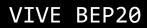




0x953b8c871cd31527dbb67dc071c507e34aea3838







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### Global Disclaimer

This document serves as a disclaimer for the crypto smart contract audit conducted by Skeleton Ecosystem. The purpose of the audit was to review the codebase of the smart contracts for potential vulnerabilities and issues. It is important to note the following:

Limited Scope: The audit is based on the code and information available up to the audit completion date. It does not cover external factors, system interactions, or changes made after the audit. The audit itself can not guarantee 100% safaty and can not detect common scam methods like farming and developer sell-out.

No Guarantee of Security: While we have taken reasonable steps to identify vulnerabilities, it is impossible to guarantee the complete absence of security risks or issues. The audit report provides an assessment of the contract's security as of the audit date.

Continued Development: Smart contracts and blockchain technology are evolving fields. Updates, forks, or changes to the contract postaudit may introduce new risks that were not present during the audit.

Third-party Code: If the smart contract relies on third-party libraries or code, those components were not thoroughly audited unless explicitly stated. Security of these dependencies is the responsibility of their respective developers.

Non-Exhaustive Testing: The audit involved automated analysis, manual review, and testing under controlled conditions. It is possible that certain vulnerabilities or issues may not have been identified.

Risk Evaluation: The audit report includes a risk assessment for identified vulnerabilities. It is recommended that the development team carefully reviews and addresses these risks to mitigate potential exploits.

Not Financial Advice: This audit report is not intended as financial or investment advice. Decisions regarding the use, deployment, or investment in the smart contract should be made based on a comprehensive assessment of the associated risks.

By accessing and using this audit report, you acknowledge and agree to the limitations outlined above. Skeleton Ecosystem and its auditors shall not be held liable for any direct or indirect damages resulting from the use of the audit report or the smart contract itself.

Please consult with legal, technical, and financial professionals before making any decisions related to the smart contract.



# Overview

Contract Name	ViVe
Ticker/Simbol	ViV
Blockchain	Binance Smart Chain BEP20
Contract Address	0x953b8c871cd31527dbb67dc071c507e34aea3838
Creator Address	0x068181A722cEB830AB12149560912e879d9F9ff6
Current Owner Address	0x068181A722cEB830AB12149560912e879d9F9ff6
Contract Explorer	https://bscscan.com/token/0x953b8c871cd31527dbb67dc071c507 e34aea3838#code
Compiler Version	v0.8.15+commit.e14f2714
License	MIT
Optimisation	Yes with 200 Runs
Total Supply	174,284,506.356682 <b>ViV</b>
Decimals	18

# Creation/Audit

Contract Deployed	28.12.2023
Audit Created	06.01.2024
Audit Update	V 1.0

# Verified Socials

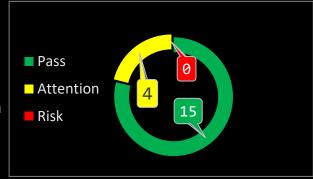
Website	https://vive.services/
Telegram	https://t.me/viveprotocol
Twitter (X)	https://twitter.com/viveprotocol



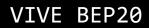
# Contract Function Analysis

Pass Attention Item Alsky Item





Contract Verified	<b>✓</b>	The contract source code is uploaded to blockchain explorer and is open source, so everybody can read it.
Contract Ownership		0x068181A722cEB830AB12149560912e879d9F9ff6 Deployer
Buy Tax	10 %	Shows the taxes for purchase transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Fee can be set!
Sell Tax	10 %	Shows the taxes for sell transactions. Above 10% may be considered a high tax rate. More than 50% tax rate means may not be tradable. Fee can be set!
Honeypot Analyse	<b>✓</b>	Holder is able to buy and sell. If honeypot: The contract blocks sell transfer from holder wallet. Multiple events may cause honeypot. Trading disabled, extremely high tax
Liqudity Status	<b>✓</b>	Liqudity Locker status 05.01.2024: Locked: 95% on Pinklock for 24 Days
Trading Disable Functions	<b>&gt;</b>	No Trading suspendable function found  If a suspendable code is included, the token maybe neither be bought or sold (honeypot risk). If contract is renounced this function can't be used
Set Fees function	<b>↑</b> max 26%	Fee Setting function found. (max 26% limit found)  The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens may not be able to be traded (honeypot risk).
Proxy Contract	<b>✓</b>	Not a proxy contract!
Mint Function	<b>&gt;</b>	No Mint Function detected  Mint function is transparent or non-existent. Hidden mint functions may increase the amount of tokens in circulation and effect the price of the token. Owner can mint new tokens and sell.





