GitHub Enterprise

WHAT IS GITHUB ENTERPRISE?

GitHub Enterprise gives developers the same great experience at work that they have embraced for personal and open source projects. With the world's largest software development community already familiar with using GitHub, your business can be on the fast track to a better way of building software.

» Tap the best talent for a project, and team members work effectively together whether they're down the hall or ten time zones away.

» Keep teams on the same page with repositories, branches, pull requests, commits and issues are all in the same place.

» Bring visibility to developers' contributions, sharing best practices, and keeping programming skills fresh.

» Keep your code safe with industry-standard authentication integrations and administrative controls for internal developers and external contractors.

» Create opportunities for developers to improve code quality and gain new skills throughout the development process with code reviews that are built right into the workflow.

YOUR FAVORITE DEVELOPMENT TOOL, ON YOUR SERVERS.

Developers in your organization are already using GitHub, you just may not know it yet. GitHub Enterprise is the on-premises version of GitHub.com, where more than 7.1 million developers have built over 16 million projects. It gives large-scale enterprise software development teams the best of open source development processes.

SO WHAT'S IN THE BOX?

SOURCE CONTROL MANAGEMENT WITH GIT

GitHub Enterprise is built on Git, a distributed version control system that lets your company easily implement an almost endless number of workflows on projects of all sizes. With nearly all operations performed locally, Git is faster than systems that run on a centralized server.

COLLABORATIVE CODE REVIEW

With GitHub Enterprise, code reviews are built into the workflow. Pull requests let developers interactively learn from each other as part of the development process. Whether they're discussing the whole project or one line, everything's displayed in a clean, timeline-style interface.

POWERFUL SEARCH

Under the hood, an ElasticSearch cluster live-indexes your code as your team pushes it up, so any developer can find code that already exists across your company. Leveraging existing code saves time and money.

SERIOUS SECURITY

GitHub Enterprise benefits from the same rigorous review, static analysis, and third-party security checks we give the GitHub.com web service. Deploy it on your servers, integrate with your IAM system, export your audit event and activity logs, and enable two-factor authentication.

FLEXIBLE USER MANAGEMENT

Whether your team is 40 or 4,000 strong, GitHub makes team management easy. Set repository access as needed— from the ability to create projects to read-only access on existing projects. Keep your existing access controls with SAML or LDAP integrations.

INTELLIGENT ISSUE TRACKING

GitHub's integrated issue tracker keeps your team on top of bugs and focused on features. GitHub Issues are flexible, so your project's issues pages can be as simple or as complex as you need. Track progress with labels and milestones, and move issues forward with assignments.

USEFUL ANALYTICS

Get powerful insight into work across your projects and teams. Use Pulse to see a snapshot of everything that's happened in a project repository in the past week, or visit the Activity Dashboard to see work across every project on GitHub Enterprise in easy-to-read graphs.

SIMPLE ADMINISTRATION

Use built-in tools like the Site Admin dashboard to easily administer your GitHub Enterprise instance. Review your license, access your Management Console, browse audit logs and user reports, initiate an SSH key audit, and more.

READY FOR YOUR ENTERPRISE

GitHub Enterprise is built for the rigors of the modern business environment:

BEHIND YOUR FIREWALL

GitHub Enterprise installs on your servers—all code is stored on machines that you manage. The system is configurable to meet a wide range of security and regulatory requirements.

ACCESS CONTROL

You have full control over access to repository and project information. Access can be integrated with your authentication system (LDAP, CAS) and permissions assigned by user or team.

COMPATIBLE WITH COUNTLESS IDES

Git integration is built into most popular development tools and editors, including Eclipse, Xcode, and Visual Studio. GitHub GUI clients are available for Mac, Windows,and Eclipse.

3RD-PARTY INTEGRATIONS

Happy with your current issue tracking system? No problem. GitHub Enterprise's robust REST API lets you easily integrate third-party software. Write your own or take advantage of more than 100 existing integrations.

MULTIPLE DEPLOYMENT OPTIONS

Cloud Hardware Recommendations (AWS / Azure)

USERS	AWS		AZURE	
	INSTANCE (EBS OPTIMIZED)	STORAGE (SSD)	INSTANCE	STORAGE (PREMIUM-LRS)
0-1000	r3.large	100GB EBS	Standard_DS3	100GB
1000-3000	r3.xlarge	250GB EBS	Standard_DS12	250GB
3000-5000	r3.2xlarge	500GB EBS	Standard_DS14	500GB

On Premises Hardware Recommendations (VMware; OpenStack KVM ; Hyper-V; XenServer)

» Root Disk: 60 GB GB VM root partition
» Attached Storage: high-performance SAN or local SSDs.

USERS	VCPUS*	MEMORY	ATTACHED STORAGE
0-1000	2	16 GB	100 GB
1000-3000	4	32 GB	250 GB
3000-5000	8	64 GB	500 GB

* The physical host where your GitHub Enterprise VM resides must have at least the same number of physical cores as precribed vCPUs. The physical processors should be at least Intel Xeon E5 or equivalent.