

Reference Guide

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Table of Contents

1 Introduction	9
2 Modify a Virtual Service on a LoadMaster	11
2.1 Synopsis	11
2.2 Parameters	11
2.3 Examples	28
2.4 Return Values	29
2.5 Status	30
3 Modify a SubVS on a LoadMaster	31
3.1 Synopsis	31
3.2 Parameters	31
3.3 Examples	41
3.4 Return Values	41
3.5 Status	42
4 Modify a Real Server on a LoadMaster	43
4.1 Synopsis	43
4.2 Parameters	43
4.3 Examples	45
4.4 Return Values	46
4.5 Status	47
5 Add LDAP Authentication on the LoadMaster	48
5.1 Synopsis	48



	5.2 Parameters	48
	5.3 Examples	50
	5.4 Return Values	51
	5.5 Status	51
e	Add or Modify an LDAP-based SSO on the LoadMaster	52
	6.1 Synopsis	52
	6.2 Parameters	52
	6.3 Examples	54
	6.4 Return Values	55
	6.5 Status	55
7	Add or Modify a RADIUS-based SSO on the LoadMaster	. 56
	7.1 Synopsis	56
	7.2 Parameters	56
	7.3 Examples	58
	7.4 Return Values	59
	7.5 Status	59
8	Add or Modify a RADIUS-LDAP-based SSO on the LoadMaster	60
	8.1 Synopsis	60
	8.2 Parameters	60
	8.3 Examples	63
	8.4 Return Values	64
	8.5 Status	64



9 Add or Modify a Certificate-based SSO on the LoadMaster65
9.1 Synopsis65
9.2 Parameters
9.3 Example
9.4 Return Values
9.5 Status
10 Add or Modify a SAML-based SSO on the LoadMaster69
10.1 Synopsis
10.2 Parameters
10.3 Examples
10.4 Return Values
10.5 Status
11 Add GEO FQDN Data
11.1 Synopsis
11.2 Parameters
11.3 Examples
11.4 Return Values
11.5 Status
12 Update GEO Maps and Clusters
12.1 Synopsis
12.2 Parameters
12.3 Examples



 12.4 Return Values	80
12.5 Status	81
13 Update GEO Miscellaneous Options and GEO Partnership	82
13.1 Synopsis	82
13.2 Parameters	82
13.3 Examples	84
13.4 Return Values	85
13.5 Status	86
14 Upload a Certificate and Key on a LoadMaster	87
14.1 Synopsis	87
14.2 Parameters	87
14.3 Example	88
14.4 Return Values	88
14.5 Status	89
15 Add or Modify a Header Rule	90
15.1 Synopsis	90
15.2 Parameters	90
15.3 Examples	91
15.4 Return Values	91
15.5 Status	92
16 Delete Header Rule	93
16.1 Synopsis	93



	16.2 Parameters	93
	16.3 Examples	
	16.4 Return Values	
	16.5 Status	95
1	17 Replace Body Rule	96
	17.1 Synopsis	
	17.2 Parameters	96
	17.3 Examples	97
	17.4 Return Values	97
	17.5 Status	
1	8 Replace Header Rule	
	18.1 Synopsis	
	18.2 Parameters	
	18.3 Examples	
	18.4 Return Values	
	18.5 Status	
1	9 Match Content Rule	
	19.1 Synopsis	
	19.2 Parameters	
	19.3 Examples	
	19.4 Return Values	
	19.5 Status	



20 Add or Modify a modifyURLRule on a LoadMaster	
20.1 Synopsis	
20.2 Parameters	
20.3 Examples	
20.4 Return Values	
20.5 Status	
21 Update Global Parameters	
21.1 Synopsis	
21.2 Parameters	109
21.3 Examples	110
21.4 Return Values	
21.5 Status	111
22 Appendix	
Last Updated Date	

1 Introduction



1 Introduction

Ansible is an open source automation platform. It can help with configuration management, application deployment, and task automation. In Kemp, we use Ansible to configure LoadMasters by running playbook configurations that are pushed out to LoadMasters through Kemp 360 Central.

First you define your layout in the Ansible playbook. When you run the playbook it calls Application Program Interface (API) commands on Kemp 360 Central, which then configures the LoadMasters connected to Kemp 360 Central.

