

# Bitbucket Powershell 이용하여 Excel로 사용자 생성 및 그룹 추가

이 문서는 Bitbucket-Powershell 활용하여 Excel로 사용자 생성 및 그룹 추가 가이드를 공유하기 위해 작성되었다.

도구명	Crowd, Powershell
비고	

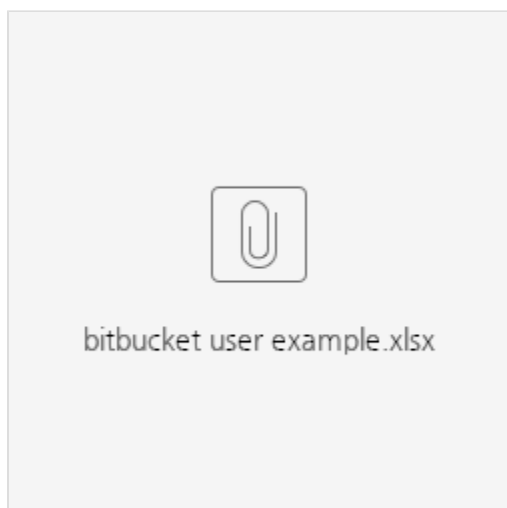
- [Powershell 이용하여 Excel로 사용자 생성 및 그룹 추가](#)
  - [Excel에 정보 넣기](#)
  - [Powershell Script](#)
  - [사용 예시](#)
- [참조 링크](#)

## Powershell 이용하여 Excel로 사용자 생성 및 그룹 추가

### Excel에 정보 넣기

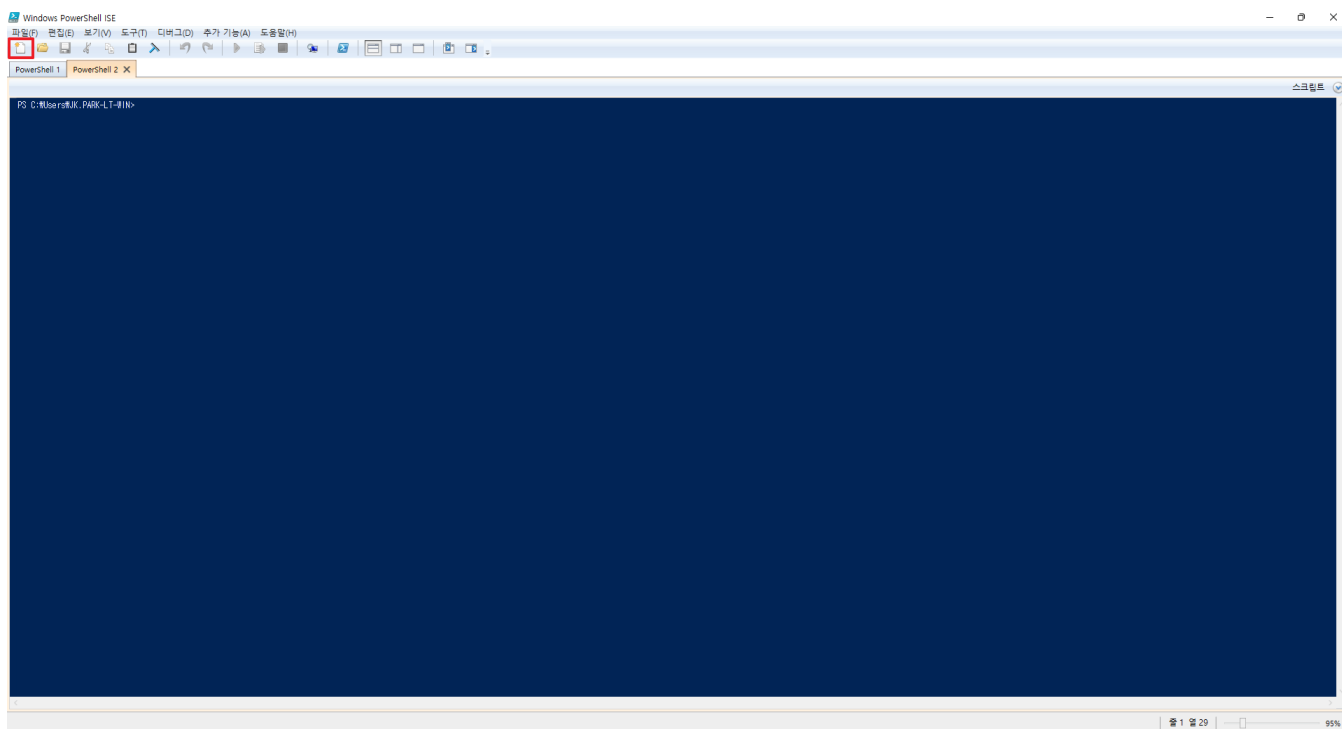
- 해당 형식으로 생성(첨부파일). 각 행마다 그룹 칸에 값이 없을 때까지 그룹 추가됨
- 1열 Name, 2열 DisplayName, 3열 EmailAddress, 4열 Password 5열부터 그룹명

