Creating a Snap-in:

1. Installation and Authentication:
   - Install DevRev CLI and jq
   - Log in to DevRev using:devrev profiles authenticate -o <dev-org-slug> -u

     <youremail@yourdomain.com>

2. Initializing a Snap-in Template: devrev snap_in_version init

3. Creating a Snap-in Package: devrev snap_in_package create-one --slug my-first-snap-in | jq .

4. Creating a Snap-in Version: devrev snap_in_version create-one --path ./devrev-snaps-typescript-template | jq .

5. Installing a Snap-in from a Version: devrev snap_in draft

6. Configuring the Snap-in:
   - Access the snap-in configuration through the URL generated by the draft command or via the DevRev app.
   - Follow the configuration steps, setting up keyrings and inputs if necessary.

7. Deploying the Snap-in:
   - Once configured, click on the "Deploy snap-in" button in the UI to activate it.

Snapshots:

```
C:\Users\anuko>devrev profiles authenticate -o nmam -u 4nm20is010@nmamit.in
https://auth.devrev.ai/authorize?access_type=offline&audience=janus&client_id=o4o4fpnvdAeisRnmkxOrZZ2Wt5wvzyGB&organization=org_v76I1YwiwzgsXXYt
&redirect_uri=http%3A%2F%2Flocalhost%3A3000&response_type=code&scope=openid+profile+email+offline_access&state=1s8O9yn1nLCmJspuS7qBSgpJrgwcJvxai
1NbEXuCgfeT5OLAgv2PS6255zDbUbKxoBIfgP40iMgoZSCEK_LKiQ%3D%3D

C:\Users\anuko>devrev snap_in_version init
devrev-snaps-typescript-template folder already exists
```

```
C:\Users\anuko>devrev snap_in_package create-one --slug my-first-snap-in-first
{"snap_in_package":{"created_by":{"type":"dev_user","display_handle":"Anagha","display_id":"DEVU-1","display_name":"Anagha","email":"4nm20is010@
nmamit.in","full_name":"ANAGHA K","id":"don:identity:dvrv-us-1:devo/1UBvwN6wXX:devu/1","id_v1":"don:DEV-1UBvwN6wXX:dev_user:DEVU-1","state":"act
ive","thumbnail":"https://api.devrev.ai/internal/display-picture/ANAGHA%20K.svg"},"created_date":"2024-04-11T13:35:20.382Z","display_id":"snap_i
n_package-ec9a3adf-5b4f-44bc-8c2f-a08b9179bbb4","id":"don:integration:dvrv-us-1:devo/1UBvwN6wXX:snap_in_package/ec9a3adf-5b4f-44bc-8c2f-a08b9179
bbb4","modified_by":{"type":"dev_user","display_handle":"Anagha","display_id":"DEVU-1","display_name":"Anagha","email":"4nm20is010@nmamit.in","f
ull_name":"ANAGHA K","id":"don:identity:dvrv-us-1:devo/1UBvwN6wXX:devu/1","id_v1":"don:DEV-1UBvwN6wXX:dev_user:DEVU-1","state":"active","thumbna
il":"https://api.devrev.ai/internal/display-picture/ANAGHA%20K.svg"},"modified_date":"2024-04-11T13:35:20.382Z","slug":"my-first-snap-in-first"}
}
```

```
C:\Users\anuko>devrev snap_in_package create-one --slug my-first-snap-in-try | jq .
{
  "snap_in_package": {
    "created_by": {
      "type": "dev_user",
      "display_handle": "Anagha",
      "display_id": "DEVU-1",
      "display_name": "Anagha",
      "email": "4nm20is010@nmamit.in",
      "full_name": "ANAGHA K",
      "id": "don:identity:dvrv-us-1:devo/1UBvwN6wXX:devu/1",
      "id_v1": "don:DEV-1UBvwN6wXX:dev_user:DEVU-1",
      "state": "active",
      "thumbnail": "https://api.devrev.ai/internal/display-picture/ANAGHA%20K.svg"
    },
    "created_date": "2024-04-11T13:48:21.448Z",
    "display_id": "snap_in_package-58d07fa4-7385-45a5-96b3-561afdcaedbd",
    "id": "don:integration:dvrv-us-1:devo/1UBvwN6wXX:snap_in_package/58d07fa4-7385-45a5-96b3-561afdcaedbd",
    "modified_by": {
      "type": "dev_user",
      "display_handle": "Anagha",
      "display_id": "DEVU-1",
      "display_name": "Anagha",
      "email": "4nm20is010@nmamit.in",
      "full_name": "ANAGHA K",