Kemp have developed the following modules to be used in Ansible playbooks:

- Virtual Service
- Sub Virtual Service (SubVS)
- Real Server
- Add LDAP Authentication
- Add or Modify an LDAP-based SSO
- Add or Modify a RADIUS-based SSO
- Add or Modify a RADIUS-LDAP-based SSO
- Add or Modify a Certificate-based SSO
- Add or Modify a SAML-based SSO
- Add GEO FQDN Data
- Update GEO Maps and Clusters
- Update GEO Miscellaneous Options and GEO Partnership
- Upload Certificate
- Add Header Rule
- Delete Header Rule
- Replace Body Rule
- Replace Header Rule

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1 Introduction



- Match Content Rule
- Modify URL Rule
- Update Global Parameters

Requesting the API Key

To get the API key for Ansible, execute the following API command using your Kemp 360 Central credentials:

Make a curl request against your installation of Kemp 360 Central in the following way:

```
curl "https://{CENTRAL}/api/v1/user/authenticate/" --data "
{""username"":""admin"",""password"":""{PASSWORD}""}"
```

You should see a response similar to below:

```
{
"apikey": "abc123",
"id": 1,
"success": true
}
```



2 Modify a Virtual Service on a LoadMaster

2.1 Synopsis

This module adds or modifies a Virtual Service on a LoadMaster. The minimum supported LoadMaster firmware version is 7.2.47.0.

2.2 Parameters

Parameter	Choices/	Comments
i arameter	Defaults	comments
allow_https_2	Choices:	Enable HTTP/2 for this Virtual Service. SSL
	• Y: Enabled	Acceleration must be enabled before HTTP/2 can be enabled. The BestPractices cipher
str	• N: Disabled	set should be used when HTTP/2 is enabled.
cache int	Choices:0: Disabled1: Enabled	Enable or disable the caching of URLs.
cache_percent str	Choices:0: Disabled1: Enabled	Specify the maximum percentage of cache space permitted for this Virtual Service. This is only relevant if cache is enabled. The maximum value is 100.
central_address str/required		The IP address of the Kemp 360 Central that the LoadMaster is added to.
central_api_key str/required		Admin-level API Key to access API services on Kemp 360 Central.
central_ username str/required		Username for Kemp 360 Central that is linked to the given API key.
cert_name		Identifier (name) of a preexisting certificate

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		on the LoadMaster to assign to the Virtual
str		Service.
check_host str		The check_use_11 parameter must be enabled to set the check_host value. When using HTTP/1.1 checking, the Real Servers require a Hostname be supplied in each request. If no value is set then this value is the IP address of the Virtual Service.
check_pattern		When the check_type is set to http or https, this corresponds to the Reply 200 Pattern in the WUI. This parameter only applies when the HTTP Method is set to GET or POST.
str		When the check_type is set to bdata : Specify the hexadecimal string that will be searched for in the response. Specify an empty value to unset check_pattern .
check_port int		The port to be checked. If a port is not specified, the Real Server port is used. Specify 0 to unset check_port .
check_post_data		This parameter is only relevant if the HTTP Method is set to POST . When using the POST method, up to 2047 characters of POST data can be sent to the server.
	Choices:	
check_type str	 icmp https http tcp smtp nntp ftp telnet 	Specify which protocol is to be used to check the health of the Real Server. The default value is dependent on the Virtual Service port.



	• pop3	
	• imap	
	• rdp	
	• bdata	
	• ldap	
	• none	
check_url str		When the check_type is set to http or https - by default, the health checker tries to access the URL / to determine if the machine is available. A different URL can be set in the check_url parameter. When the check_type is set to bdata : Specify a hexadecimal string to send to the Real Server. The maximum character length for the check_url parameter value is 126 characters.
check_use_11 str	Choices:N: DisabledY: Enabled	By default, the health checker uses HTTP/1.0 when checking the Real Server status. Enabling check_use_11 means HTTP/1.1 is used (which is more efficient).
	Choices:	
check_use_get	• 0: HEAD	When accessing the health check URL - the
int	• 1: GET	system can use the HEAD, the GET, or the POST method.
	• 2: POST	
compress int	 Choices: 0 - Disabled 1 - Enabled 	When enabled, files sent from the LoadMaster are compressed with Gzip.
	Choices:	
copy_hdr_from str	 0 - Disabled 1 - Enabled 	The source header field to copy from when the request is sent to the LoadMaster.
copy_hdr_to		The name of the header field into which the source header is copied. This is used with