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	Name	displayName	emailAddress	password	group1	group2																			
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									
13																									
14																									
15																									
16																									
17																									
18																									
19																									
20																									
21																									
22																									
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									
31																									
--																									



## Powershell Script

- 윈도우 키 → Powershell ISE 실행 → 새로 만들기



- 2행에 Bitbucket 주소  
9열에 Default Group 넣을 지 여부 선택: stash-users  
Script 실행 후 해당 Excel 파일 선택 가능

```
#url
$bitbucketUrl = "https://bitbucket.almdemo.curvc.com/"

if($($bitbucketUrl).ToString()[-1] -eq '/'){
    $bitbucketUrl = $bitbucketUrl.ToString().Substring(0, $bitbucketUrl.Length - 1)
}

# DefaultGroup :           $true,    $false, : stash-users
$defaultGroup = $false
if($defaultGroup){
    $defaultCheck = "true"
} else{
    $defaultCheck = "false"
```

```

}

# Bitbucket ID, PW
# ID,PW
Add-Type -AssemblyName System.Windows.Forms
Add-Type -AssemblyName System.Drawing

$form = New-Object System.Windows.Forms.Form
$form.Text = 'Bitbucket Login '
$form.Size = New-Object System.Drawing.Size(300,200)
$form.StartPosition = 'CenterScreen'

$cancelButton = New-Object System.Windows.Forms.Button
$cancelButton.Location = New-Object System.Drawing.Point(150,120)
$cancelButton.Size = New-Object System.Drawing.Size(75,23)
$cancelButton.Text = ''
$cancelButton.DialogResult = [System.Windows.Forms.DialogResult]::Cancel
$form.AcceptButton = $cancelButton
$form.Controls.Add($cancelButton)

$okButton = New-Object System.Windows.Forms.Button
$okButton.Location = New-Object System.Drawing.Point(75,120)
$okButton.Size = New-Object System.Drawing.Size(75,23)
$okButton.Text = ''
$okButton.DialogResult = [System.Windows.Forms.DialogResult]::OK
$form.AcceptButton = $okButton
$form.Controls.Add($okButton)

$Labeltitle = New-Object System.Windows.Forms.Label
$Labeltitle.Location = New-Object System.Drawing.Point(10,20)
$Labeltitle.Size = New-Object System.Drawing.Size(200,20)
$Labeltitle.Text = 'Bitbucket .'
$form.Controls.Add($Labeltitle)
$Label = New-Object System.Windows.Forms.Label
$Label.Location = New-Object System.Drawing.Point(10,50)
$Label.Size = New-Object System.Drawing.Size(70,20)
$Label.Text = 'ID'
$form.Controls.Add($Label)
$Label2 = New-Object System.Windows.Forms.Label
$Label2.Location = New-Object System.Drawing.Point(10,70)
$Label2.Size = New-Object System.Drawing.Size(70,40)
$Label2.Text = 'PW'
$form.Controls.Add($Label2)

$textBox = New-Object System.Windows.Forms.TextBox
$textBox.Location = New-Object System.Drawing.Point(80,50)
$textBox.Size = New-Object System.Drawing.Size(100,20)
$form.Controls.Add($textBox)
$textBox1 = New-Object System.Windows.Forms.TextBox
$textBox1.PasswordChar = '*'
$textBox1.Location = New-Object System.Drawing.Point(80,70)
$textBox1.Size = New-Object System.Drawing.Size(100,20)
$form.Controls.Add($textBox1)

$form.Topmost = $true

$form.Add_Shown({$textBox.Select()})
$result = $form.ShowDialog()

if ($result -eq [System.Windows.Forms.DialogResult]::OK)
{
    $bitbucketID = $textBox.Text
    $bitbucketPW = $textBox1.Text
}
# SSL      , SSL      X
Add-Type @"
using System.Net;
using System.Security.Cryptography.X509Certificates;
public class TrustAllCertsPolicy : ICertificatePolicy {
    public bool CheckValidationResult(
        ServicePoint srvPoint, X509Certificate certificate,