      "id": "don:identity:dvrv-us-1:devo/1UBvwN6wXX:devu/1",
      "id_v1": "don:DEV-1UBvwN6wXX:dev_user:DEVU-1",
      "state": "active",
      "thumbnail": "https://api.devrev.ai/internal/display-picture/ANAGHA%20K.svg"
    },
    "modified_date": "2024-04-11T13:48:21.448Z",
    "slug": "my-first-snap-in-try"
  }
}
```

```
C:\Users\anuko>devrev snap_in_version create-one --path ./devrev-snaps-typescript-template | jq .

up to date, audited 1113 packages in 3s

124 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.

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


> 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
```

```json
{
  "snap_in_version": {
    "automations": [
      {
        "event_source": "devrev-event-source",
        "event_types": [
          "work_created"
        ],
        "function": "on_work_creation",
        "name": "handle-work-created-event"
      }
    ],
    "created_by": {
      "type": "dev_user",
      "display_handle": "Anagha",
      "display_id": "DEVU-1",
      "display_name": "Anagha",
      "email": "4nm20is010@nmamit.in",
      "full_name": "ANAGHA K",
      "id": "don:identity:dvrv-us-1:devo/1UBvwN6wXX:devu/1",
      "id_v1": "don:DEV-1UBvwN6wXX:dev_user:DEVU-1",
      "state": "active",
      "thumbnail": "https://api.devrev.ai/internal/display-picture/ANAGHA%20K.svg"
    },
    "created_date": "2024-04-11T13:51:15.685Z",
    "description": "Logs a message when a work item is created",
    "display_id": "snap_in_version-13315733-8bf2-4c49-aec7-840940f6751e",
    "events": [
      {
        "description": "Event source listening on DevRev events.",
        "display_name": "DevRev events listener",
        "name": "devrev-event-source",
        "source": "dr/webhook/devorg",
        "source_config": {
          "event_types": [
```

```
    "display_id": "snap_in_version-13315733-8bf2-4c49-aec7-840940f6751e",
    "events": [
      {
        "description": "Event source listening on DevRev events.",
        "display_name": "DevRev events listener",
        "name": "devrev-event-source",
        "source": "dr/webhook/devorg",
        "source_config": {
          "event_types": [
            "work_created"
          ]
        }
      }
    ],
    "functions": [
      {
        "description": "function to trigger on work creation",
        "function_id": {
          "id": "don:integration:dvrv-us-1:devo/1UBvwN6wXX:snap_in_function/f5101ee1-c24c-40f4-bd9a-6c7531c2c76c"
        },
        "name": "on_work_creation",
        "source_type": "artifact"
      }
    ],
    "global_variables": [
      "{\"name\":\"sample_value\",\"description\":\"Sample input value.\",\"devrevFieldType\":\"text\",\"defaultValue\":\"primary\",\"ui\":{\"displayName\":\"Sample Value\"}}"
    ],
    "id": "don:integration:dvrv-us-1:devo/1UBvwN6wXX:snap_in_package/58d07fa4-7385-45a5-96b3-561afdcaedbd:snap_in_version/13315733-8bf2-4c49-aec7-840940f6751e",
    "manifest": "# For reference: https://docs.devrev.ai/snap-ins/references/manifest.\n# Refactor the code based on your business logic.\n\nversion: \"2\"\n\nname: \"Work Tracker\"\ndescription: \"Logs a message when a work item is created\"\n\n# This is the name displayed in DevRev where the Snap-In takes actions using the token of this service account.\nservice_account:\n  display_name: DevRev Bot\n\n# Add any external connection, reference: https://docs.devrev.ai/snap-ins/concepts#connection.\n\n# Add organization level inputs, reference: https://docs.devrev.ai/snap-ins/references/inputs.\ninputs:\n  organization:\n    - name: sample_value\n      description: Sample input value.\n      field_type: text\n      default_value: \"primary\"\n      ui:\n        display_name: Sample Value\n\n# Event source reference: https://docs.devrev.ai/snap-ins/referenc
```
```
      "full_name": "ANAGHA K",
      "id": "don:identity:dvrv-us-1:devo/1UBvwN6wXX:devu/1",
      "id_v1": "don:DEV-1UBvwN6wXX:dev_user:DEVU-1",
      "state": "active",
      "thumbnail": "https://api.devrev.ai/internal/display-picture/ANAGHA%20K.svg"
    },
    "modified_date": "2024-04-11T13:51:15.685Z",
    "name": "Work Tracker",
    "service_account": {
      "description": "Service account for Snap-in Work Tracker",
      "display_name": "DevRev Bot"
    },
    "slug": "my-first-snap-in-try",
    "snap_in_package": {
      "id": "don:integration:dvrv-us-1:devo/1UBvwN6wXX:snap_in_package/58d07fa4-7385-45a5-96b3-561afdcaedbd"
    },
    "source_code_artifact": {
      "display_id": "artifact-2",
      "file": {
        "type": "application/x-gzip"
      },
      "id": "don:core:dvrv-us-1:devo/1UBvwN6wXX:artifact/2",
      "id_v1": "don:DEV-1UBvwN6wXX:artifact:2",
      "original_url": "https://devrev-prod-artifacts.s3.dualstack.us-east-1.amazonaws.com/XffDodbUfXOjQ8-IerzUHA?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIARI5P5QQABR3STM4S%2F20240411%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20240411T135115Z&X-Amz-Expires=86400&X-Amz-SignedHeaders=host&response-cache-control=max-age%3D31536000&response-content-disposition=inline%3B%20filename%2A%3DUTF-8%27%27build.tar.gz&X-Amz-Signature=3c86d53b948f7406e2d2a1ffcf8a51b8c826bcecb41a22024f6f43482f9efdc3",
      "preview_url": "https://devrev-prod-artifacts.s3.dualstack.us-east-1.amazonaws.com/XffDodbUfXOjQ8-IerzUHA?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIARI5P5QQABR3STM4S%2F20240411%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20240411T135115Z&X-Amz-Expires=86400&X-Amz-SignedHeaders=host&response-cache-control=max-age%3D31536000&response-content-disposition=inline%3B%20filename%2A%3DUTF-8%27%27build.tar.gz&X-Amz-Signature=3c86d53b948f7406e2d2a1ffcf8a51b8c826bcecb41a22024f6f43482f9efdc3"
    },
    "state": "draft"
  }
}
```

```
C:\Users\anuko>devrev snap_in_version list
{"automations":[{"event_source":"devrev-event-source","event_types":["work_created"],"function":"on_work_creation","name":"handle-work-created-e
vent"}],"created_by":{"type":"dev_user","display_handle":"Anagha","display_id":"DEVU-1","display_name":"Anagha","email":"4nm20is010@nmamit.in","
full_name":"ANAGHA K","id":"don:identity:dvrv-us-1:devo/1UBvwN6wXX:devu/1","id_v1":"don:DEV-1UBvwN6wXX:dev_user:DEVU-1","state":"active","thumbn
ail":"https://api.devrev.ai/internal/display-picture/ANAGHA%20K.svg"},"created_date":"2024-04-11T13:51:15.685Z","description":"Logs a message wh
en a work item is created","display_id":"snap_in_version-13315733-8bf2-4c49-aec7-840940f6751e","events":[{"description":"Event source listening
on DevRev events.","display_name":"DevRev events listener","name":"devrev-event-source","source":"dr/webhook/devorg","source_config":{"event_typ
es":["work_created"]}}],"functions":[{"description":"function to trigger on work creation","function_id":{"id":"don:integration:dvrv-us-1:devo/1
UBvwN6wXX:snap_in_function/f5101ee1-c24c-40f4-bd9a-6c7531c2c76c"},"name":"on_work_creation","source_type":"artifact"}],"global_variables":["{\"n
ame\":\"sample_value\",\"description\":\"Sample input value.\",\"devrevFieldType\":\"text\",\"defaultValue\":\"primary\",\"ui\":{\"displayName\"