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2 Modify a Virtual Service on a LoadMaster



str		the copy_hdr_from variable.
cipher_set str	Choices: Default Default_NoRc4 BestPractices Intermediate_compatibility Backward_compatibility WUI FIPS Legacy Null_Ciphers- <nameofcustomcipherset></nameofcustomcipherset> 	This parameter can be used to assign a cipher set to a Virtual Service. System- defined cipher sets and custom cipher sets can be assigned using this parameter.
ciphers str		Multiple ciphers can be assigned by inserting a colon between each cipher. When ciphers are assigned in this way, a Cipher Set called Custom_ <virtualserviceid></virtualserviceid> is created/updated. Note: The assigned ciphers list is overwritten when ciphers are added in this way. Ensure to include all ciphers to be assigned.
default_gw str		Set the default gateway for this Virtual Service.
enable str/required	Choices:N: DisabledY: Enabled (default)	Specify if the Virtual Service should be created in a live (enabled) state.
enhanced_ health_checks int	Choices: • 0: Disabled • 1: Enabled	Enabling the enhanced_health_checks parameter provides an additional health check parameter - rs_minimum . If the enhanced_health_checks parameter is disabled, the Virtual Service is considered

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ensure	Drecort (defeult)	available if at least one Real Server is available. If the enhanced_health_checks parameter is enabled, you can specify the minimum number of Real Servers that should be available to consider the Virtual Service to be available. Value set to indicate to Kemp 360 Central
str/required	Present (default)	that this Virtual Service should always exist. This is set automatically by the module.
error_code		If no Real Servers are available, the LoadMaster can terminate the connection with a HTTP error code. Specify the error code number in this parameter. Valid values are in the range 200-505.
error_url str		When no Real Servers are available and an error response is sent back to the client, you can also specify a redirect URL.
follow_vsid int		Specify the ID of the Virtual Service to follow. This is used for redirects.
force_l7 int	Choices: • 0: Disabled • 1: Enabled	Enabling force_l7 means the Virtual Service runs at Layer 7 and not Layer 4. This may be needed for various reasons, including that only Layer 7 services can be non- transparent.
vs_ip str/required		The IPv4 Address to assign to the Virtual Service.
ldap_endpoint str		Specify the name of an LDAP endpoint to use for the health checks. If LDAP is selected as the check_type , the server IP address (or addresses) and ports from the LDAP endpoint configuration are used instead of the Real Server IP address and port.
lm_address str/required		IP address and port of the LoadMaster that contains the Virtual Service or SubVS that the Real Server should be created or modified on. The format is 'ip:port'.
match_body_		Names (Identifiers) of Match Body type

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rules list		Content Rules to assign to the Virtual Service. These content rules must exist on the LoadMaster before being assigned to a Virtual Service.
match_length int		This parameter is only relevant when the check_type is set to bdata . By setting this you can specify the number of bytes to find the check_pattern within.
need_host_name int	 Choices: 0: Disabled 1: Enabled 	When this parameter is enabled, the hostname is always required to be sent in the TLS client hello message. If it is not sent, the connection is dropped.
nickname str/required	Choices:0: Disabled1: Enabled	The nickname to assign to the Virtual Service. It must be unique.
ocsp_verify int	Choices:0: Disabled1: Enabled	Verify (using Online Certificate Status Protocol (OCSP)) that the client certificate is valid.
persist str	Choices: ssl cookie active-cookie cookie-src cookie-hash cookie-hash-src url query-hash hash host header 	Specify the type of persistence (stickiness) to be used for this Virtual Service.



