



Centurion
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School: Campus:

Academic Year: Subject Name: Subject Code:

Semester: Program: Branch: Specialization:

Date:

Applied and Action Learning

(Learning by Doing and Discovery)

Name of the Experiment : Wallet on Testnet – Set Up and Transact.

Objective/Aim:

- To setup a MetaMask wallet.
- To connect it to the Sepolia Ethereum testnet.
- To receive Sepolia test ETH from a faucet.
- To prepare the wallet for test transactions and smart contract deployment.

Apparatus/Software Used:

- Laptop/PC
- PowerPoint/Word for documentation
- Internet for research

Theory/Concept:

□ **MetaMask** is a crypto wallet and gateway to blockchain apps. It allows users to manage private keys and interact with decentralized applications (dApps).

□ **Sepolia Testnet** is a public Ethereum test network used to test smart contracts and dApps without using real ETH.

□ **Faucet** is a service that gives out free testnet ETH for development and testing purposes.

□ **Testnet ETH** has no real-world value but mimics real ETH for safe experimentation.

Procedure:

- Step.1-** Open [Chrome Web Store](#) and install MetaMask extension.
- Step.2-** Create a MetaMask wallet or import using a seed phrase.
- Step.3-** Enable **test networks** in MetaMask settings.
- Step.4-** Switch to the **Sepolia** network.
- Step.5-** Copy your MetaMask wallet address.
- Step.6-** Visit the [Google Sepolia Faucet](#).
- Step.7-** Paste your wallet address and click “**Receive 0.05 Sepolia ETH**”.
- Step.8-** Wait for confirmation. Your test ETH will appear in MetaMask.

The image consists of two screenshots of the MetaMask extension. The top screenshot is from the Chrome Web Store, showing the MetaMask extension page. It features a large orange banner with the text "Buy, sell, swap thousands of tokens". Below the banner is a smartphone icon displaying a digital wallet interface with a balance of \$20,411.52. The extension has a rating of 2.7 stars and 5.5K ratings, with 14,000,000 users. The bottom screenshot shows the MetaMask extension running in a browser window. The dashboard displays "Account 1" with address 0x98F69...31cE9. It shows a portfolio value of +\$0 (+0.00%) and a message "Solana is now supported". There are tabs for "Tokens", "NFTs", and "Activity". The status bar at the bottom of the browser window shows the date as 7/22/2025 and the time as 2:12 PM.

Procedure:

The image consists of three vertically stacked screenshots of a Windows desktop environment, likely demonstrating a step-by-step procedure for interacting with a blockchain faucet.

Top Panel: A screenshot of a MetaMask extension window titled "Select a network". It shows a list of networks including "Sepolia", "Polygon Mainnet", "zkSync Era Mainnet", "Solana", "Linea Sepolia", "Mega Testnet", and "Monad Testnet". A message at the top states "Solana is now supported. Create a Solana account to get started." Below the network list, there's a "Tokens" section showing "SepoliaETH". A button "+ Add a custom network" is visible. The status bar at the bottom right indicates "No conversion rate available" and "0 SepoliaETH".

Middle Panel: A screenshot of a web browser window titled "Ethereum Sepolia Faucet". The URL is "cloud.google.com/application/web3/faucet/ethereum/sepolia". The page displays the "Ethereum Sepolia Faucet" section, which says "Get free Sepolia ETH sent directly to your wallet. Brought to you by Google Cloud for Web3.". It features a dropdown menu set to "Ethereum Sepolia", a text input field containing a wallet address ("0x98F6963d482f2392B8F550805452ea010aB31cE9"), and a button "Receive 0.05 Sepolia ETH". A note below states: "Note: We securely handle the provided wallet address while processing your request. This data is not used by any other Google services." A sidebar on the left lists various Google Cloud Web3 services like Home, Discover, Faucet, Web3 AI, Events, Learn, Community, Universal Ledger, Startup Program, Discord, and Feedback.

Bottom Panel: A screenshot of the same "Ethereum Sepolia Faucet" page, but now showing a message "Drip in queue". It says "Your testnet tokens are on the way! This may take a few moments." Below this, it shows the "Network" as "Ethereum Sepolia", the "Recipient" as the same wallet address, and the "Transaction hash (pending)" as "0xb9fb109a9e8a30472a7bc84d9228690876dde41abcba6a2df63452dd276f44d". The sidebar on the left remains the same as the middle panel.

Observation Table

Observation Point	Details
MetaMask Installation	Successfully added via Chrome Web Store
Wallet Address	0x98F6...31cE9
Selected Network	Sepolia (test network enabled)
Test ETH Request	Submitted successfully via Google Sepolia Faucet
Faucet Transaction Status	Pending (awaiting confirmation on Sepolia testnet)
SepoliaETH Balance	Initially 0 ETH, will update once faucet TX is complete

ASSESSMENT

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/ Practical Simulation/ Programming	10		
Result and Interpretation	10		
Record of Applied and Action Learning	10		
	10		<i>Signature of the Student:</i>
			<i>Name : Regn.No.</i>

Signature of the Faculty: