

Npm install

```
F:\Job\DevRev\snap-ins-example\4-sample-snap-in\code>npm install

up to date, audited 825 packages in 2s

126 packages are looking for funding
  run `npm fund` for details

3 moderate severity vulnerabilities

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
```

Npm run build

```
F:\Job\DevRev\snap-ins-example\4-sample-snap-in\code>npm run build

> devrev-snaps-typescript-template@1.0.0 build
> rimraf ./dist && tsc
```

Npm run package

```
F:\Job\DevRev\snap-ins-example\4-sample-snap-in\code>npm run package

> devrev-snaps-typescript-template@1.0.0 prepackage
> npm run build

> devrev-snaps-typescript-template@1.0.0 build
> rimraf ./dist && tsc

> devrev-snaps-typescript-template@1.0.0 package
> tar -cvzf build.tar.gz dist package.json package-lock.json .npmrc

a dist
a dist/function-factory.d.ts
a dist/function-factory.js
a dist/functions
a dist/index.d.ts
a dist/index.js
a dist/main.d.ts
a dist/main.js
a dist/test-runner
a dist/test-runner/example.test.d.ts
a dist/test-runner/example.test.js
a dist/test-runner/test-runner.d.ts
a dist/test-runner/test-runner.js
a dist/functions/function_1
a dist/functions/function_2
a dist/functions/function_2/index.d.ts
a dist/functions/function_2/index.js
a dist/functions/function_2/index.test.d.ts
a dist/functions/function_2/index.test.js
a dist/functions/function_1/index.d.ts
a dist/functions/function_1/index.js
a dist/functions/function_1/index.test.d.ts
a dist/functions/function_1/index.test.js
a package.json
a package-lock.json
a .npmrc
```

Authentication

```
>devrev profiles authenticate -o <dev-org-slug> -u <youremail@yourdomain.com>
```

Command-Line Output:

```
F:\Job\DevRev\snap-ins-example\4-sample-snap-in\code>devrev profiles authenti
cate -o sathyakumar -u sathyakumar.webdev@gmail.com
https://auth.devrev.ai/authorize?access_type=offline&audience=janus&client_id
=o4o4fpnvdAeisRnmkxOrZZ2Wt5wvzyGB&organization=org_wXq2jvH1AZYXH3AX&redirect_
uri=http%3A%2F%2Flocalhost%3A3000&response_type=code&scope=openid+profile+ema
il+offline_access&state=CpiCu6IPco4llpRvqPkY97JaC7pfkWhTfirC-rtlufssMRMKZICpQ
267hYu2F6UaXsahITPfpUAI1q_6ciiMdQ%3D%3D
```

Snap-in-package

```
● ● ● snap_in_package

>devrev snap_in_package create-one --slug hello_world | jq .
```

Command-Line Output:

```
F:\Job\DevRev\snap-ins-example\4-sample-snap-in\code>devrev snap_in_package create-one --slug
hello_world_snap_in | jq .
{
  "snap_in_package": {
    "created_by": {
      "type": "dev_user",
      "display_handle": "sathyakumar",
      "display_id": "DEVU-1",
      "display_name": "sathyakumar",
      "email": "sathyakumar.webdev@gmail.com",
      "full_name": "Sathyakumar S",
      "id": "don:identity:dvr-in-1:devo/2okdMmZBbb:devu/1",
      "id_v1": "don:DEV-2okdMmZBbb:dev_user:DEVU-1",
      "state": "active",
      "thumbnail": "https://api.devrev.ai/internal/display-picture/Sathyakumar%20S.png"
    },
    "created_date": "2024-07-01T17:15:37.876Z",
    "display_id": "snap_in_package-fae364da-bb2e-4420-b3e0-3f3d58794e9b",
    "id": "don:integration:dvr-in-1:devo/2okdMmZBbb:snap_in_package/fae364da-bb2e-4420-b3e0-3f3d58794e9b",
    "modified_by": {
      "type": "dev_user",
      "display_handle": "sathyakumar",
      "display_id": "DEVU-1",
      "display_name": "sathyakumar",
      "email": "sathyakumar.webdev@gmail.com",
      "full_name": "Sathyakumar S",
      "id": "don:identity:dvr-in-1:devo/2okdMmZBbb:devu/1",
      "id_v1": "don:DEV-2okdMmZBbb:dev_user:DEVU-1",
      "state": "active",
      "thumbnail": "https://api.devrev.ai/internal/display-picture/Sathyakumar%20S.png"
    },
    "modified_date": "2024-07-01T17:15:37.876Z",
    "slug": "hello_world_snap_in"
  }
}
```

