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The REST API is now versioned. For more information, see "About API versioning."

Manage GitHub Enterprise Server

Use the REST API to manage your GitHub Enterprise Server instance.

About the Manage GitHub Enterprise Server API

You can manage your GitHub Enterprise Server instance using the Manage GitHub Enterprise Server API. For example, you can retrieve information about the version of the GitHub Enterprise Server software running on the instance, or on instances with multiple nodes, view the status of replication.

Specify the port number when making API calls to endpoints for the Manage GitHub Enterprise Server API. If your instance uses TLS, the port number is 8443. Otherwise, the port number is 8080. If you cannot provide a port number, you'll need to configure your client to automatically follow redirects. For more information, see "Configuring TLS."

Authentication &

To authenticate requests to endpoints for the Manage GitHub Enterprise Server API, specify the password for the instance's root site administrator account as an authentication token. Use standard HTTP authentication to send the password. The <code>api_key</code> user identifies the root site administrator. The following example demonstrates authentication for this API. Replace ROOT-SITE-ADMINISTRATOR-PASSWORD with the password, and ADMINISTRATION-PORT with either 8443 or 8080.

curl -L -u "api key:ROOT-SITE-ADMINISTRATOR-PASSWORD" 'http(s)://HOSTNAME:ADMINISTRATION-PORT/manage'

Authentication as a Management Console user &

Management Console user accounts can also authenticate to access these endpoints. For more information, see "Managing access to the Management Console."

To authenticate with the password for a Management Console user account, use standard HTTP authentication. In the following example, replace YOUR USER NAME and YOUR PASSWORD with the account's user name and password.

curl -L -u "YOUR_USER_NAME:YOUR_PASSWORD" 'http(s)://HOSTNAME:ADMINISTRATION-PORT/manage'

Query parameters &

By default, the response includes information from about all configured nodes for the instance. On an instance with multiple nodes, the details originate from <code>/data/user/common/cluster.conf</code> . You can use the following query parameters to filter the response for information about specific nodes.

Query parameter	Description
uuid	Unique identifier for the node.
cluster_role	For nodes in a cluster, the roles that apply to the node. For more information, see "[AUTOTITLE)(/admin/enterprise-management/configuring-clustering/about-cluster-nodes)."

You can specify multiple values for the query parameter by delimiting the values with a comma. For example, the following request uses curl to return any nodes with the web-server or storage-server role.

curl -L -u "api_key:R00T-SITE-ADMINISTRATOR-PASSWORD" 'http(s)://HOSTNAME:ADMINISTRATION-PORT/manage/v1/config/nodes?cluster role=WebServer,StorageServer'

Get GHES node metadata for all nodes &

Get node metadata for all configured nodes in the current cluster. For more information, see "About clustering."

Parameters for "Get GHES node metadata for all nodes"

Headers

accept string

Setting to application/vnd.github+json is recommended.

Query parameters

uuid string

The UUID which identifies a node.

cluster_roles string

The cluster roles from the cluster configuration file.

HTTP response status codes for "Get GHES node metadata for all nodes"

Status code	Description
200	ОК
401	Unauthorized
500	Internal error

Code samples for "Get GHES node metadata for all nodes"



Response

Example response Response schema

```
Status: 200

{ "topology": "Cluster", "nodes": [ { "hostname": "data1", "uuid": "1b6cf518-f97c-11ed-8544-061d81f7eedb", "cluster_roles": [
"ConsulServer", "ElasticsearchServer", "GitServer", "StorageServer" ] }, { "hostname": "data2", "uuid": "228406d4-f97c-11ed-ab01-
062281bbcf03", "cluster_roles": [ "ElasticsearchServer", "StorageServer", "PagesServer" ] } ] }
```

Get the status of maintenance mode &

Gets the status and details of maintenance mode on all available nodes. For more information, see "<u>Enabling and scheduling maintenance mode</u>."

Parameters for "Get the status of maintenance mode"

Headers

accept string

Setting to application/vnd.github+json is recommended.

Query parameters

uuid string

The UUID which identifies a node.

cluster_roles string

The cluster roles from the cluster configuration file.

