

BlueOptima Git Active MultiSite

Rock solid reliability and productivity

BlueOptima Git Active MultiSite (a.k.a. “GitAMS”), using BlueOptima’s patented Active-Active replication, is a hardened service for replicating Git repositories around the globe to enable fast, low latency, read and write access by your worldwide development community.

Eliminate the single point of failure in Git

GitAMS replication enables redundancy for Git “Upstream” protecting your company’s critical intellectual property.

Guaranteed data consistency

Repository byte-for-byte consistency is maintained by playing out Git transactions in the same order at all repository replicas.

Automatic recovery

Sites that are offline during transactions are automatically recovered when they return to service. Zero administrator intervention required.

Configurable redundancy

Only build and pay for what you need.

No Git client modifications necessary

GitAMS enables your developers to continue to use their favorite Git clients with zero changes necessary. Efficient versioning of both text and binary images fully supported.

Apache and Git+SSH support

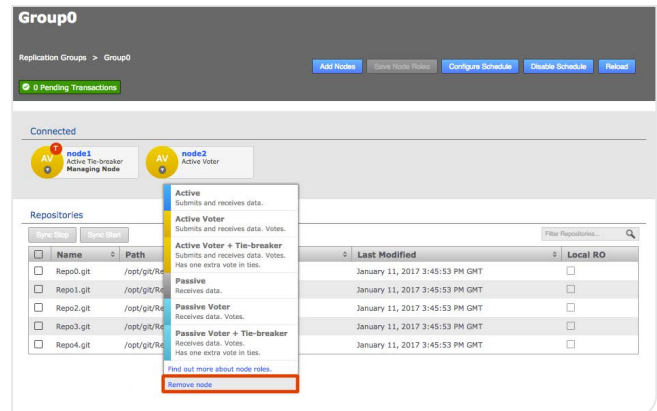
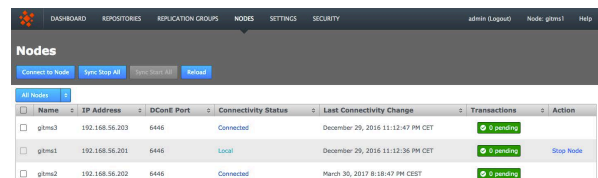
Server-side GitAMS supports Git access via either Apache or Git+SSH (or both). No proxies required: every site is writable!

Integrated with Enterprise Security

LDAP and Kerberos Authorities supported.

Powerful “selective replication”

You easily select where each repository is replicated for maximum control of your environment.

Name	IP Address	DConf Port	Connectivity Status	Last Connectivity Change	Transactions	Action
glnet3	192.168.56.203	6446	Connected	December 29, 2016 11:12:47 PM CET	0 pending	Stop Node
glnet1	192.168.56.201	6446	Local	December 29, 2016 11:12:36 PM CET	0 pending	Stop Node
glnet2	192.168.56.202	6446	Connected	March 30, 2017 8:16:47 PM CEST	0 pending	Stop Node



Network efficient

No WAN traffic for repository read operations. Repository update data is compressed before sharing via the WAN.

Immediate update of repository replicas

Real time repository synchronization on every update.

Supported environments

Git (Server Side)

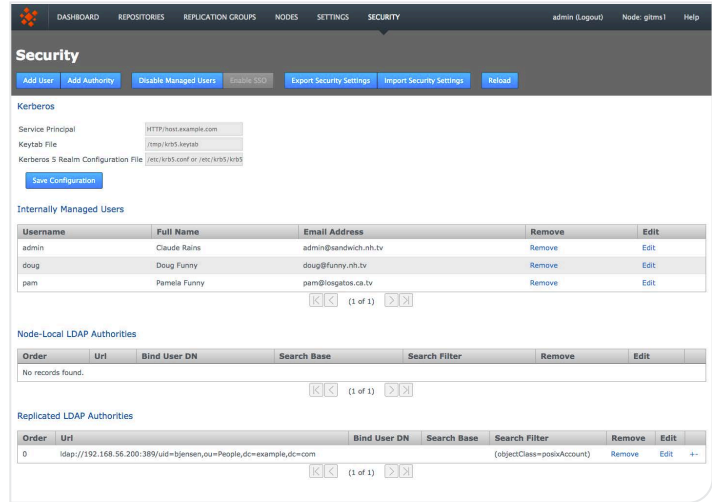
- 2.41.0 (C Implementation)

