



Qualys Patch Management v1.10

API Release Notes

Version 1.10

November 9, 2022

Qualys Cloud Suite API gives you many ways to integrate your programs and API calls with Qualys capabilities. You'll find all the details in our user guides, available at the time of release. Just log in to your Qualys account and go to Help > Resources.

What's New

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Qualys API Server URL

The Qualys API URL you should use for API requests depends on the Qualys platform where your account is located.

[Click here to identify your Qualys platform and get the API URL](#)

This documentation uses the API gateway URL for Qualys US Platform 2 (<https://gateway.qg2.apps.qualys.com>) in sample API requests. If you're on another platform, please replace this URL with the appropriate gateway URL for your account.

New API - Update Deployment Job

API affected	/pm/v1/deploymentjob/update/{deploymentJobId}
New or Updated APIs	New

With this release, we have added a new API to update the existing deployment job.

Input Parameter

Use the following parameters to update the existing deployment job.

Parameter	Description
deploymentJobId (String)	Enter the deployment Job ID of the job that you want to update.
Request body	Enter the DeploymentJob JSON object that you want to update.

Sample - Update the existing deployment job

API Request:

```
curl -X PATCH
"https://gateway.qg2.apps.qualys.com/pm/v1/deploymentjob/update/49fc059f-5615-4281-8332-dd29ba265ee9" -H "accept: application/json" -H
"Authorization: Bearer <<jwt token>>" -d "<<Details of the job to be updated>>"
```

Response:

```
{
  "customerId": "bc023fd7-4290-f28f-8181-95a46f519f52",
  "id": "49fc059f-5615-4281-8332-dd29ba265ee9",
  "schemaVersion": "1.0",
  "name": "PATCH API NOTIFICATION",
  "type": "Install",
  "status": "Disabled",
  "assetIds": [
    "8b822a4f-9649-4e68-84e8-61d32157984d"
  ],
  "assetTagIds": null,
  "matchAllTagIds": null,
  "exclusionTagIds": null,
  "exclusionAssetIds": null,
  "coAuthorUserIds": [
    "c4c71f94-4ef6-7e6f-8260-11704fa58172"
  ],
  "approvedPatches": null,
```

```

"disabledPatches": null,
"patchCount": null,
"scheduleType": "On-demand",
"startDateTime": "2022-10-12 09:39:15 AM",
"recurring": false,
"recurringWeekDays": "",
"dayOfMonth": null,
"recurringDayOfMonth": null,
"recurringWeekDayOfMonth": null,
"timezoneType": "SPECIFIC_TZ",
"timezone": "UTC",
"timeout": -1,
"timeoutUnit": "HOURS",
"preDeployment": {
  "userMessage": "Upgrade request",
  "description": "One or more important software upgrades must be
applied on this system.\nApprove the download to continue the upgrade
process in the background.",
  "deferment": {
    "count": 3,
    "interval": 1,
    "intervalUnit": "HOURS"
  }
},
"duringDeployment": {
  "userMessage": "Upgrade in progress",
  "description": "The upgrade is initiated and is now in progress."
},
"postDeployment": {
  "suppressReboots": false,
  "rebootOption": {
    "userMessage": "",
    "description": "",
    "deferment": {
      "count": 3,
      "interval": 1,
      "intervalUnit": "HOURS"
    }
  }
},
"rebootCountdown": {
  "interval": 15,
  "intervalUnit": "MINUTES",
  "userMessage": "Reboot countdown started",
  "description": "The system reboot is initiated. It will reboot
automatically after the timer countdown."
},
"onComplete": {
  "userMessage": "Upgrade completed",
  "description": "The upgrade process is now completed."
}