Snap-in-version

```
● ● ● snap_in_version  
>devrev snap_in_version create-one -manifest manifest.yaml -archive build.tar.gz |  
jq
```

Command-Line Output:

```
F:\Job\DevRev\snap-ins-example\4-sample-snap-in\code>devrev snap_in_version create-one --manifest manifest.yaml --archive build.t  
ar.gz | jq  
{  
  "snap_in_version": {  
    "automations": [  
      {  
        "event_source": "devrev-webhook",  
        "event_types": [  
          "work_created"  
        ],  
        "function": "function_1",  
        "name": "convergence_automation_devrev"  
      }  
    ],  
    "commands": [  
      {  
        "description": "Command to trigger function to add comment to this work item.",  
        "function": "function_2",  
        "name": "comment_here",  
        "namespace": "devrev",  
        "surfaces": [  
          {  
            "object_types": [  
              "issue",  
              "ticket"  
            ],  
            "surface": "discussions"  
          }  
        ],  
        "usage_hint": "Command to add comment to this work item."  
      },  
      {  
        "description": "Closes the issue and all of its children issues.",  
        "function": "close_issue",  
        "name": "close",  
        "namespace": "devrev",  
        "surfaces": [  
          {  
            "object_types": [  
              "issue"  
            ],  
            "surface": "discussions"  
          }  
        ]  
      }  
    ]  
  }  
}
```

```

        "surface": "discussions"
      }
    ],
    "usage_hint": "[text]"
  }
],
"created_by": {
  "type": "dev_user",
  "display_handle": "sathyakumar",
  "display_id": "DEVU-1",
  "display_name": "sathyakumar",
  "email": "sathyakumar.webdev@gmail.com",
  "full_name": "Sathyakumar S",
  "id": "don:identity:dvr-v-in-1:devo/2okdMmZBbb:devu/1",
  "id_v1": "don:DEV-2okdMmZBbb:dev_user:DEVU-1",
  "state": "active",
  "thumbnail": "https://api.devrev.ai/internal/display-picture/Sathyakumar%20S.png"
},
"created_date": "2024-07-01T17:22:11.556Z",
"description": "Snap In to add Comments for demonstration purpose.",
"display_id": "snap_in_version-2d4b78ef-13c6-4848-8e28-dad021c0efbc",
"events": [
  {
    "display_name": "DevRev",
    "name": "devrev-webhook",
    "source": "dr/webhook/devorg",
    "source_config": {
      "event_types": [
        "work_created"
      ]
    }
  }
],
"functions": [
  {
    "config": {
      "runtime": {
        "max_retries": 3,
        "min_interval": 60
      }
    },
    "description": "Function to create a timeline entry comment on a DevRev work item created.",

```

```

"description": "Function to create a timeline entry comment on a DevRev work item created.",
"function_id": {
  "display_id": "snap_in_function-5afdbbe4-0963-464c-bead-f95e4b62bd9a",
  "id": "don:integration:dvr-v-in-1:devo/2okdMmZBbb:snap_in_function/5afdbbe4-0963-464c-bead-f95e4b62bd9a"
},
"name": "function_1",
"source_type": "artifact"
},
{
  "config": {
    "runtime": {
      "max_retries": 3,
      "min_interval": 60
    }
  },
  "description": "Function to create a timeline entry comment on a DevRev work item on which comment is added.",
  "function_id": {
    "display_id": "snap_in_function-c2664f91-84f4-4dd9-be2b-e2c45602d086",
    "id": "don:integration:dvr-v-in-1:devo/2okdMmZBbb:snap_in_function/c2664f91-84f4-4dd9-be2b-e2c45602d086"
  },
  "name": "function_2",
  "source_type": "artifact"
},
{
  "config": {
    "runtime": {
      "max_retries": 3,
      "min_interval": 60
    }
  },
  "description": "Function to close issue.",
  "function_id": {
    "display_id": "snap_in_function-fdbc0b3f-90ef-4669-8cef-c0745d4b0ed8",
    "id": "don:integration:dvr-v-in-1:devo/2okdMmZBbb:snap_in_function/fdbc0b3f-90ef-4669-8cef-c0745d4b0ed8"
  },
  "name": "close_issue",
  "source_type": "artifact"
}
],
"global_variables": [
  "{ \"name\": \"input_field_1\", \"description\": \"Input field to add comment to the work item.\", \"devrevFieldType\": \"text\", \"defaultValue\": \"Message from the input field.\", \"ui\": { \"displayName\": \"Input Field 1\" } }",