Balance Modifier Function	<b>~</b>	No Balance Modifier function found.  If there is a function for this, the contract owner can have the authority to modify the balance of tokens at other addresses. For example revoke the bought tokens from the holders wallet. Common form of scam: You buy the token, but
Blacklist Function	<b>~</b>	it's disappearing from your wallet.  No Blacklist Setting function found.  If there is a blacklist, some addresses may not be able to
		trade normally. Example: you buy the token and right after your Wallet getting blacklisted. Like so you will be unable to sell. Honeypot Risk.
Whitelist Function	A	Whitelist Setting function found.
		If there is a function for this Developer can set zero fee or no max wallet size for adresses (for example team wallets can trade without fee. Can cause farming)
Hidden	<b>✓</b>	No hidden or multi owner
Owner Analysis		For contract with a hidden owner, developer can still manipulate the contract even if the ownership has been abandoned.
Retrieve Ownership	<b>&gt;</b>	No functions found which can retrieve ownership of the contract.
Function		If this function exists, it is possible for the project owner to regain ownership even after relinquishing it. Also known as fake renounce.
Self	<b>✓</b>	No Self Destruct function found.
Destruct Function		If this function exists and is triggered, the contract will be destroyed, all functions will be unavailable, and all related assets will be erased.
Specific	<b>✓</b>	No Specific Tax Changing Functions found.
Tax Changing Function		If it exists, the contract owner may set a very outrageous tax rate for assigned address to block it from trading. Can assign all wallets at once!
Trading	A	Trading Cooldown Function found. ( max 300 sec)
Cooldown Function	300s max	If there is a trading cooldown function, the user will not be able to sell the token within a certain time or block after buying. Like a temporary honeypot.
Max	A	Max Transaction and Holding Modify function found.
Transaction and Holding Modify Function		If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot
Transaction	<b>✓</b>	No Transaction Limiter Function Found.
Limiting Function		The number of overall token transactions may be limited (honeypot risk)



#### Details of Risk - Attention Items

The following functions are listed as functions may be triggered by the owner of the contract.

## Whitelist (Set excluded)

[Remedation: Renounce ownership]

If there is a function for this Developer can set zero fee or no max wallet size for adresses (for example team wallets can trade without fee)

```
function setExcludeFees(address account), bool excluded) public onlyOwner {
1151
                _isExcludedFromFees[account†] = excludedf;
                emit ExcludeFromFees(account1, excluded1);
1191
          function setmaxWallet(uint256 value) external onlyOwner {
             valuet = valuet * (10**18);
              require(value1 >= _totalSupply / 100000, "max wallet cannot be set to less than 0.05%");
              maxWallet = value1;
```

# Max Transaction and Holding Modify function

[Remedation: Renounce ownership]

If there is a function for this, the maximum trading amount or maximum position can be modified. Can cause honeypot

```
1191
           // set max wallet, can not be lower than 0.05% of supply
           function setmaxWallet(uint256 value) external onlyOwner {
              valuet = valuet * (10**18);
               require(value* >= _totalSupply / 100000, "max wallet cannot be set to less than 0.05%");
               maxWallet = value1;
```



Set Trading Fees (Max 26% limit found)

[Remedation: Renounce ownership]

The contract owner may contain the authority to modify the transaction tax. If the transaction tax is increased to more than 49%, the tokens may not be able to be traded (honeypot risk).

```
function updateFees(
   uint256 deadBuy1,
   uint256 deadSellt,
   uint256 marketingBuy1,
  uint256 marketingSellt,
   uint256 liquidityBuy1,
  uint256 liquiditySell†,
   uint256 RewardsBuy1,
   uint256 RewardsSelli,
  uint256 devBuy1,
   uint256 devSellt
) public onlyOwner {
   buyDeadFees = deadBuy1;
    buyMarketingFees = marketingBuy1;
   buyLiquidityFee = liquidityBuy1;
   buyRewardsFee = RewardsBuy1;
   sellDeadFees = deadSellf;
   sellMarketingFees = marketingSell1;
    sellLiquidityFee = liquiditySell1;
   sellRewardsFee = RewardsSell1;
   buyDevFee = devBuy1;
   sellDevFee = devSell1;
   totalSellFees = sellRewardsFee
       .add(sellLiquidityFee)
        .add(sellMarketingFees)
        .add(sellDevFee);
   totalBuyFees = buyRewardsFee
       .add(buyLiquidityFee)
        .add(buyMarketingFees)
        .add(buyDevFee);
   require(totalSellFees <= 26 && totalBuyFees <= 26, "total fees cannot exceed 26% sell or buy");
```