```

```

    }
  },
  "description": "",
  "createdBy": {
    "user": {
      "id": "c4c71f94-4ef6-7e6f-8260-11704fa58172",
      "name": "quays_rw17"
    },
    "date": 1665567555266
  },
  "updatedBy": {
    "user": {
      "id": "c4c71f94-4ef6-7e6f-8260-11704fa58172",
      "name": "quays_rw17"
    },
    "date": 1665567652005
  },
  "deletedBy": null,
  "assetCount": null,
  "opportunisticDownloads": false,
  "filterType": "Any",
  "exclusionFilterType": "Any",
  "taggedAssetCount": 0,
  "minimizeWindow": true,
  "dynamicPatchesQQL": "",
  "isDynamicPatchesQQL": false,
  "dynamicQQLType": 1,
  "platform": "Windows",
  "continueOnPatchFailure": false,
  "preDeployActions": [
    {
      "action": "Run Script",
      "actionId": "9b5c13f7-4594-4602-8920-e2a85547483e",
      "actionType": "predeploy",
      "params": {
        "actionItem": "pre",
        "fileChecksum": "",
        "timeout": 180
      },
      "script": "bc023fd7-4290-f28f-8181-95a46f519f52/9b5c13f7-4594-4602-8920-e2a85547483e/Script",
      "scriptType": "ps"
    }
  ],
  "postDeployActions": [
    {
      "action": "Run Script",
      "actionId": "e7f9a92c-4241-4aac-8ff4-6dcd19b55249",
      "actionType": "postdeploy",

```

```

    "params": {
      "actionItem": "post",
      "fileChecksum": "",
      "timeout": 180
    },
    "script": "bc023fd7-4290-f28f-8181-95a46f519f52/e7f9a92c-4241-4aac-8ff4-6dcd19b55249/Script",
    "scriptType": "ps"
  }
],
"applicableAssetCount": 0,
"monthlyRecurringType": null,
"patchTuesdayPlusXDays": null,
"recurringLastDayOfMonth": false,
"jobCategory": 3,
"jobTriggerStatus": null,
"completionPercent": null,
"totalAssetCount": null,
"assetResultReceivedCount": null,
"jobSource": 2,
"readOnly": false,
"notification": null,
"linkedJobId": "c085cd85-1fb5-4d81-903d-83df29e7cd27",
"linkedToJob": [
  {
    "customerId": "bc023fd7-4290-f28f-8181-95a46f519f52",
    "id": "c085cd85-1fb5-4d81-903d-83df29e7cd27",
    "name": ".",
    "type": "Install",
    "status": "Completed",
    "createdBy": {
      "user": {
        "id": "c4c71f94-4ef6-7e6f-8260-11704fa58172",
        "name": "quays_rw17"
      },
      "date": 1665047383412
    },
    "linkedJobReferenceCount": 2,
    "schedule": "Weekly on Wednesday, 05:41 PM",
    "previousRun": null,
    "nextRun": null
  }
],
"linkedJobs": null
}

```

New API - API to Change the Status of Deployment Jobs

API affected	/pm/v1/deploymentjobs/update/status/{action}
New or Updated APIs	New

With this release, we have added a new API to change the status of existing deployment jobs.

Input Parameters

Use this parameters to specify if you want to change the status of the existing deployment jobs from Enabled to Disabled or vice-versa.

Parameter	Description
action (String)	Specify whether you want to enable or disable the deployment jobs. Available values: Disabled, Enabled
Request body	Specify the deployment Job Ids for which you want to change the status in the JSON object holding. Example value: <pre>{ "ids": ["string"] }</pre>

Sample - Change the status of deployment jobs

API Request:

```
curl -X POST
"https://gateway.qg2.apps.qualys.com/pm/v1/deploymentjobs/update/status/Enabled" -H "accept: application/json" -H "Authorization: Bearer <<jwt token>>" -H "Content-Type: application/json" -d "{\"ids\": [\"49fc059f-5615-4281-8332-dd29ba265ee9\"]}"
```

Response:

```
[
  {
    "id": "49fc059f-5615-4281-8332-dd29ba265ee9",
    "name": "PATCH API NOTIFICATION",
    "status": "success"
  }
]
```

New API - Get a List of Deployment Jobs that can be Used to Fetch Patches From

API affected	/pm/v1/deploymentjobs/availableToLink
New or Updated APIs	New

With this release, we have added a new API to get a list of deployment jobs that you can use to fetch patches from.