```

```

"global_variables": [
  {"name": "input_field_1", "description": "Input field to add comment to the work item.", "devrevFieldType": "text",
  "defaultValue": "Message from the input field.", "ui": {"displayName": "Input Field 1"}},
  {"name": "input_field_2", "description": "Add extra comment.", "devrevFieldType": "bool", "defaultValue": true, "ui": {"displayName": "Should extra comment be added?"}},
  {"name": "input_field_array", "description": "List of names to add as comment.", "devrevFieldType": "[]text", "defaultValue": [{"name1", "name2"}], "ui": {"displayName": "List of extra names"}, "validation": {}}
],
"id": "don:integration:dvr-in-1:devo/2okdMmZBbb:snap_in_package/fae364da-bb2e-4420-b3e0-3f3d58794e9b:snap_in_version/2d4b78ef-13c6-4848-8e28-dad021c0efbc",
"manifest": {
  "version": "2",
  "name": "Hello World Snap-In",
  "description": "Snap In to add Comments for demonstration purpose.",
  "service_account": {
    "display_name": "DevRev Bot",
    "organization": "devrev-webhook",
    "name": "devrev-webhook",
    "display_name": "DevRev",
    "type": "devrev-webhook",
    "config": {
      "event_types": "work_created",
      "inputs": {
        "organization": {
          "name": "input_field_1",
          "description": "Input field to add comment to the work item",
          "field_type": "text",
          "default_value": "Message from the input field.",
          "ui": {
            "display_name": "Input Field 1",
            "name": "input_field_2",
            "description": "Add extra comment.",
            "field_type": "bool",
            "default_value": true,
            "ui": {
              "display_name": "Should extra comment be added?",
              "name": "input_field_array",
              "description": "List of names to add as comment.",
              "base_type": "text",
              "field_type": "array",
              "default_value": [{"name1", "name2"}],
              "ui": {
                "display_name": "List of extra names",
                "name": "function_1",
                "description": "Function to create a timeline entry comment on a DevRev work item created.",
                "name": "function_2",
                "description": "Function to create a timeline entry comment on a DevRev work item on which comment is added.",
                "name": "close_issue",
                "description": "Function to close issue.",
                "name": "convergence_automation_devrev",
                "source": "devrev-webhook",
                "event_types": "work_created",
                "function": "function_1",
                "commands": {
                  "name": "comment_here",
                  "namespace": "devrev",
                  "description": "Command to trigger function to add comment to this work item.",
                  "surfaces": {
                    "surface": "discussions",
                    "object_types": {
                      "issue": {
                        "ticket": {
                          "usage_hint": "Command to add comment to this work item.",
                          "function": "function_2",
                          "name": "close",