```

```

        WebRequest request, int certificateProblem){
            return true;
        }
    }

"@
[System.Net.ServicePointManager]::CertificatePolicy = New-Object TrustAllCertsPolicy
[Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType]::Tls, [Net.SecurityProtocolType]::
Tls11, [Net.SecurityProtocolType]::Tls12, [Net.SecurityProtocolType]::Tls13, [Net.SecurityProtocolType]::Ssl3

#
function Get-BasicAuthCreds {
    param([string]$Username, [string]$Password)
    $AuthString = "{0}:{1}" -f $Username,$Password
    $AuthBytes = [System.Text.Encoding]::ASCII.GetBytes($AuthString)
    return [Convert]::ToBase64String($AuthBytes)
}
$BasicCreds = Get-BasicAuthCreds -Username $bitbucketID -Password $bitbucketPW

#
$FileBrowser = New-Object System.Windows.Forms.OpenFileDialog
$FileBrowser.Title = ""
$FileBrowser.Filter = "xlsx (*.xlsx)| *.xlsx"
[void]$FileBrowser.ShowDialog()
$FilePath = $FileBrowser.FileName.ToString()
$Excel = New-Object -ComObject Excel.Application
$Excel.Visible = $true
$WorkBook = $Excel.Workbooks.add($FilePath)
$sheet = $WorkBook.worksheets.Item(1)

#
$row = 2
$count = 0

#
$LogArray = @()

# 1 1 Name
if($Sheet.Cells.Item(1,1).Text -ne "Name"){
    Write-Host "Excel "
    return
}
while($Sheet.Cells.Item($row,1).Text -ne ""){
    $Log = ""
    #
    $col = 5
    $groupArray = @()

    # 1 Name, 2 DisplayName, 3 EmailAddress 4 password 5
    $name = $Sheet.Cells.Item($row,1).Text
    $displayName = $Sheet.Cells.Item($row,2).Text
    $emailAddress = $Sheet.Cells.Item($row,3).Text
    $password = $Sheet.Cells.Item($row,4).Text

    #User API
    $user_api = "/rest/api/latest/admin/users?emailAddress=${emailAddress}&displayName=${displayName}
&name=${name}&password=${password}&addToDefaultGroup=${defaultCheck}"
    $add_api = Invoke-WebRequest -Uri "${bitbucketUrl}${user_api}" -Method Post -ContentType 'application/json'
    -Headers @{"Authorization"="Basic $BasicCreds"}

    #
    if($add_api -eq $null){
        write-host "User: ${name} "
        $Log += "User: ${name} "
    } elseif($add_api.StatusCode -eq 204){
        write-host "User: ${name} add "
        $Log += "User: ${name} add "
    } else{
        write-host "User: ${name} Failed"
        $Log += "User: ${name} Failed "
    }
}