⚠ Trading Cooldown Function (300 sec. limit found)

[Remedation: Renounce ownership]

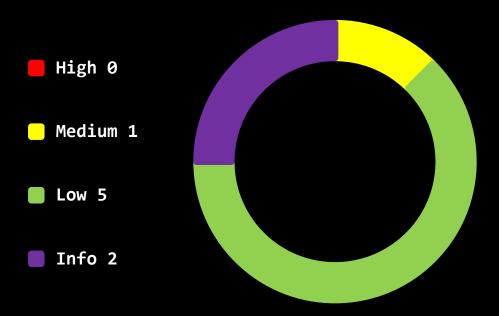
If there is a trading cooldown function, the user will not be able to sell the token within a certain time or block after buying. Like a temporary honeypot.

```
1185
           ftrace | funcSig
           function setcooldowntimer(uint256 value) external onlyOwner {
               require(value) <= 300, "cooldown timer cannot exceed 5 minutes");
               cooldowntimer = value1;
```



## Contract Security

Total Findings: 8



- **High Severity Issues:** High possibility to cause problems, need to be resolved.
- Medium Severity Issue: Will likely cause problems, recommended to resolve.
- Low Severity Issues: Won't cause problems, but for improvement purposes could be adjusted.
- Informational Severity Issues: Not harmful in any way,
  information for the developer team.



# Contract Security List of Found Issues

- High severity Issues: (0)
- Medium severity issues: (1)
  - Usage of Tx. Origin
- Low severity issues: (5)
  - Missing Events
  - Front Running attack approval
  - Floating Pragma
  - Long Number Literals
  - Aprrove of Front Running Attack
- Informational severity issues: (2)
  - Public Functions Should be Declared External
  - State Variables Should be Declared Constant



## Contract Weakness Classisication

THE SMART CONTRACT WEAKNESS CLASSIFICATION REGISTRY (SWC REGISTRY) IS AN IMPLEMENTATION OF THE WEAKNESS CLASSIFICATION SCHEME PROPOSED IN EIP-1470. IT IS LOOSELY ALIGNED TO THE TERMINOLOGIES AND STRUCTURE USED IN THE COMMON WEAKNESS ENUMERATION (CWE) WHILE OVERLAYING A WIDE RANGE OF WEAKNESS VARIANTS THAT ARE SPECIFIC TO SMART CONTRACTS.

ID	Description	AI	Manual	Result
SWC-100	Function Default Visibility	Passed	Passed	Passed
SWC-101	Integer Overflow and Underflow	Passed	Passed	Passed
SWC-102	Outdated Compiler Version	Low	Passed	Passed
SWC-103	Floating Pragma	Low	Passed	Passed
SWC-104	Unchecked Call Return Value	Passed	Passed	Passed
SWC-105	Unprotected Ether Withdrawal	Passed	Passed	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed	Passed	Passed
SWC-107	Reentrancy	Passed	Passed	Passed
SWC-108	State Variable Default Visibility	Passed	Passed	Passed
SWC-109	Uninitialized Storage Pointer	Passed	Passed	Passed
SWC-110	Assert Violation	Passed	Passed	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed	Passed	Passed
SWC-112	Delegatecall to Untrusted Callee	Passed	Passed	Passed
SWC-113	DoS with Failed Call	Passed	Passed	Passed
SWC-114	Transaction Order Dependence	Passed	Passed	Passed
SWC-115	Authorization through tx.origin	High	Medium	Medium
SWC-116	Block values as a proxy for time	Passed	Passed	Passed
SWC-117	Signature Malleability	Passed	Passed	Passed
SWC-118	Incorrect Constructor Name	Passed	Passed	Passed
SWC-119	Shadowing State Variables	Passed	Passed	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed	Passed	Passed