Operating Systems

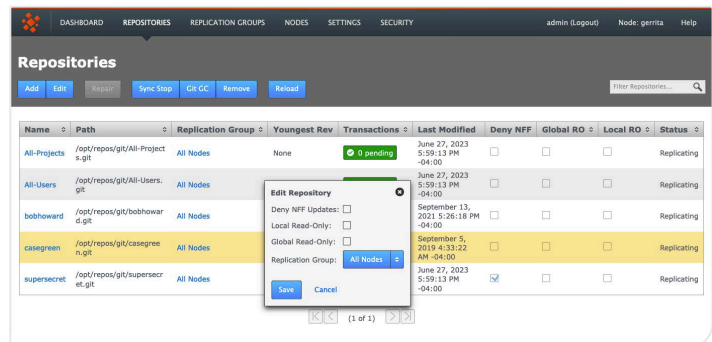
- RHEL 7 (x86-64)
- CentOS 7 (x86-64)

Java

- Oracle JDK 8



The screenshot shows the 'Security' configuration page in the BlueOptima interface. The page has a dark header with navigation tabs: DASHBOARD, REPOSITORIES, REPLICATION GROUPS, NODES, SETTINGS, and SECURITY. The 'SECURITY' tab is active. Below the header, there are buttons for 'Add User', 'Add Authority', 'Disable Managed Users', 'Enable SSO', 'Export Security Settings', 'Import Security Settings', and 'Reload'. The main content area is titled 'Kerberos' and contains fields for 'Service Principal' (http://host.example.com), 'Keytab File' (/tmp/vr5.keytab), and 'Kerberos 5 Realm Configuration File' (/etc/kr5.conf or /etc/kr5/kr5). A 'Save Configuration' button is below these fields. Below the Kerberos section is the 'Internally Managed Users' section, which contains a table with columns: Username, Full Name, Email Address, Remove, and Edit. The table lists three users: admin (Claire Rains, admin@bandwidth.nh.tv), doug (Doug Furry, doug@funny.nh.tv), and pam (Pamela Furry, pam@osgatos.ca.tv). Below this is the 'Node-Local LDAP Authorities' section, which is currently empty with the message 'No records found.' Below that is the 'Replicated LDAP Authorities' section, which contains a table with columns: Order, Uri, Bind User DN, Search Base, Search Filter, Remove, and Edit. The table lists one authority with Order 0 and Uri ldap://192.168.56.200:389/uid=bjensen,ou=People,dc=example,dc=com.



The screenshot shows the 'Repositories' configuration page in the BlueOptima interface. The page has a dark header with navigation tabs: DASHBOARD, REPOSITORIES, REPLICATION GROUPS, NODES, SETTINGS, and SECURITY. The 'REPOSITORIES' tab is active. Below the header, there are buttons for 'Add', 'Edit', 'Refresh', 'Sync Stop', 'Git CC', 'Remove', and 'Reload'. A search bar 'Filter Repositories...' is on the right. The main content area is a table with columns: Name, Path, Replication Group, Youngest Rev, Transactions, Last Modified, Deny NFF, Global RO, Local RO, and Status. The table lists five repositories: All-Projects, All-Users, bobhoward, casegreen, and supersecret. An 'Edit Repository' modal is open over the 'All-Users' repository, showing options for 'Deny NFF Updates', 'Local Read-Only', 'Global Read-Only', and 'Replication Group' (set to 'All Nodes').