```

```

}
# User API
$user_api = $null
$add_api = $null

#Group API
$group_api = "/rest/api/latest/admin/users/add-groups"

#Group Body
while($Sheet.Cells.Item($row,$col).Text -ne ""){
    $groupArray += $Sheet.Cells.Item($row,$col).Text
    $col++
}
if($groupArray.Count -ne 0){
    $groups = ConvertTo-Json ${groupArray}
    $form1= '{"groups":"' + $groups + '","user":"' + $name + '" }'
    $form = [System.Text.Encoding]::UTF8.GetBytes($form1)
    $add_group_api = Invoke-WebRequest -Uri "${bitbucketUrl}${group_api}" -Method Post -ContentType
'application/json' -Headers @{"Authorization"="Basic $BasicCreds"} -Body $form
}
#
if($add_group_api -eq $null){
    write-host "Group: ${groupArray} "
    $Log += "Group: ${groupArray} "
} elseif($add_api.StatusCode -eq 204){
    write-host "Group: ${groupArray} 204"
    $Log += "Group: ${groupArray} 204"
} else{
    write-host "Group: ${groupArray} add"
    $Log += "Group: ${groupArray} add"
}
# Group API
$add_group_api = $null

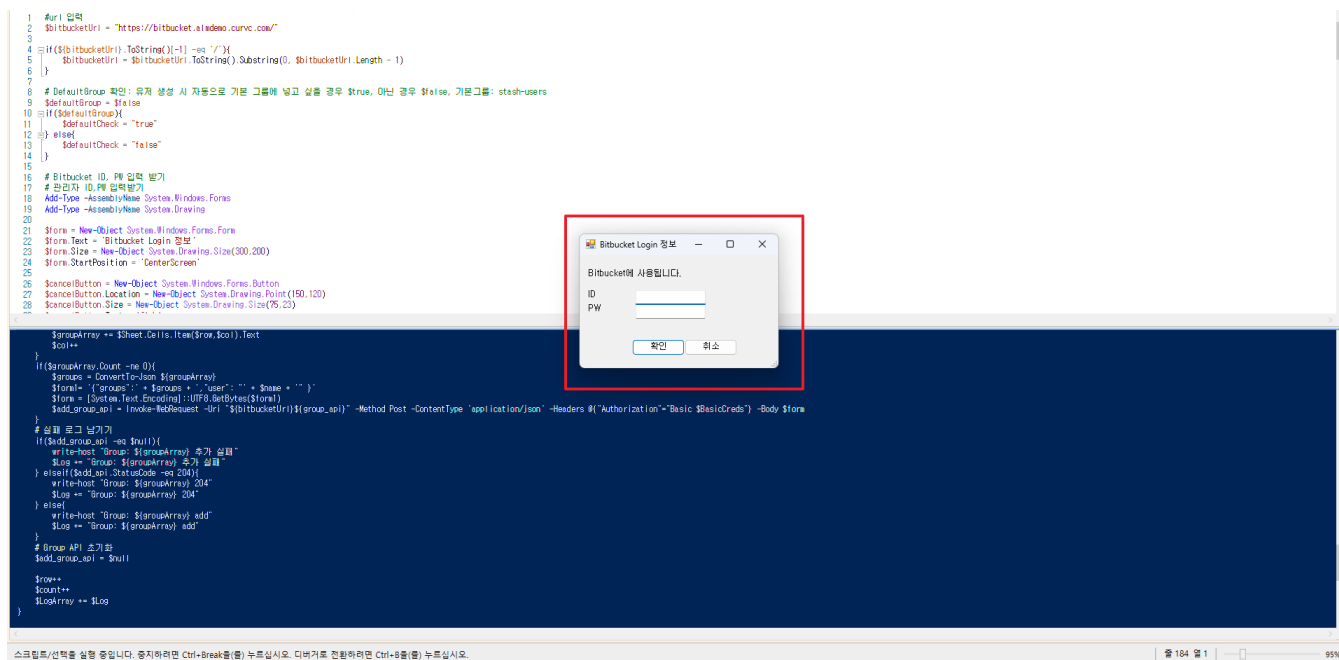
$row++
$count++
$LogArray += $Log
}

$date = Get-Date -UFormat %Y%m%d%H%M
$LogArray > .\${date}_BitbucketAdd.log

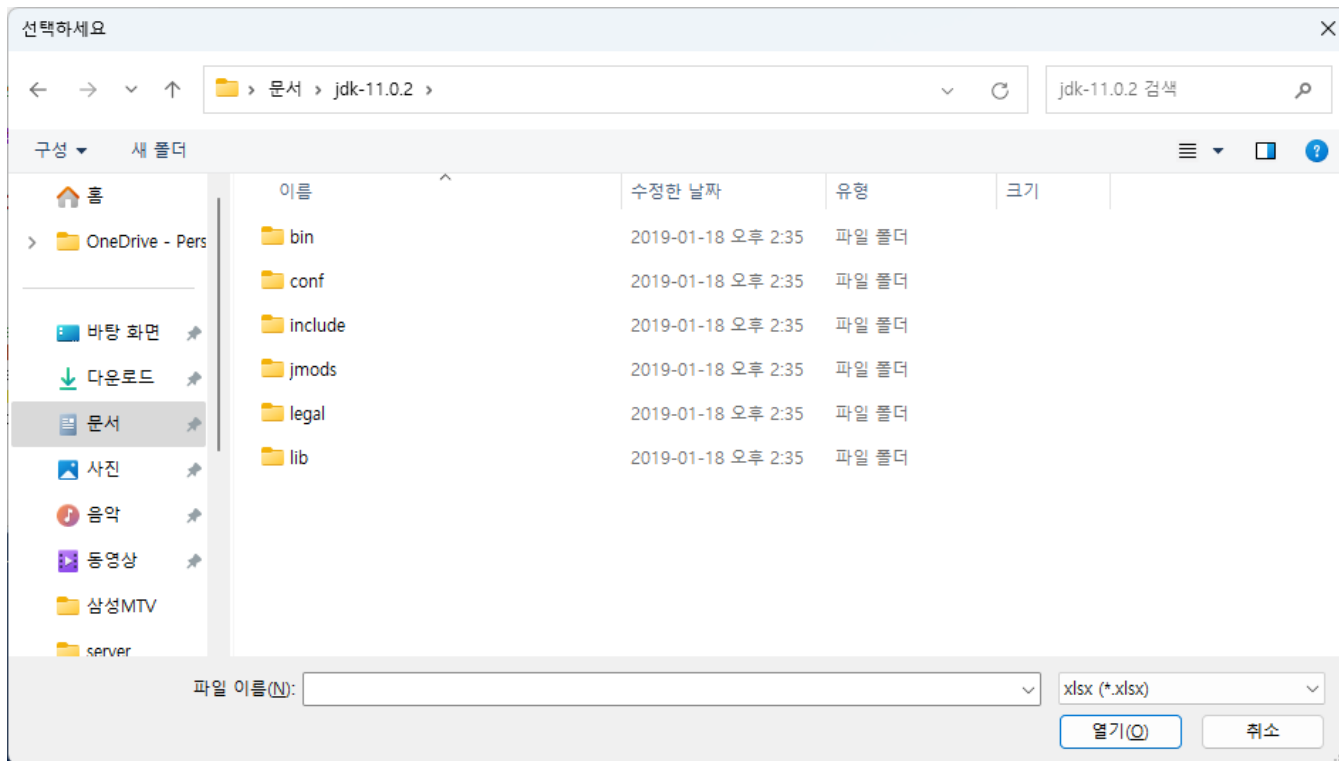
```