SWC-121	Missing Protection against Signature Replay Attacks	Passed	Passed	Passed
SWC-122	Lack of Proper Signature Verification	Passed	Passed	Passed
SWC-123	Requirement Violation	Passed	Passed	Passed
SWC-124	Write to Arbitrary Storage Location	Passed	Passed	Passed
SWC-125	Incorrect Inheritance Order	Passed	Passed	Passed
SWC-126	Insufficient Gas Griefing	Passed	Passed	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed	Passed	Passed
SWC-128	DoS With Block Gas Limit	Passed	Passed	Passed
SWC-129	Typographical Error	low	Passed	Passed
SWC-129 SWC-130	Typographical Error Right-To-Left-Override control character (U+202E)	low Passed	Passed Passed	Passed Passed
	Right-To-Left-Override control character			
SWC-130	Right-To-Left-Override control character (U+202E)	Passed	Passed	Passed
SWC-130 SWC-131	Right-To-Left-Override control character (U+202E)  Presence of unused variables	Passed Passed	Passed Passed	Passed Passed
SWC-130 SWC-131 SWC-132	Right-To-Left-Override control character (U+202E)  Presence of unused variables  Unexpected Ether balance  Hash Collisions With Multiple Variable	Passed Passed Passed	Passed Passed Passed	Passed Passed Passed
SWC-130 SWC-131 SWC-132 SWC-133	Right-To-Left-Override control character (U+202E)  Presence of unused variables  Unexpected Ether balance  Hash Collisions With Multiple Variable Length Arguments	Passed Passed Passed Passed	Passed Passed Passed Passed	Passed Passed Passed Passed



Detected High and Medium Severity Vulnerability Description.

⚠ Usage of TX. Origin (6 Items)

Item: 1	Location:	Line 1399	Severity:	Medium
Item: 1	Location:	Line 1493	Severity:	Medium
Item: 1	Location:	Line 1495	Severity:	Medium
Item: 1	Location:	Line 1509	Severity:	Medium
Item: 1	Location:	Line 1510	Severity:	Medium
Item: 1	Location:	Line 1590	Severity:	Medium

Function	In Solidity, tx.origin is a global variable that returns the address of the account that sent the transaction. Using the variable for authorization could make a contract vulnerable. For example, if an authorized account calls a malicious contract which triggers it to call the vulnerable contract that passes an authorization check since tx.origin returns the original sender of the transaction which in this case is the authorized account.
Remedation	tx.origin should not be used for authorization in smart contracts. It does have some legitimate use cases, for example, To prevent external contracts from calling the current contract, you can implement a require of the form require(tx.origin == msg.sender). This prevents intermediate contracts from calling the current contract, thus limiting the contract to regular codeless addresses.  gas1, tx.origin

1493	require(block.timestamp >= _holderLastTransferTimestamp[tx.origin] + cooldowntimer,
1494	"cooldown period active"):
	cooladain per low decire /,
1495	_holderLastTransferTimestamp[tx.origin] = block.timestamp;
1406	
1509	require( holderLastTransferBlock[tx.origin] != block.number,"Too many TX in block");
1510	holderLastTransferBlock[tx.origin] = block.number;
1510	Enorge raser ansier procedure 18111 - procedure 1
1589	gas,
1590	tx.origin



A

Approve of front running attack (2 Items)

Item: 1 Location:   Line 264-272 Severity:   Low
--

Function	The approve() method overrides current allowance regardless of whether the spender already used it or not, so there is no way to increase or decrease allowance by a certain value atomically unless the token owner is a smart contract, not an account.  This can be abused by a token receiver when they try to withdraw certain tokens from the sender's account.  Meanwhile, if the sender decides to change the amount and sends another approve transaction, the receiver can notice this transaction before it's mined and can extract tokens from both the transactions, therefore, ending up with tokens from both the transactions. This is a front-running attack affecting the ERC20 Approve function.  The function approve can be front-run by abusing the _approve function.
Remedation	<ol> <li>Introduce mechanisms that limit the maximum acceptable gas price for transactions. This can help prevent front-runners from drastically increasing the gas fees to prioritize their transactions.</li> <li>Use transaction taxes to prevent against front-run attack</li> </ol>

