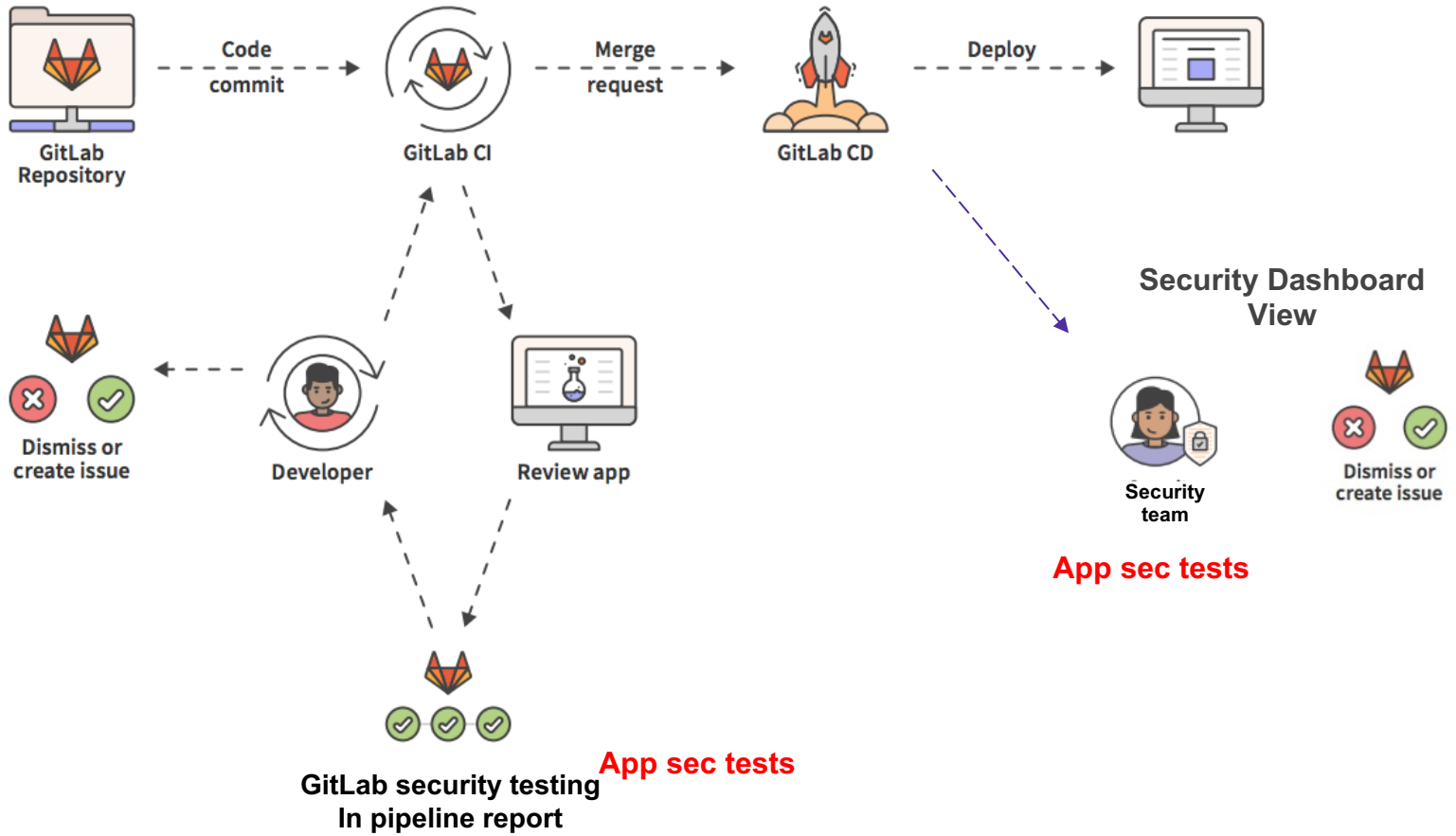
Free	Premium		Ultimate

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- Multiple assignees
- Issue weights
- Burndown charts
- Restrict push and merge, push rules, block secret push
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- Remote repository mirroring
- Contribution analytics

Support
- Premium supporting (30 ~ 4 hours)

Scaling
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Optimize Velocity
- Epics - SubEpics(1..n)
- Roadmap
- Cluster monitoring
- Security dashboard
- Tracing
- Error tracking
- Monitoring Alerts
- Production Logs
- Value stream analysis

Support
- Technical Account Manager allocation

하나의 도구로 개발자의 모든 업무를 수행 및 확인

빌드/배포의 전 과정을 바로 확인 가능

소프트웨어 결함을 빠르게 발견하고 해결

Gitlab in Major Cloud Marketplace

Gitlab MSP list

이미 일본의 후지쯔 및 미국의 Cognizent 등에서 이미 서비스를 하고 있음.

올 하반기에는 파트너 별로 요구사항이 충족하면 MSP 관련 별도의 배지를 지급 예정.

Available November 2020	Coming in Q4 FY22	Available by Invite April 2021 Openly Available End of FY22
GitLab Certified Professional Services Partner (PSP) Distinguished partners with validated service capabilities and a record for delivering excellent customer value through professional services.	GitLab Certified Managed Services Partner (MSP) Distinguished partners with validated service capabilities and a record for delivering excellent customer value through managed services.	GitLab Certified Training Partner (CTP) Distinguished partners with validated learning and development capabilities and a record for delivering excellent customer experience through training services.

영업 및 기술문의

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