Input Parameter

Parameter	Description
filter (String)	Specify a QQL to filter jobs based on deployment job search criteria. For example, scheduleType:'Daily'.
pageNumber (String)	Specify the page to be returned. The page numbers start from 0, and the default value is 0.
pageSize (String)	Specify the number of rows to be shown per page. The default value is 10.
platform (String)	Specify the platform type. Available values: Linux, Windows Default value: Windows
sort (String)	Specify sorting field. Example, [{"name": "asc"}].

Sample - Get get a list of deployment jobs that you can use to fetch patches from.

API Request:

```
curl -X GET
  "https://gateway.qg2.apps.qualys.com/pm/v1/deploymentjobs/availableToLink
  ?platform=Windows" -H "accept: application/json" -H "Authorization: Bearer
  <<jwt token>>"
```

Response:

```
[
  {
    "customerId": "bc023fd7-4290-f28f-8181-95a46f519f52",
    "id": "5678a31e-128f-41fc-a805-df17d30c55cd",
    "name": "Run once job #1",
    "type": "Install",
    "status": "Enabled",
    "createdBy": {
      "user": {
        "id": "c4c71f94-4ef6-7e6f-8260-11704fa58172",
```

```

        "name": "quays_rw17"
      },
      "date": 1665569492725
    },
    "linkedJobReferenceCount": null,
    "schedule": "Once, Oct 12, 2022 03:41 PM",
    "previousRun": null,
    "nextRun": null
  },
  {
    "customerId": "bc023fd7-4290-f28f-8181-95a46f519f52",
    "id": "5e306382-992f-4780-9f74-a9264a708636",
    "name": "Rollback Test Job",
    "type": "Rollback",
    "status": "Disabled",
    "createdBy": {
      "user": {
        "id": "c4c71f94-4ef6-7e6f-8260-11704fa58172",
        "name": "quays_rw17"
      }
    },
    "date": 1665049827453
  },
  "linkedJobReferenceCount": null,
  "schedule": "On-Demand",
  "previousRun": null,
  "nextRun": null
}
]

```

New API - Remove Deprecated Patches from the Existing Job

API affected	/pm/v1/deploymentjobs/{deploymentJobId}/deprecated/patches
New or Updated APIs	New

With this release, we have added a new API to remove the deprecated patches from the existing job. You have to provide the Job Id for which you want to remove the deprecated patches.

- When deprecated patches are identified for the specified job Id, the Ids of disabled patches are shown in the "disabledPatches" field.

```

    "disabledPatches": [
      "7ba994dc-e974-3588-b4a4-b10e60badc2c"
    ],

```


- When no deprecated patches are identified for the specified job Id, the null value is reflected in the "disabledPatches" field.

```
"disabledPatches": null,
```

- When deprecated patches for the specified job Id are removed, no Job Ids are shown in the "disabledPatches" field.

```
"disabledPatches": []
```

Input Parameter

Parameter	Description
deploymentJobId (String)	Specify the deployment Job ID for which you want to remove the deprecated patches.
Request body	Enter the array of patch Ids of patches that you want to remove from the deployment job that you specified.

Sample - Remove deprecated patches from the existing Job

API Request:

```
curl -X DELETE
"https://gateway.qg2.apps.qualys.com/pm/v1/deploymentjobs/6b5ff336-151c-45ac-93c8-7db709e9dfbb/deprecated/patches" -H "accept: application/json"
-H "Authorization: Bearer <<jwt token>>" -H "Content-Type: */*" -d
"{\"patchids\": [\"06bc0d35-87ca-3aee-8b02-d6436b37ebab\"]}"
```