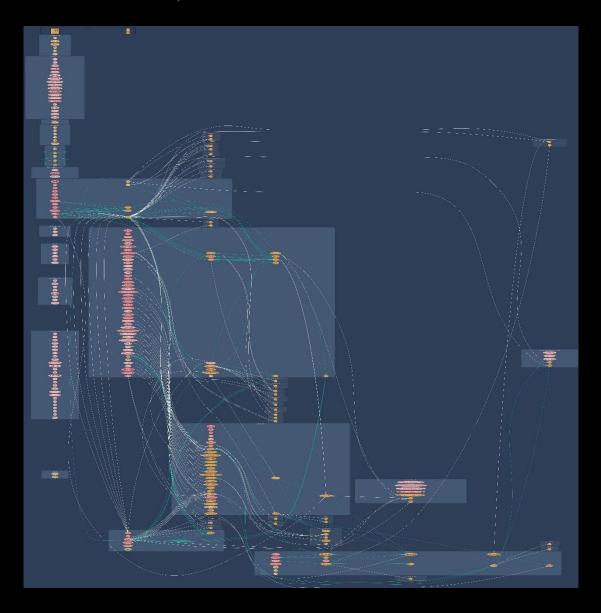


Item: 2	Location:	Line 274-289	Severity:	Low
---------	-----------	--------------	-----------	-----

Function	The transferFrom() method overrides current allowance			
	regardless of whether the spender already used it or			
	not, so there is no way to increase or decrease			
	allowance by a certain value atomically unless the token			
	owner is a smart contract, not an account.			
	This can be abused by a token receiver when they try to			
	withdraw certain tokens from the sender's account.			
	Meanwhile, if the sender decides to change the amount			
	and sends another approve transaction, the receiver can			
	notice this transaction before it's mined and can			
	extract tokens from both the transactions, therefore,			
	ending up with tokens from both the transactions. This			
	is a front-running attack affecting the ERC20			
	Approve function.			
	The function transferFrom can be front-run by abusing			
Dame datie	the _approve function.			
Remedation	3. Introduce mechanisms that limit the maximum			
	acceptable gas price for transactions. This can			
	help prevent front-runners from drastically			
	increasing the gas fees to prioritize their			
	transactions.			
	1 Has been satisfied to the property and forms			
	4. Use transaction taxes to prevent against front-run			
	attack			

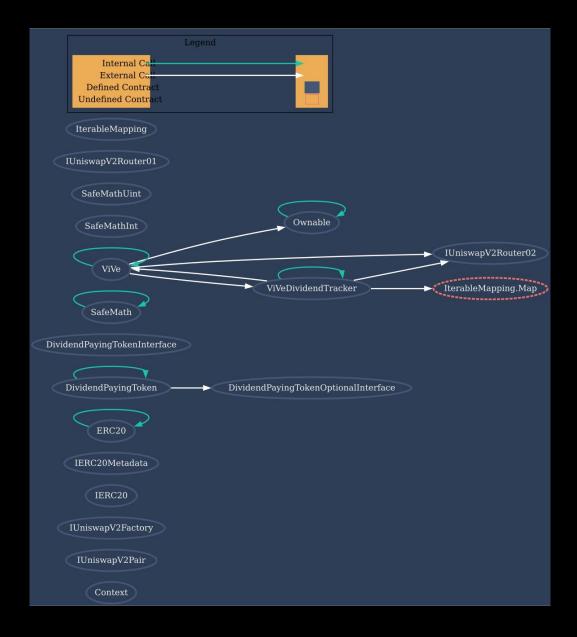


# Contract Flow Graph



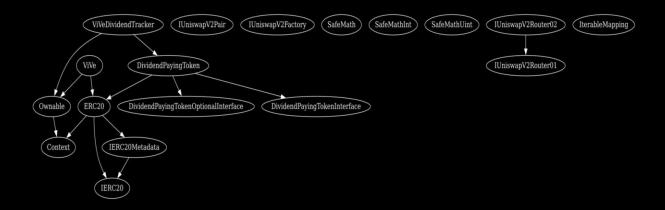


# Contract Interaction Graph





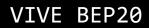
# Inheritance Graph





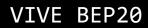
# **Contract Functions**

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal 🖺		
L	_msgData	Internal 🖺		
IUniswapV2Pai r	Interface			
L	name	External 🏻		NO
L	symbol	External 🏻		NO
L	decimals	External 🏻		NOÏ
L	totalSupply	External 🌡		NO
L	balanceOf	External 🏻		NOĮ
L	allowance	External 🌡		NO
L	approve	External 🌡		NO
L	transfer	External 🌡		NO
L	transferFrom	External 🌡		NO[
L	DOMAIN_SEPA RATOR	External 🌡		NO[
L	PERMIT_TYPEH ASH	External 🌡		ио]
L	nonces	External 🏻		NOJ
L	permit	External 🏻		NO[



