**QR-code and URL for workshop**

[**https://tinyurl.com/qdevhyd**](https://tinyurl.com/qdevhyd)

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**Pre-requisite for workshop**

**Leverage your email to establish an AWS Builder ID, which will serve as your gateway to a comprehensive cloud learning experience. If you haven't already created one, now is an excellent opportunity to set up this versatile credential. This Builder ID will not only facilitate your current workshop but also provide ongoing access to AWS's robust ecosystem of resources and learning opportunities.**

<https://profile.aws.amazon.com/> or use below QR code:



**How to access for workshop env**

<https://catalog.workshops.aws/devexp-qbuilder/en-US/20-configuration/10-event>

or use below QR code:



|  |
| --- |
| Note: Please do not share to anyone outside this workshop |
| Direct Link for workshop access: <https://catalog.us-east-1.prod.workshops.aws/join?access-code=230f-050a6e-6f>  Direct Link for workshop access: <https://catalog.us-east-1.prod.workshops.aws/join?access-code=230f-050a6e-6f>  If you need event code to access lab: **230f-050a6e-6f**  If you need event code to access lab: **230f-050a6e-6f** |

Bookmark following lab reference, you will need it throughout the day of your workshop. Lets call it as “Immersion day content” or “SOP of the day”

<https://catalog.us-east-1.prod.workshops.aws/workshops/e2226eb6-f109-47ae-b2c5-f02bf73b7d0e/en-US>

**Lab setup and configuration**

<https://catalog.workshops.aws/devexp-qbuilder/en-US/20-configuration/10-event>

login in browser based VS code as per instructions given in above link and validate if python env:

open the terminal window in VS code

run below:

**python3 –version**

**python --version**

if there is issue in above commands then fix using section “[Python language setup](#python_setup)” given later in same doc.

**Lab instructions**

<https://catalog.workshops.aws/devexp-qbuilder/en-US/30-sdlc/10-understand>

<https://catalog.workshops.aws/devexp-qbuilder/en-US/30-sdlc/20-plan>

1. [Using Amazon Q Developer throughout SDLC](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc)
   * [Understand & Learn Phase](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc/10_understand)
   * [Plan & Decide Phase](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc/20_plan)
   * [Develop Phase](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc/30_develop)
     + [Code Generation](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc/30_develop/20_basic_prompting)
     + [Creating Classes](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc/30_develop/30_classes)
     + [Generating Unit Tests](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc/30_develop/40_unit_testing)
   * [Review Phase](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc/40_review)
     + [Securing Code](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc/40_review/10_security)
     + [Optimizing Code](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc/40_review/20_optimize)
   * [Maintain Phase](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc/60_maintain)
     + [Feature Development](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc/60_maintain/10_featuredev)
     + [Replatforming](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc/60_maintain/20_replatform)
     + [Language Conversion](https://catalog.workshops.aws/devexp-qbuilder/en-US/30_sdlc/60_maintain/30_conversion)
2. [Algorithms](https://catalog.workshops.aws/devexp-qbuilder/en-US/40_functional_references/20_algos/)
3. [Object Oriented Programming](https://catalog.workshops.aws/devexp-qbuilder/en-US/40_functional_references/30_oop)
4. [Fake Data Generation](https://catalog.workshops.aws/devexp-qbuilder/en-US/40_functional_references/40_fake_data/)
5. [Regular Expressions](https://catalog.workshops.aws/devexp-qbuilder/en-US/40_functional_references/70_regular_expression/)
6. [SQL](https://catalog.workshops.aws/devexp-qbuilder/en-US/40_functional_references/80_sql)
7. [Jupyter Notebook](https://catalog.workshops.aws/devexp-qbuilder/en-US/40_functional_references/90_Jupyter_notebook/)
8. [AWS Services](https://catalog.workshops.aws/devexp-qbuilder/en-US/40_functional_references/120_aws/)
9. [Conversational coding flow](https://catalog.workshops.aws/devexp-qbuilder/en-US/40_functional_references/110_Q/16_conversational_code_flow)
10. [Generating code documentation](https://catalog.workshops.aws/devexp-qbuilder/en-US/40_functional_references/110_Q/25_comment)
11. [Modernize at scale using Agent for Code Transformation: Java](https://catalog.workshops.aws/devexp-qbuilder/en-US/40_functional_references/110_Q/50_qct)
12. [End to End Solutions with Amazon Q Developer](https://catalog.workshops.aws/devexp-qbuilder/en-US/2000_end_to_end_apps/)
13. **For Streamlit project, follow on**