Response:

```
{
  "customerId": "bc023fd7-4290-f28f-8181-95a46f519f52",
  "id": "6b5ff336-151c-45ac-93c8-7db709e9dfbb",
  "schemaVersion": "1.0",
  "name": "Copy_of_sonu5_1632842606497",
  "type": "Install",
  "status": "Disabled",
  "assetIds": null,
  "assetTagIds": [
    "a7249a13-c7e1-4d84-a7f4-d086154c4423"
  ],
  "matchAllTagIds": null,
  "exclusionTagIds": null,
  "exclusionAssetIds": null,
  "coAuthorUserIds": [
    "c4c71f94-4ef6-7e6f-8260-11704fa58172"
  ],
  "approvedPatches": [
```

```

    "082d378a-a512-3d27-a2de-3d004ca7ae42"
  ],
  "disabledPatches": [],
  "patchCount": 1,
  "scheduleType": "Daily",
  "startDateTime": "2021-9-28 08:56:59 PM",
  "recurring": true,
  "recurringWeekDays": "",
  "dayOfMonth": null,
  "recurringDayOfMonth": null,
  "recurringWeekDayOfMonth": null,
  "timezoneType": "AGENT_TZ",
  "timezone": null,
  "timeout": -1,
  "timeoutUnit": "HOURS",
  "preDeployment": {
    "userMessage": "",
    "description": "",
    "deferment": {
      "count": 3,
      "interval": 1,
      "intervalUnit": "HOURS"
    }
  },
  "duringDeployment": {
    "userMessage": "",
    "description": ""
  },
  "postDeployment": {
    "suppressReboots": false,
    "rebootOption": {
      "userMessage": "",
      "description": "",
      "deferment": {
        "count": 3,
        "interval": 1,
        "intervalUnit": "HOURS"
      }
    }
  },
  "rebootCountdown": {
    "interval": 15,
    "intervalUnit": "MINUTES",
    "userMessage": "Reboot countdown started",
    "description": "The system reboot is initiated. It will reboot automatically after the timer countdown."
  },
  "onComplete": {
    "userMessage": "",
    "description": ""
  }
}

```

```

    }
  },
  "description": "",
  "createdBy": {
    "user": {
      "id": "c4c71f94-4ef6-7e6f-8260-11704fa58172",
      "name": "quays_rw17"
    },
    "date": 1632842609962
  },
  "updatedBy": {
    "user": {
      "id": "bc023fd7-4290-f28f-8181-95a46f519f52",
      "name": "quays_rw17"
    },
    "date": 1665640857556
  },
  "deletedBy": {
    "user": null,
    "date": null
  },
  "assetCount": null,
  "opportunisticDownloads": false,
  "filterType": "Any",
  "exclusionFilterType": "Any",
  "taggedAssetCount": 0,
  "minimizeWindow": false,
  "dynamicPatchesQQL": "",
  "isDynamicPatchesQQL": false,
  "dynamicQQLType": 1,
  "platform": "Windows",
  "continueOnPatchFailure": false,
  "preDeployActions": null,
  "postDeployActions": null,
  "applicableAssetCount": 0,
  "monthlyRecurringType": null,
  "patchTuesdayPlusXDays": null,
  "recurringLastDayOfMonth": false,
  "jobCategory": null,
  "jobTriggerStatus": null,
  "completionPercent": null,
  "totalAssetCount": null,
  "assetResultReceivedCount": null,
  "jobSource": null,
  "readOnly": false,
  "linkedJobId": null,
  "linkedJobReferenceCount": null
}

```

New Fields added to the existing API - Create Deployment Job

We have added two new fields to the following existing API:

/pm/v1/deploymentjob API

Enter the following two new fields in the Request body:

- 1) "linkedJobId":<Existing job Id from which you want to fetch patches>

- 2) "notification": {


```

"notificationTypes": {
  "email": true
},
"notificationConfigs": {
  "recipientEmails": "<email Ids of recipients>",
  "completedPercentage": 80
},
"notificationEvents": {
  "onJobStart": true,
  "onJobComplete": true
}
      
```

The notification field is added to send the email notifications about events, such as job start and job complete to recipients.

Note:

- If you want to send the email notification to recipients, provide the notificationTypes, notificationConfigs, and notificationEvents details in the notification JSON object holding.

If you don't want to send email notification to recipients, enter the notification value as 'null'.

- notificationTypes: Enter the value as 'true'

- notificationConfigs: Enter email Ids of recipients and completion percentage between 1-100.

- notificationEvents: Enter value 'true' to at least one of the following fields: onJobStart or onJobComplete.