                          "namespace": "devrev",
                          "description": "Closes the issue and all of its children issues.",
                          "surfaces": {
                            "surface": "discussions",
                            "object_types": {
                              "issue": {
                                "usage_hint": "[text]"
                              }
                            }
                          }
                        }
                      }
                    }
                  }
                }
              }
            }
          }
        }
      }
    }
  },
  "manifest_version": {
    "major": 2,
    "minor": 0,
    "patch": 0
  },
  "modified_by": {
    "type": "dev_user",
    "display_handle": "sathyakumar",
    "display_id": "DEVU-1",
    "display_name": "sathyakumar",
    "email": "sathyakumar.webdev@gmail.com",
    "full_name": "Sathyakumar S",
    "id": "don:identity:dvr-in-1:devo/2okdMmZBbb:devu/1",
  },
  "modified_by": {
    "type": "dev_user",
    "display_handle": "sathyakumar",
    "display_id": "DEVU-1",
    "display_name": "sathyakumar",
    "email": "sathyakumar.webdev@gmail.com",
    "full_name": "Sathyakumar S",
    "id": "don:identity:dvr-in-1:devo/2okdMmZBbb:devu/1",
    "id_v1": "don:DEV-2okdMmZBbb:dev_user:DEVU-1",
    "state": "active",
    "thumbnail": "https://api.devrev.ai/internal/display-picture/Sathyakumar%20S.png"
  },
  "modified_date": "2024-07-01T17:22:11.556Z",
  "name": "Hello World Snap-In",
  "service_account": {
    "description": "Service account for Snap-in Hello World Snap-In",
    "display_name": "DevRev Bot"
  },
  "slug": "hello_world_snap_in",
  "snap_in_package": {
    "display_id": "snap_in_package-fae364da-bb2e-4420-b3e0-3f3d58794e9b",
    "id": "don:integration:dvr-in-1:devo/2okdMmZBbb:snap_in_package/fae364da-bb2e-4420-b3e0-3f3d58794e9b"
  },
  "source_code_artifact": {
    "display_id": "artifact-6",
    "file": {
      "type": "application/x-gzip"
    },
    "id": "don:core:dvr-in-1:devo/2okdMmZBbb:artifact/6",
    "id_v1": "don:DEV-2okdMmZBbb:artifact/6",
    "original_url": "https://devrev-prod-artifacts-apsouth1.s3.dualstack.ap-south-1.amazonaws.com/aZT3wM0uUjPVR3q7JhxbEQ?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIARI5P5QQAPMNEIV65%2F20240701%2Fap-south-1%2Fs3%2Faws4_request&X-Amz-Date=20240701T172212Z&X-Amz-Expires=86400&X-Amz-SignedHeaders=host&response-cache-control=max-age%3D31536000&response-content-disposition=inline%3B%20filename%3DUTF-8%27%27build.tar.gz&X-Amz-Signature=30c63dc1359522a2175c2224cb9496ae14565fd7af8e223173f4ca1508a7f641",
    "preview_url": "https://devrev-prod-artifacts-apsouth1.s3.dualstack.ap-south-1.amazonaws.com/aZT3wM0uUjPVR3q7JhxbEQ?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIARI5P5QQAPMNEIV65%2F20240701%2Fap-south-1%2Fs3%2Faws4_request&X-Amz-Date=20240701T172212Z&X-Amz-Expires=86400&X-Amz-SignedHeaders=host&response-cache-control=max-age%3D31536000&response-content-disposition=inline%3B%20filename%3DUTF-8%27%27build.tar.gz&X-Amz-Signature=30c63dc1359522a2175c2224cb9496ae14565fd7af8e223173f4ca1508a7f641"
  },
  "state": "draft"
}
}