## 사용 예시

- 해당 Script 실행 시 User 정보 입력창에 정보 입력



#### ■ 입력 후 엑셀파일 선택



#### ■ 실행 후 해당 Powershell console에서 추가된 내용 확인

```
112
113
114 #첫방 무시
115 $row = 2
116 $count = 0
117
118 #기록물 로그
119 $LogArray = @()
120
121 # 1열 1열 값이 Name이 아닌 경우 중지
122 if ($Sheet.Cells.Item(1,1).Text -ne "Name"){
123     Write-Host "Excel 파일을 확인해주세요"
124     return
125 }
126 while ($Sheet.Cells.Item($row,1).Text -ne ""){
127     $Log += ""
128     # 그룹명 초기화
129     $col = 5
130     $groupArray = @()
131
132     # 1열 Name, 2열 DisplayName, 3열 EmailAddress, 4열 password 5열부터 그룹명
133     $row = $Sheet.Cells.Item($row,1).Text
134     $displayName = $Sheet.Cells.Item($row,2).Text
135     $emailAddress = $Sheet.Cells.Item($row,3).Text
136     $password = $Sheet.Cells.Item($row,4).Text
137
138     #User 추가하는 API
139
140 } else{
141     write-host "Group: $($groupArray) add"
142     $Log += "Group: $($groupArray) add"
143 }
144 # Group API 초기화
145 $add_group_api = $null
146
147 $row++
148 $count++
149 $LogArray += $Log
150 }
151
152 PS C:\Users\BARK\LT-WIN> C:\Users\BARK\LT-WIN\Desktop\Bitbucket User 추가.ps1
153 계속하려면 <Enter> 키를 누르십시오...
154
155 PS C:\Users\BARK\LT-WIN> C:\Users\BARK\LT-WIN\Desktop\Bitbucket User 추가.ps1
156 User: test2023 add
157 Group: 2023 add
158 User: test2024 add
159 Group: 2023 한글테스트 add
160
161 PS C:\Users\BARK\LT-WIN> $LogArray
162 User: test2023 add Group: 2023 add
163 User: test2024 add Group: 2023 한글테스트 add
164
165 PS C:\Users\BARK\LT-WIN> |
```

## 참조 링크

- [Bitbucket REST API Reference](#)