<https://catalog.workshops.aws/devexp-qbuilder/en-US/2000-end-to-end-apps/05-python/05-streamlit-application>

**Python language setup**

<https://catalog.workshops.aws/devexp-qbuilder/en-US/20-configuration/30-language-setup>

check if python command is not working on terminal prompt then follow below:

|  |
| --- |
| # Update package list  **sudo apt update**  # Install Python 3  **sudo apt install python3**  # Verify the installation  **python3 –version**  # Add to your ~/.bashrc or ~/.zshrc file  **alias python=python3**  or  # First check where python3 is located  **which python3**  # Create a symbolic link (replace /usr/bin/python3 with your actual python3 path)  **sudo ln -sf /usr/bin/python3 /usr/bin/python**  **python --version**  **python3 –version** |

If you are using loaner laptop or need wifi access, please [download](https://shailesh-download-info.s3.ap-south-1.amazonaws.com/i.docx?response-content-disposition=inline&X-Amz-Content-Sha256=UNSIGNED-PAYLOAD&X-Amz-Security-Token=IQoJb3JpZ2luX2VjEP%2F%2F%2F%2F%2F%2F%2F%2F%2F%2F%2FwEaCmFwLXNvdXRoLTEiRjBEAiBBNAxcJO44DggEGqGo48BffdPVw00KRi33CTkXhLmfcAIgQS%2BGDudcqELbcuHhqHAgXrwzDIcvJmgpAjIRvye3iroq0wMIuP%2F%2F%2F%2F%2F%2F%2F%2F%2F%2FARABGgwwNDAwMjEyMzA3OTgiDOtzMXFhRVFoRPN1NyqnA7DmInOSL8QQRyyC%2BiL4Ma01vI0zYHoM%2BLcQEUpyYYZwwtdpaB8oBFsWfq%2Fk%2F3XNvYGtNxkcg4wi1g9sevcKRnSf1%2B3vAMKLBreaBPpWl8lbQPkVZe2VxdHuq8TrGr9ID8hCIz2bRT0yL4HkEDfOkGSonLpB%2Bd0VCM7inGBrwDXU5dundH0IuPzH5yxA%2FwZ7H7ScxT71%2BXCkKOTga06cd4VeRI9Ad5KDZEEejcKeqsjhvLTrX9IMsNkVypcLTodXzvApO9LL9IjjhOwqijPUBgFHLvo3IXVwz63RyEvPHp1jGgWu9YSmH9S%2FQYqYKkQEeL47y8zbkArx10JJtcl4Denumfb7NKdH%2FkwjFDl37IwXAj%2B%2BiHrX55OzBxz%2FVdxG0iyu0TKub6qUhqPL%2BU2ncAii0sxDYqs1KWR%2FDlm%2FpoH9rCRNLmOh9R3uJauCC%2FHiayzhtsYBJ4p2OXBpykZAf2xCXI6dX4Bpgbq%2FcQRj%2FdYziVIWcZ0ZkkG9DXDIapFYE5feVAQrsscuKcgqIINXNVhLmx1mJsVfgJqwaJKk1i7SO9NmdVFtJTDbj%2Bq6Bjq4AgR7rWir32EQuQhZ4LCeKG7ueM72ZoqeQ8PyXz5w0h%2F9AsrViuzF1lbCk7nuh%2FaBXQuitUpSCHFZJg8rsN%2BQDbDBC0V2QCLHqKXYRjTIgN8NZj%2BRHGsIcC6M3C4ZJz%2Bgo1%2FFfLhXccfQnaIwdrz9Y4DwJXGxy13fzNzTuKV5cFwA%2B0CX2SwXP6HVKp7jscKanu1DEtHzNRdfdN1Q9vuDFxfv74erS9OaLUVziIakV0udcr88EjqGFw8ioVPfyb5CxizaNEwsj4TNKEhof6VRQzqz%2BkVkiW4tWcmkl%2BDq1qyLJ2fPf%2BIU07VkGvZgngsXVH7ijzTFfBb8hhgXVUyvQGlHSg6EeE0moffHo45ZfALlf0%2FycrLCs3Tf0vZc3k4R%2FwX6tO3tn%2BlxerNEPQI8oTUI0Xaua0fG6Q%3D%3D&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=ASIAQSULTQTHD4HF65KS%2F20241212%2Fap-south-1%2Fs3%2Faws4_request&X-Amz-Date=20241212T070050Z&X-Amz-Expires=43200&X-Amz-SignedHeaders=host&X-Amz-Signature=d53180cd4825ee99287d2468fd3eec107154bad81dcb28b91eb2ca45b51b06e5)