:\"Sample Value\"}}"],"id":"don:integration:dvrv-us-1:devo/1UBvwN6wXX:snap_in_package/58d07fa4-7385-45a5-96b3-561afdcaedbd:snap_in_version/13315
733-8bf2-4c49-aec7-840940f6751e","manifest_version":{"major":2,"minor":0,"patch":0},"modified_by":{"type":"dev_user","display_handle":"Anagha","
display_id":"DEVU-1","display_name":"Anagha","email":"4nm20is010@nmamit.in","full_name":"ANAGHA K","id":"don:identity:dvrv-us-1:devo/1UBvwN6wXX:
devu/1","id_v1":"don:DEV-1UBvwN6wXX:dev_user:DEVU-1","state":"active","thumbnail":"https://api.devrev.ai/internal/display-picture/ANAGHA%20K.svg
"},"modified_date":"2024-04-11T13:51:32.447Z","name":"Work Tracker","service_account":{"description":"Service account for Snap-in Work Tracker",
"display_name":"DevRev Bot"},"slug":"my-first-snap-in-try","snap_in_package":{"id":"don:integration:dvrv-us-1:devo/1UBvwN6wXX:snap_in_package/58
d07fa4-7385-45a5-96b3-561afdcaedbd"},"source_code_artifact":{"display_id":"artifact-2","file":{"type":"application/x-gzip"},"headers":{"content_
disposition":"inline"},"id":"don:core:dvrv-us-1:devo/1UBvwN6wXX:artifact/2","id_v1":"don:DEV-1UBvwN6wXX:artifact:2","original_url":"https://devr
ev-prod-artifacts.s3.dualstack.us-east-1.amazonaws.com/XffDodbUfXOjQ8-IerzUHA?X-Amz-Algorithm=AWS4-HMAC-SHA256\u0026X-Amz-Credential=AKIARI5P5QQ
ABR3STM4S%2F20240411%2Fus-east-1%2Fs3%2Faws4_request\u0026X-Amz-Date=20240411T135115Z\u0026X-Amz-Expires=86400\u0026X-Amz-SignedHeaders=host\u00
26response-cache-control=max-age%3D31536000\u0026response-content-disposition=inline%3B%20filename%2A%3DUTF-8%27%27build.tar.gz\u0026X-Amz-Signa
ture=3c86d53b948f7406e2d2a1ffcf8a51b8c826bcecb41a22024f6f43482f9efdc3","preview_url":"https://devrev-prod-artifacts.s3.dualstack.us-east-1.amazo
naws.com/XffDodbUfXOjQ8-IerzUHA?X-Amz-Algorithm=AWS4-HMAC-SHA256\u0026X-Amz-Credential=AKIARI5P5QQABR3STM4S%2F20240411%2Fus-east-1%2Fs3%2Faws4_r
equest\u0026X-Amz-Date=20240411T135115Z\u0026X-Amz-Expires=86400\u0026X-Amz-SignedHeaders=host\u0026response-cache-control=max-age%3D31536000\u0
026response-content-disposition=inline%3B%20filename%2A%3DUTF-8%27%27build.tar.gz\u0026X-Amz-Signature=3c86d53b948f7406e2d2a1ffcf8a51b8c826bcecb
41a22024f6f43482f9efdc3"},"state":"ready"}
```

```
C:\Users\anuko>devrev snap_in draft
{"snap_in":{"automations":[{"name":"handle-work-created-event"}],"created_by":{"type":"dev_user","display_handle":"Anagha","display_id":"DEVU-1"
,"display_name":"Anagha","email":"4nm20is010@nmamit.in","full_name":"ANAGHA K","id":"don:identity:dvrv-us-1:devo/1UBvwN6wXX:devu/1","id_v1":"don
:DEV-1UBvwN6wXX:dev_user:DEVU-1","state":"active","thumbnail":"https://api.devrev.ai/internal/display-picture/ANAGHA%20K.svg"},"created_date":"2
024-04-11T13:52:28.206Z","custom_fields":{"obj__globals_sample_value":"primary"},"description":"Logs a message when a work item is created","dis
play_id":"snap_in-8176c579-94c6-49b5-82a2-c34007531315","event_sources":[{"name":"devrev-event-source"}],"id":"don:integration:dvrv-us-1:devo/1U
BvwN6wXX:snap_in/8176c579-94c6-49b5-82a2-c34007531315","id_v1":"don:DEV-1UBvwN6wXX:snap_in:snap_in-8176c579-94c6-49b5-82a2-c34007531315","inputs
":[{"name":"sample_value","value":"primary"}],"inputs_schema":[{"field_type":"text","default_value":"primary","description":"Sample input value.
","name":"sample_value","ui":{"display_name":"Sample Value"}}],"inputs_kit":{"snaps":[{"block_id":"Work Tracker_card","elements":[{"block_i
d":"Work Tracker_form","action_id":"Work Tracker_form_action","action_type":"remote","elements":[{"block_id":"sample_value_input","label":{"text