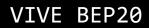


Contract	Туре		Bases	
L	MINIMUM_LIQ UIDITY	External 🌡		NO[
L	factory	External 🌡		NO
L	token0	External 🌡		NO
L	token1	External 🌡		NO
L	getReserves	External 🌡		NO
L	price0Cumulativ eLast	External 🌡		Пои
L	price1Cumulativ eLast	External 🌡		NO[
L	kLast	External 🏻		NO
L	mint	External 🏻		NO
L	burn	External 🏻		NO
L	swap	External 🏻		NO
L	skim	External 🌡		NO
L	sync	External 🌡		NO
L	initialize	External 🌡		NO[
IUniswapV2Fac tory	Interface			
L	feeTo	External 🌡		NO[
L	feeToSetter	External 🌡		NO[
L	getPair	External 🌡		NO[
L	allPairs	External [		NO[
L	allPairsLength	External [		NO





Contract	Туре		Bases	
L	createPair	External 🏻		NOÏ
L	setFeeTo	External 🏻		NO[
L	setFeeToSetter	External 🏻		NO[
IERC20	Interface			
L	totalSupply	External 🏻		NOĮ
L	balanceOf	External 🏻		NO[
L	transfer	External 🏻		NOÏ
L	allowance	External 🏻		NO[
L	approve	External 🏻		NO[
L	transferFrom	External 🌡		NO
IERC20Metada ta	Interface	IERC20		
L	name	External 🌡		NOÏ
L	symbol	External [		NO
L	decimals	External 🏻		МО[
ERC20	Implementation	Context, IERC20, IERC20Metadat a		
L		Public 🌡		NO
L	name	Public 🌡		NOÏ
L	symbol	Public 🌡		NO
L	decimals	Public 🌡		NO
L	totalSupply	Public 🌡		NO





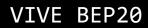
Contract	Туре		Bases	
L	balanceOf	Public 🌡		NO
L	transfer	Public 🌡		NO
L	allowance	Public 🌡		NO
L	approve	Public 🌡		NO
L	transferFrom	Public 🌡		NO
L	increaseAllowan ce	Public 🌡		NOÏ
L	decreaseAllowa nce	Public 🌡		NO[
L	_transfer	Internal 🖺		
L	_mint	Internal 🖺		
L	_burn	Internal 🖺		
L	_approve	Internal 🖺		
L	_beforeTokenTr ansfer	Internal 🖺		
DividendPayin gTokenOption alInterface	Interface			
L	withdrawableDi videndOf	External 🌡		NOÏ
L	withdrawnDivid endOf	External 🌡		NO[
L	accumulativeDiv idendOf	External 🌡		Пои
DividendPayin gTokenInterfac e	Interface			



Contract	Туре		Bases	
L	dividendOf	External 🌡		NO[
L	distributeDivide nds	External 🌡	<b>a</b> p	NO[
L	withdrawDivide nd	External 🌡		NO.
SafeMath	Library			
L	add	Internal 🖺		
L	sub	Internal 🖺		
L	sub	Internal 🖺		
L	mul	Internal 🖺		
L	div	Internal 🖺		
L	div	Internal 🖺		
L	mod	Internal 🖺		
L	mod	Internal 🖺		
Ownable	Implementation	Context		
L		Public 🌡		NO
L	owner	Public 🌡		NO
L	renounceOwner ship	Public 🌡		onlyOwner
L	transfer Owners hip	Public 🌡		onlyOwner
SafeMathInt	Library			
L	mul	Internal 🖺		

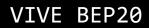


Contract	Туре		Bases	
L	div	Internal 🖺		
L	sub	Internal 🖺		
L	add	Internal 🖺		
L	abs	Internal 🖺		
L	toUint256Safe	Internal 🖺		
SafeMathUint	Library			
L	toInt256Safe	Internal 🖺		
IUniswapV2Ro uter01	Interface			
L	factory	External 🌡		NO
L	WETH	External 🌡		NO
L	addLiquidity	External 🏻		NO
L	addLiquidityETH	External 🌡	<u>CD</u>	NO[
L	removeLiquidity	External 🌡		NO
L	removeLiquidity ETH	External 🌡		Пои
L	removeLiquidity WithPermit	External 🌡		Пои
L	removeLiquidity ETHWithPermit	External 🌡		NO[
L	swapExactToke nsForTokens	External 🌡		№[
L	swapTokensFor ExactTokens	External 🌡		NO[