API Request:

```
curl -X POST "https://<QualysBaseURL>/pm/v1/deploymentjob" -H "accept: application/json" -H "Authorization: Bearer <<jwt token>>"
```

Request Body:

```

{
  "name": "Public API on demand Window job with linked job",
  "description": "Created via public API",
  "approvedPatches": [
  ],
  "assetIds": ["ac66e55a-efc6-4a8d-9f61-00d871572b96"],
  "assetTagIds": [
  ],
  "filterType": "Any",
  "exclusionAssetIds": [
    "ac66e55a-efc6-4a8d-9f61-00d871572b96"
  ],
  "exclusionFilterType": "Any",
  "exclusionTagIds": [

  ],
  "coAuthorUserIds": [
    "01f3af26-ab82-7b88-8047-2f098890dc25"
  ],
  "preDeployment": null,
  "duringDeployment": {
    "description": "During deployment Description",
    "userMessage": "During deployment userMessage"
  },
  "postDeployment": {
    "onComplete": {
      "description": "On complete Description",
      "userMessage": "On complete userMessage"
    },
    "rebootCountdown": {
      "interval": 15,
      "intervalUnit": "MINUTES",
      "userMessage": "Reboot Countdown usermessage",
      "description": "Reboot Countdown description"
    },
    "rebootOption": {
      "deferment": {
        "count": 3,
        "interval": 1,
        "intervalUnit": "HOURS"
      },
      "description": "rebootOption description",
      "userMessage": "rebootOption user message"
    },
    "suppressReboots": false
  }
}

```

```

},
"platform": "Windows",
"minimizeWindow": "true",
"type": "Install",
"status": "Disabled",
"timeout": 6,
"timeoutUnit": "HOURS",
"recurring": false,
"scheduleType": "On-demand",
"opportunisticDownloads": false,
"notification": {
  "notificationTypes": {
    "email": true
  },
  "notificationConfigs": {
    "recipientEmails": "<email address>",
    "completedPercentage": 80
  },
  "notificationEvents": {
    "onJobStart": true,
    "onJobComplete": true
  }
},
"linkedJobId": "6b1b0212-0302-4c06-863f-41239a120e6b",
"preDeployActions": [
  {
    "action": "Run Script",
    "params": {
      "actionItem": "S1"
    },
    "script": "bHM=",
    "scriptType": "ps"
  }
],
"postDeployActions": [
  {
    "action": "Install Software",
    "params": {
      "actionItem": "Install1",
      "downloadURL": "https://abc.com",
      "fileChecksum": "1234556"
    },
    "detectionScript": "bHM=",
    "detectionScriptType": "ps",
    "script": "bHM=",
    "scriptType": "ps"
  }
]
}

```

Response:

```

{
  "customerId": "bc023fd7-4290-f28f-8181-95a46f519f52",
  "id": "26f2c5c5-b27e-45be-91c6-1069053e2b21",
  "schemaVersion": "1.0",
  "name": "Public API on demand Window job with linked job",
  "type": "Install",
  "status": "Disabled",
  "assetIds": [
    "ac66e55a-efc6-4a8d-9f61-00d871572b96"
  ],
  "assetTagIds": [],
  "matchAllTagIds": null,
  "exclusionTagIds": [],
  "exclusionAssetIds": [
    "ac66e55a-efc6-4a8d-9f61-00d871572b96"
  ],
  "coAuthorUserIds": [
    "01f3af26-ab82-7b88-8047-2f098890dc25"
  ],
  "approvedPatches": [],
  "disabledPatches": null,
  "patchCount": 0,
  "scheduleType": "On-demand",
  "startDateTime": "2022-10-13 11:40:48 AM",
  "recurring": false,
  "recurringWeekDays": null,
  "dayOfMonth": null,
  "recurringDayOfMonth": null,
  "recurringWeekDayOfMonth": null,
  "timezoneType": "SPECIFIC_TZ",
  "timezone": "UTC",
  "timeout": 6,
  "timeoutUnit": "HOURS",
  "preDeployment": {
    "userMessage": "",
    "description": "",
    "deferment": {
      "count": 3,
      "interval": 1,
      "intervalUnit": "HOURS"
    }
  },
  "duringDeployment": {
    "userMessage": "During deployment userMessage",
    "description": "During deployment Description"
  },
},

```

```

"postDeployment": {
  "suppressReboots": false,
  "rebootOption": {
    "userMessage": "rebootOption user message",
    "description": "rebootOption description",
    "deferment": {
      "count": 3,
      "interval": 1,
      "intervalUnit": "HOURS"
    }
  },
  "rebootCountdown": {
    "interval": 15,
    "intervalUnit": "MINUTES",
    "userMessage": "Reboot Countdown usermessage",
    "description": "Reboot Countdown description"
  },
  "onComplete": {
    "userMessage": "On complete userMessage",
    "description": "On complete Description"
  }
},
"description": "Created via public API",
"createdBy": {
  "user": {
    "id": "c4c71f94-4ef6-7e6f-8260-11704fa58172",
    "name": "quays_rwl7"
  },
  "date": 1665661248023
},
"updatedBy": {
  "user": null,
  "date": null
},
"deletedBy": {
  "user": null,
  "date": null
},
"assetCount": null,
"opportunisticDownloads": false,
"filterType": "Any",
"exclusionFilterType": "Any",
"taggedAssetCount": 0,
"minimizeWindow": true,
"dynamicPatchesQQL": null,
"isDynamicPatchesQQL": null,
"dynamicQQLType": null,
"platform": "Windows",
"continueOnPatchFailure": false,

```



```

"preDeployActions": [
  {
    "action": "Run Script",
    "actionId": "5e904a60-bded-4b4c-a85e-9c84e0ddf400",
    "actionType": "predeploy",
    "params": {
      "actionItem": "S1",
      "timeout": 180
    },
    "script": "bc023fd7-4290-f28f-8181-95a46f519f52/5e904a60-bded-4b4c-a85e-9c84e0ddf400/Script",
    "scriptType": "ps"
  }
],
"postDeployActions": [
  {
    "action": "Install Software",
    "actionId": "818123e0-42c3-4050-9a71-776f1ace3273",
    "actionType": "postdeploy",
    "params": {
      "actionItem": "Install1",
      "downloadURL": "https://abc.com",
      "fileChecksum": "1234556",
      "timeout": 180
    },
    "detectionScript": "bc023fd7-4290-f28f-8181-95a46f519f52/818123e0-42c3-4050-9a71-776f1ace3273/DetectionScript",
    "detectionScriptType": "ps",
    "script": "bc023fd7-4290-f28f-8181-95a46f519f52/818123e0-42c3-4050-9a71-776f1ace3273/Script",
    "scriptType": "ps"
  }
],
"applicableAssetCount": 0,
"monthlyRecurringType": null,
"patchTuesdayPlusXDays": null,
"recurringLastDayOfMonth": null,
"jobCategory": 3,
"jobTriggerStatus": null,
"completionPercent": null,
"totalAssetCount": null,
"assetResultReceivedCount": null,
"jobSource": 3,
"readOnly": false,
"notification": {
  "notificationTypes": {
    "email": true
  },
  "notificationConfigs": {

```

```

    "recipientEmails": "<email Ids of recipients>",
    "completedPercentage": "80"
  },
  "notificationEvents": {
    "onJobStart": true,
    "onJobComplete": true
  }
},
"linkedJobId": "6b1b0212-0302-4c06-863f-41239a120e6b",
"linkedToJob": [
  {
    "customerId": "bc023fd7-4290-f28f-8181-95a46f519f52",
    "id": "6b1b0212-0302-4c06-863f-41239a120e6b",
    "name": "Copy_of_QQL_CRM_1664859897059",
    "type": "Install",
    "status": "Completed",
    "createdBy": {
      "user": {
        "id": "c4c71f94-4ef6-7e6f-8260-11704fa58172",
        "name": "quays_rw17"
      },
      "date": 1664859939690
    },
    "linkedJobReferenceCount": 2,
    "schedule": "On-Demand",
    "previousRun": null,
    "nextRun": null
  }
],
"linkedJobs": null
}

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