HTTP response status codes for "Get the status of maintenance mode"

Status code	Description
200	OK
400	Bad request
401	Unauthorized
500	Internal error

Code samples for "Get the status of maintenance mode"



Response

```
Example response Response schema

Status: 200

[ { "hostname": "ghe-local-primary", "uuid": "lb6cf518-f97c-11ed-8544-061d81f7eedb", "status": "scheduled", "scheduled_time": "2006-01-02T15:04:05+00:00", "connection_services": [ { "name": "git operations", "number": 15 }, { "name": "mysql queries", "number": 6 }, { "name": "resque jobs", "number": 10 }, { "name": "aqueduct jobs", "number": 0 } ], "can_unset_maintenance": true, "ip_exception_list": [ "1.1.1.1" ], "maintenance_mode_message": "Scheduled maintenance for upgrading." } ]
```

Set the status of maintenance mode &

Sets or schedules the maintenance mode. For more information, see "Enabling and scheduling maintenance mode."

Parameters for "Set the status of maintenance mode"

Headers

accept string

Setting to application/vnd.github+json is recommended.

Body parameters

enabled boolean Required

Whether to enable maintenance mode.

uuid string

The UUID of the node to target. This parameter is incompatible with maintenance mode scheduling. Only use uuid if the value of when is empty or now .

when string

The time to enable maintenance mode. If this parameter is empty or set to now, maintenance mode is enabled immediately. Otherwise, maintenance mode is enabled at the specified time. The format is ISO 8601.

ip_exception_list array of strings

The list of IP addresses to exclude from maintenance mode. IPv4, IPv6, and CIDR addresses are supported.

maintenance mode message string

The message to display to users when maintenance mode is enabled.

HTTP response status codes for "Set the status of maintenance mode"

Status code	Description
200	ОК
400	Bad request



Code samples for "Set the status of maintenance mode"



Response

```
Example response Response schema

Status: 200

[ { "hostname": "ghe-local-primary", "uuid": "lb6cf518-f97c-11ed-8544-061d81f7eedb", "message": "maintenance mode scheduled with exception list [1.1.1.1]" } ]
```

Get the status of services running on all replica nodes ${\mathscr O}$

Gets the status of all services running on each replica node. This endpoint may take several seconds to reply.

Parameters for "Get the status of services running on all replica nodes"

Headers

accept string

Setting to application/vnd.github+json is recommended.

Query parameters

uuid string

The UUID which identifies a node.

cluster_roles string

The cluster roles from the cluster configuration file.

HTTP response status codes for "Get the status of services running on all replica nodes"

Status code	Description
200	ОК
401	Unauthorized
500	Internal error

Code samples for "Get the status of services running on all replica nodes"



Response

```
Example response Response schema

Status: 200

{ "status": "OK", "nodes": [ { "hostname": "ghe-local-primary", "status": "OK", "services": [] }, { "hostname": "ghe-local-replica", "status": "OK", "services": [ { "status": "OK", "name": "redis", "details": "replication is in sync" }, { "status": "OK", "name": "elasticsearch", "details": "cluster is in sync (0 shards initializing, 0 shards unassigned)" }, { "status": "OK", "name": "git", "details": "replication is in sync" }, { "status": "OK", "name": "pages", "details": "replication is in sync" }, { "status": "OK", "name": "git-hooks", "details": "replication is in sync" }, { "status": "OK", "name": "git-hooks", "details": "replication is in sync" }, { "status": "OK", "name": "mysql", "**
```

Get all GHES release versions for all nodes &

Gets the GitHub Enterprise Server release versions that are currently installed on all available nodes. For more information, see "GitHub Enterprise Server releases."

Parameters for "Get all GHES release versions for all nodes"

Headers

```
accept string
Setting to application/vnd.github+json is recommended.
```

Query parameters

uuid string

The UUID which identifies a node

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cluster_roles string

The cluster roles from the cluster configuration file.

HTTP response status codes for "Get all GHES release versions for all nodes"

Status code	Description
200	OK
401	Unauthorized
500	Internal error

Code samples for "Get all GHES release versions for all nodes"



Response

```
Example response Response schema

Status: 200

[ { "hostname": "ghe-local-primary", "version": { "version": "3.9.0", "platform": "azure", "build_id": "fc542058b5", "build_date": "2023-05-02" } } ]
```

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