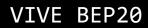


Contract	Туре		Bases	
L	swapExactETHF orTokens	External 🌡	<u>an</u>	NO[
L	swapTokensFor ExactETH	External 🌡		NO
L	swapExactToke nsForETH	External 🌡		МО[
L	swapETHForExa ctTokens	External 🌡	<u>an</u>	Пои
L	quote	External 🌡		NO
L	getAmountOut	External 🌡		NO
L	getAmountIn	External 🌡		NO
L	getAmountsOut	External 🌡		NO
L	get Amounts In	External 🌡		NO
IUniswapV2Ro uter02	Interface	IUniswapV2Rou ter01		
L	removeLiquidity ETHSupportingF eeOnTransferTo kens	External 🌡		иоД
L	removeLiquidity ETHWithPermit SupportingFee OnTransferToke ns	External 🌡		NO[
L	swapExactToke nsForTokensSu pportingFeeOn TransferTokens	External 🌡		иоД
L	swapExactETHF orTokensSuppo	External 🏻	<u>d</u> D	МО[



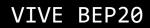


Contract	Туре		Bases	
	rtingFeeOnTran sferTokens			
L	swapExactToke nsForETHSuppo rtingFeeOnTran sferTokens	External 🏻		NO
DividendPayin gToken	Implementation	ERC20, DividendPaying TokenInterface, DividendPaying TokenOptionall nterface		
L		Public 🌡		ERC20
L		External 🌡	ар	NO[
L	distributeDivide nds	Public 🌡	ďВ	NOĴ
L	withdrawDivide nd	Public 🌡		NOĴ
L	_withdrawDivid endOfUser	Internal 🖺		
L	dividendOf	Public 🌡		NO[
L	withdrawableDi videndOf	Public 🌡		NOĴ
L	withdrawnDivid endOf	Public 🌡		NOĴ
L	accumulativeDiv idendOf	Public 🌡		NOĮ
L	_transfer	Internal 🖺		
L	_mint	Internal 🖺		
L	_burn	Internal 🖺		





Contract	Туре		Bases	
L	_setBalance	Internal 🖺		
ViVe	Implementation	ERC20, Ownable		
L		Public 🌡		ERC20
L	decimals	Public 🌡		NO
L		External 🌡	<u>ab</u>	NO
L	updateStakingA mounts	Public 🌡		onlyOwner
L	enableTrading	External 🏻		onlyOwner
L	setPresaleWallet	External 🏻		onlyOwner
L	setExcludeFees	Public 🌡		onlyOwner
L	setExcludeDivid ends	Public 🌡		onlyOwner
L	setIncludeDivid ends	Public 🌡		onlyOwner
L	setCanTransferB efore	External 🏻		onlyOwner
L	setLimitsInEffect	External 🏻		onlyOwner
L	setGasPriceLimit	External 🏻		onlyOwner
L	setcooldowntim er	External 🌡		onlyOwner
L	setmaxWallet	External [		onlyOwner
L	enableStaking	Public 🌡		onlyOwner
L	stake	Public 🌡		NO
L	setSwapTrigger Amount	Public 🌡		onlyOwner



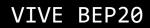


Contract	Туре		Bases	
L	enableSwapAnd Liquify	Public 🌡		onlyOwner
L	setAutomatedM arketMakerPair	Public 🌡		onlyOwner
L	setAllowCustom Tokens	Public 🌡		onlyOwner
L	setAllowAutoRe invest	Public 🌡		onlyOwner
L	_setAutomated MarketMakerPai r	Private 🖺		
L	updateGasForPr ocessing	Public 🌡		onlyOwner
L	transferAdmin	Public 🌡		onlyOwner
L	updateTransferF ee	Public 🌡		onlyOwner
L	updateFees	Public 🌡		onlyOwner
L	getStakingInfo	External 🏻		NO
L	get Total Dividen ds Distributed	External 🌡		NOÏ
L	isExcludedFrom Fees	Public 🌡		Пои
L	withdrawableDi videndOf	Public 🌡		NO]
L	dividendTokenB alanceOf	Public 🌡		NO[
L	getAccountDivi dendsInfo	External 🌡		NO]