":"Sample Value","block_id":"sample_value_label","type":"plain_text"},"hint":{"text":"Sample input value.","block_id":"sample_value_hint","type"
:"plain_text"},"optional":true,"element":{"block_id":"sample_value","action_id":"sample_value","action_type":"remote","initial_value":"primary",
"multiline":true,"type":"plain_text_input"},"type":"input_layout"}],"type":"form","submit_action":{"block_id":"Work Tracker_form_submit_button",
"action_id":"Work Tracker_form_submit_action","action_type":"remote","text":{"text":"Save","block_id":"Work Tracker_form_submit_button_text","ty
pe":"plain_text"},"value":"input_submit_button","style":"primary","type":"button"}],"type":"card"}],"inputs_values":{"sample_value":"primary"}
,"modified_by":{"type":"dev_user","display_handle":"Anagha","display_id":"DEVU-1","display_name":"Anagha","email":"4nm20is010@nmamit.in","full_n
ame":"ANAGHA K","id":"don:identity:dvrv-us-1:devo/1UBvwN6wXX:devu/1","id_v1":"don:DEV-1UBvwN6wXX:dev_user:DEVU-1","state":"active","thumbnail":"
https://api.devrev.ai/internal/display-picture/ANAGHA%20K.svg"},"modified_date":"2024-04-11T13:52:28.206Z","name":"Work Tracker","per_object_sch
ema":[{"field_type":"text","default_value":"primary","description":"Sample input value.","name":"globals_sample_value","ui":{"display_name":"Sam
ple Value"}}],"service_account":{"type":"service_account","display_handle":"DevRev Bot","display_id":"SVCACC-7","display_name":"DevRev Bot","id"
:"don:identity:dvrv-us-1:devo/1UBvwN6wXX:svcacc/7","id_v1":"don:DEV-1UBvwN6wXX:svc_acc:SVCACC-7","state":"active","thumbnail":"https://api.devre
v.ai/internal/display-picture/DevRev%20Bot.svg"},"snap_in_config":{"global_inputs":[{"default_value":"primary","description":"Sample input value
.","display_name":"Sample Value","name":"sample_value","type":"string"}]},"snap_in_version":{"display_id":"snap_in_version-13315733-8bf2-4c49-ae
c7-840940f6751e","id":"don:integration:dvrv-us-1:devo/1UBvwN6wXX:snap_in_package/58d07fa4-7385-45a5-96b3-561afdcaedbd:snap_in_version/13315733-8
bf2-4c49-aec7-840940f6751e"},"status":"draft"}}
https://app.devrev.ai/nmam/settings/snap-ins/snap_in-8176c579-94c6-49b5-82a2-c34007531315
```

```
C:\Users\anuko>devrev snap_in_package logs --after "2024-04-11T00:00:00Z" | jq
{
  "incomplete_results": false,
  "log_summary": {
    "total": {
      "relation": "eq",
      "value": 93
    }
  },
  "logs": [
    {
      "id": "QmZtzY4BqIYIEzOvfKGC",
      "level": "info",
      "msg": "Build logs end.",
      "process": "build",
      "snap_in_package": "don:integration:dvrv-us-1:devo/1UBvwN6wXX:snap_in_package/58d07fa4-7385-45a5-96b3-561afdcaedbd",
      "snap_in_version": "don:integration:dvrv-us-1:devo/1UBvwN6wXX:snap_in_package/58d07fa4-7385-45a5-96b3-561afdcaedbd:snap_in_version/1331573
3-8bf2-4c49-aec7-840940f6751e",
      "timestamp": "2024-04-11T13:51:26.396Z"
    },
    {
      "id": "QWZtzY4BqIYIEzOvfKGC",
      "level": "info",
      "msg": "copying artifact to /tmp/build_468601726/on_work_creation.zip from /tmp/build_468601726/snap_in_runner_node/output.zip",
      "process": "build",
      "snap_in_package": "don:integration:dvrv-us-1:devo/1UBvwN6wXX:snap_in_package/58d07fa4-7385-45a5-96b3-561afdcaedbd",
      "snap_in_version": "don:integration:dvrv-us-1:devo/1UBvwN6wXX:snap_in_package/58d07fa4-7385-45a5-96b3-561afdcaedbd:snap_in_version/1331573
3-8bf2-4c49-aec7-840940f6751e",
      "timestamp": "2024-04-11T13:51:26.396Z"
    },
    {
      "id": "QGZtzY4BqIYIEzOvfKGC",
      "level": "info",
      "msg": "",
      "process": "build"
```