```

Snap-in version



snap_in draft

```
> devrev snap-in draft | jq .
```

```
F:\Job\DevRev\snap-ins-example\4-sample-snap-in\code>devrev snap_in draft | jq .
{
  "snap_in": {
    "automations": [
      {
        "name": "convergence_automation_devrev"
      }
    ],
    "commands": [
      {
        "name": "comment_here"
      }
    ],
    "created_by": {
      "type": "dev_user",
      "display_handle": "sathyakumar",
      "display_id": "DEVU-1",
      "display_name": "sathyakumar",
      "email": "sathyakumar.webdev@gmail.com",
      "full_name": "Sathyakumar S",
      "id": "don:identity:drrv-in-1:devo/2okdMmZBbb:devu/1",
      "id_v1": "don:DEV-2okdMmZBbb:dev_user:DEVU-1",
      "state": "active",
      "thumbnail": "https://api.devrev.ai/internal/display-picture/Sathyakumar%20S.png"
    },
    "created_date": "2024-07-01T17:51:33.824Z",
    "custom_fields": {
      "obj_globals input field 1": "Message from the input field.",

```

```
    "thumbnail": "https://api.devrev.ai/internal/display-picture/Sathyakumar%20S.png"
  },
  "created_date": "2024-07-01T17:51:33.824Z",
  "custom_fields": {
    "obj_globals_input_field_1": "Message from the input field.",
    "obj_globals_input_field_2": true,
    "obj_globals_input_field_array": [
      "name1",
      "name2"
    ]
  },
  "description": "Snap In to add Comments for demonstration purpose.",
  "display_id": "snap_in-fd9aef1e-a00b-4481-a678-0916b790dfa8",
  "event_sources": [
    {
      "name": "devrev-webhook"
    }
  ],
  "id": "don:integration:dvr-in-1:devo/2okdMmZBbb:snap_in/fd9aef1e-a00b-4481-a678-0916b790dfa8",
  "id_v1": "don:DEV-2okdMmZBbb:snap_in:snap_in-fd9aef1e-a00b-4481-a678-0916b790dfa8",
  "inputs": [
    {
      "name": "input_field_1",
      "value": "Message from the input field."
    },
    {
      "name": "input_field_2",
      "value": "true"
    },
    {
      "name": "input_field_array",
      "value": "[\"name1\", \"name2\"]"
    }
  ]
}
```



```

    "value": "[\"name1\\\", \"name2\\\"]"
  }
],
"inputs_schema": [
  {
    "field_type": "text",
    "db_name": "input_field_1",
    "default_value": "Message from the input field.",
    "description": "Input field to add comment to the work item.",
    "name": "input_field_1",
    "ui": {
      "display_name": "Input Field 1"
    }
  },
  {
    "field_type": "bool",
    "db_name": "input_field_2",
    "default_value": true,
    "description": "Add extra comment.",
    "name": "input_field_2",
    "ui": {
      "display_name": "Should extra comment be added?"
    }
  },
  {
    "field_type": "array",
    "base_type": "text",
    "db_name": "input_field_array",
    "default_value": [
      "name1",
      "name2"
    ],
    "description": "List of names to add as comment.",
    "name": "input_field_array",
    "ui": {
      "display_name": "List of extra names"
    }
  }
]

```

```

        "ui": {
            "display_name": "List of extra names"
        }
    ],
    "inputs_snap_kit": {
        "snaps": [
            {
                "block_id": "Hello World Snap-In_card",
                "elements": [
                    {
                        "block_id": "Hello World Snap-In_form",
                        "action_id": "Hello World Snap-In_form_action",
                        "action_type": "remote",
                        "elements": [
                            {
                                "block_id": "input_field_1_input",
                                "label": {
                                    "text": "Input Field 1",
                                    "block_id": "input_field_1_label",
                                    "type": "plain_text"
                                },
                                "hint": {
                                    "text": "Input field to add comment to the work item.",
                                    "block_id": "input_field_1_hint",
                                    "type": "plain_text"
                                },
                                "optional": true,
                                "element": {
                                    "block_id": "input_field_1",
                                    "action_id": "input_field_1",
                                    "action_type": "remote",
                                    "initial_value": "Message from the input field.",
                                    "multiline": true,
                                    "type": "plain_text_input"
                                },
                                "type": "input_layout"
                            }
                        ]
                    }
                ]
            }
        ]
    }
}

```

```

    },
    "type": "input_layout"
},
{
    "block_id": "input_field_2_input",
    "label": {
        "text": "Should extra comment be added?",
        "block_id": "input_field_2_label",
        "type": "plain_text"
    },
    "optional": true,
    "element": {
        "block_id": "input_field_2",
        "action_id": "input_field_2",
        "action_type": "remote",
        "initial_value": true,
        "description": {
            "text": "Add extra comment.",
            "block_id": "input_field_2_hint",
            "type": "plain_text"
        }
    },
    "type": "toggle"
},
    "type": "input_layout"
},
{
    "block_id": "input_field_array_input",
    "label": {
        "text": "List of extra names",
        "block_id": "input_field_array_label",
        "type": "plain_text"
    },
    "hint": {
        "text": "List of names to add as comment.",
        "block_id": "input_field_array_hint",
        "type": "plain_text"
    }
}