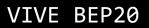


Contract	Туре	Bases		
L	get Account Divi dends Info At Ind ex	External 🌡		NO[
L	processDividen dTracker	External 🌡		NO[
L	claim	External 🌡		NO
L	getLastProcesse dIndex	External 🌡		NO[
L	getNumberOfDi videndTokenHo Iders	External 🌡		NO[
L	setAutoClaim	External 🏻		NO
L	setReinvest	External 🏻		NO
L	set Dividends Pa used	External 🌡		onlyOwner
L	isExcludedFrom AutoClaim	External 🌡		МО[
L	isReinvest	External 🌡		NO[
L	_transfer	Internal 🖺		
L	getStakingBalan ce	Private 🖺		
L	swapAndLiquify	Private 🖺		
L	swapTokensFor Eth	Private 🖺		
L	updatePayoutT oken	Public 🌡		onlyOwner
L	getPayoutToken	Public 🌡		NO





Contract	Туре		Bases	
L	setMinimumTok enBalanceForAu toDividends	Public 🌡		onlyOwner
L	setMinimumTok enBalanceForDi vidends	Public 🌡		onlyOwner
L	addLiquidity	Private 🖺		
L	forceSwapAndS endDividends	Public 🌡		onlyOwner
L	swapAndSendDi vidends	Private 🖺		
L	multiSend	Public 🌡		onlyOwner
١	airdropToWallet s	External 🌡		onlyOwner
ViVeDividendT racker	Implementation	DividendPaying Token, Ownable		
L		Public 🌡		DividendPaying Token
L	decimals	Public 🌡		NOÏ
L	name	Public 🌡		NO
L	symbol	Public 🌡		NO
L	_transfer	Internal 🖺		
L	withdrawDivide nd	Public 🌡		МО[
L	isExcludedFrom AutoClaim	External 🌡		onlyOwner
L	isReinvest	External 🌡		onlyOwner





Contract	Туре		Bases	
L	setAllowCustom Tokens	External 🌡		onlyOwner
L	setAllowAutoRe invest	External 🌡		onlyOwner
L	excludeFromDiv idends	External 🌡		onlyOwner
L	includeFromDivi dends	External 🌡		onlyOwner
L	setAutoClaim	External 🌡		onlyOwner
L	setReinvest	External 🏻		onlyOwner
L	set Minimum Tok en Balance For Au to Dividends	External 🌡		onlyOwner
L	setMinimumTok enBalanceForDi vidends	External 🌡		onlyOwner
L	set Dividends Pa used	External 🌡		onlyOwner
L	getLastProcesse dIndex	External 🌡		NO[
L	getNumberOfT okenHolders	External 🏻		№
L	getAccount	Public 🌡		NO
L	getAccountAtIn dex	Public 🌡		МО[
L	setBalance	External 🌡		onlyOwner
L	process	Public 🌡		NO
L	processAccount	Public 🌡		onlyOwner



Contract	Туре	Bases		
L	updateUniswap V2Router	Public 🌡		onlyOwner
L	updatePayoutT oken	Public [		onlyOwner
L	getPayoutToken	Public 🎚		NO
L	_reinvestDividen dOfUser	Private 🖺		
L	_withdrawDivid endOfUser	Internal 🖺		
IterableMappi ng	Library			
L	get	Internal 🖺		
L	getIndexOfKey	Internal 🖺		
L	getKeyAtIndex	Internal 🖺		
L	size	Internal 🖺		
L	set	Internal 🖺		
L	remove	Internal 🖺		

Function Function can modify state Function



## Audit Scope

#### Audit Method.

Our smart contract audit is an extensive methodical examination and analysis of the smart contract's code that is used to interact with the blockchain. Goal: discover errors, issues and security vulnaribilities in the code. Findings getting reported and improvements getting suggested.

#### **Automatic and Manual Review**

We are using automated tools to scan functions and weeknesses of the contract. Transfers, integer over-undeflow checks such as all CWE events.

#### Tools we use:

Visual Studio Code CWE SWC Solidity Scan SVD

In manual code review our auditor looking at source code and performing line by line examination. This method helps to clarify developer's coding decisions and business logic.

#### **Skeleton Ecosystem**

nttps://skeletonecosystem.com

https://github.com/SkeletonEcosystem/Audits