```

https://app.devrev.ai/sathyakumar/settings/snap-ins/snap_in-fd9aef1e-a00b-4481-a678-0916b790dfa8

```

        "block_id": "input_field_array_hint",
        "type": "plain_text"
    },
    "optional": true,
    "element": {
        "block_id": "input_field_array",
        "action_id": "input_field_array",
        "action_type": "remote",
        "initial_values": [
            "name1",
            "name2"
        ],
        "multiline": true,
        "type": "string_list"
    },
    "type": "input_layout"
}
],
"type": "form",
"submit_action": {
    "block_id": "Hello World Snap-In_form_submit_button",
    "action_id": "Hello World Snap-In_form_submit_action",
    "action_type": "remote",
    "text": {
        "text": "Save",
        "block_id": "Hello World Snap-In_form_submit_button_text",
        "type": "plain_text"
    },
    "value": "input_submit_button",
    "style": "primary",
    "type": "button"
}
}
],
"type": "card"
}
]

```

```

        "type": "card"
    }
}
];
"inputs_values": {
    "input_field_1": "Message from the input field.",
    "input_field_2": true,
    "input_field_array": [
        "name1",
        "name2"
    ]
},
"modified_by": {
    "type": "dev_user",
    "display_handle": "sathyakumar",
    "display_id": "DEVU-1",
    "display_name": "sathyakumar",
    "email": "sathyakumar.webdev@gmail.com",
    "full_name": "Sathyakumar S",
    "id": "don:identity:dvr-v-in-1:devo/2okdMmZBbb:devu/1",
    "id_v1": "don:DEV-2okdMmZBbb:dev_user:DEVU-1",
    "state": "active",
    "thumbnail": "https://api.devrev.ai/internal/display-picture/Sathyakumar%20S.png"
},
"modified_date": "2024-07-01T17:51:33.824Z",
"name": "Hello World Snap-In",
"per_object_schema": [
    {
        "field_type": "text",
        "db_name": "input_field_1",
        "default_value": "Message from the input field.",
        "description": "Input field to add comment to the work item.",
        "name": "globals_input_field_1",
        "ui": {
            "display_name": "Input Field 1"
        }
    }
]
},

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      "ui": {
        "display_name": "Input Field 1"
      },
    },
    {
      "field_type": "bool",
      "db_name": "input_field_2",
      "default_value": true,
      "description": "Add extra comment.",
      "name": "globals_input_field_2",
      "ui": {
        "display_name": "Should extra comment be added?"
      }
    },
    {
      "field_type": "array",
      "base_type": "text",
      "db_name": "input_field_array",
      "default_value": [
        "name1",
        "name2"
      ],
      "description": "List of names to add as comment.",
      "name": "globals_input_field_array",
      "ui": {
        "display_name": "List of extra names"
      }
    }
  ],
  "service_account": {
    "type": "service_account",
    "display_handle": "DevRev Bot",
    "display_id": "SVCACC-9",
    "display_name": "DevRev Bot",
    "id": "don:identity:dvr-v-in-1:devo/2okdMmZBbb:svcacc/9",
    "id_v1": "don:DEV-2okdMmZBbb:svc_acc:SVCACC-9",
    "state": "active",
    "thumbnail": "https://api.devrev.ai/internal/display-picture/DevRev%20Bot.png"
  }
}

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    "state": "active",
    "thumbnail": "https://api.devrev.ai/internal/display-picture/DevRev%20Bot.png"
  },
  "snap_in_config": {
    "global_inputs": [
      {
        "default_value": "Message from the input field.",
        "description": "Input field to add comment to the work item.",
        "display_name": "Input Field 1",
        "name": "input_field_1",
        "type": "string"
      },
      {
        "default_value": "true",
        "description": "Add extra comment.",
        "display_name": "Should extra comment be added?",
        "name": "input_field_2",
        "type": "bool"
      },
      {
        "default_value": "[\"name1\", \"name2\"]",
        "description": "List of names to add as comment.",
        "display_name": "List of extra names",
        "name": "input_field_array",
        "type": "string_list"
      }
    ]
  },
  "snap_in_version": {
    "display_id": "snap_in_version-0be738b8-c30c-4c75-a7e0-c9654c2f854b",
    "id": "don:integration:dvr-v-in-1:devo/2okdMmZBbb:snap_in_package/00942203-9051-414b-b710-93443e2e8241:snap_in_version/0be738b8-c30c-4c75-a7e0-c9654c2f854b",
    "status": "draft"
  }
}
}

```

Hello world snap-in, in DevRev workspace