	• super	
	• super-src	
	• SrC	
	• rdp	
	• rdp-src	
	• rdp-sb	
	• rdp-sb-src	
	 udpsip 	
	• none	
persist_timeout		The length of time (in seconds) after the last connection that the LoadMaster remembers the persistence information. Timeout values are rounded down to an even number of
int		minutes. Setting a value that is not a number of whole minutes results in the excess being ignored. Setting a value to less than 60 seconds results in a value of 0 being set, which disables persistency.
vs_port int/required		The port on which the Virtual Service must be active. Can be any valid port number from 3 to 65530, or a wildcard `*`.
preprocess_rules list		Names (Identifiers) of Preprocess type Content Rules to assign to the Virtual Service. These content rules must exist on the LoadMaster before being assigned to a Virtual Service.
vs_protocol	Choices:	
str/required	• tcp: Use the TCP protocol	The protocol type that this Virtual Service uses.
	• udp: Use the UDP protocol Choices:	
qos	Normal-Service	Quality of Service sets a type of service that deals with packets, which treats and
str	Minimize-Cost	prioritizes the traffic.
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	 Maximize-Reliability 	
	 Maximize-Throughput 	
	 Minimize-Delay 	
		Names (Identifiers) of Request type Content
request_rules		Rules to assign to the Virtual Service. These
list		content rules must exist on the LoadMaster
		before being assigned to a Virtual Service.
Koononeo kuloo		Names (Identifiers) of Response type Content
response_rules		Rules to assign to the Virtual Service. These
list		content rules must exist on the LoadMaster
		before being assigned to a Virtual Service.
		An integer that specifies how many Real
rs_minimum		Servers must be up for a Virtual Service or
rs_mmmum		SubVS to be considered up. It is an integer
int		from 0 to <i>N</i> , where <i>N</i> is the number of Real
		Servers on this particular service. In
		practice, this value is usually 1.
rs_rule_		This parameter should be used in
precedence		conjunction with rs_rule_precedence_pos .
precedence		This parameter is used to specify the name
int		of the existing rule whose position you want
		to change.
rs_rule_		This parameter, in conjunction with the rs _
precedence_pos		rule_precedence parameter, is used to
hh		change the position of the rule in a sequence of rules. For example, a position
str		of 2 means the rule will be checked second.
	Choices:	or 2 means the rule will be checked second.
	Round-Robin	
schedule	Weighted-Round-Robin	Specify the type of scheduling of new
	Least-Connection	connections to Real Servers that is to be
str	Weighted-Least-Connection	performed.
	 Fixed-Weighting 	
	Adaptive-Resource-Based	

2 Modify a Virtual Service on a LoadMaster



int	• 0: Disabled	connections at the Real Server appear to
transparent	Choices	(Layer 7 only) When transparency is enabled,
	• TLS1.3	
	• TLS1.2	
list	• TLS1.1	TLS1.3.
tls_type	• TLS1.0	Specify which of the following protocols to support; SSLv3, TLS1.0, TLS1.1, TLS1.2, or
	• SSLv3	
	Choices	
		LoadMaster is used.
	• 1: Enabled	LoadMaster. If the Real Server is on a subnet, the subnet address of the
int		address is the local address of the
subnet_ originating	• 0: Disabled	Service. When enabled, the source IP
	Choices	When transparency is disabled for a Virtual Service, the source IP address of connections to Real Servers is the Virtual
	https	applies).
str	• http	HTTPS instead of HTTP (the opposite also
ssl_rewrite	None	URL may need to be converted to specify
eel verwite	Choices	When the Real Server rejects a request with a HTTP redirect, the requesting Location
	• 1: Enabled	SSL Acceleration is enabled.
ssl_reencrypt	• 0: Disabled	stream is re-encrypted before sending to the Real Server. This parameter is only valid if
	Choices	When this option is enabled, the SSL data
int	• 1: Enabled	Scrvice.
ssl_acceleration	• 0: Disabled	Enable SSL handling services for the Virtual Service.
	Choices:	
	URL-Hash	
	SDN-Adaptive	
	 Weighted-Response-Time 	
	• Source-IP-Hash	

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	• 1: Enabled	originate at the client. With transparency disabled, connections originate at the LoadMaster.
use_for_snat int	Choices 0: Disabled 1: Enabled 	By default, when the LoadMaster is being used to NAT Real Servers, the source IP address used on the internet is that of the LoadMaster. Enabling this option allows the Real Servers configured to use the Virtual Service as the source IP address instead. If the Real Servers are configured on more than one Virtual Service which has this option set, only connections to destination port 80 will use this Virtual Service as the source IP address.
vs_type str/required	Choices gen http http/2 log ts tls 	This specifies the type of service being load balanced.
allowed_hosts str		This parameter is only relevant when ESP is enabled. Specify all the virtual hosts that can be accessed using this Virtual Service.
allowed_ directories str		This parameter is only relevant when ESP is enabled. Specify all the virtual directories that can be accessed using this Virtual Service. You can specify up to 254 characters for this parameter.
domain str		The Single Sign On (SSO) domain in which this Virtual Service will operate.
logoff str		This parameter is only relevant when ESP is enabled and when the Client Authentication Mode is set to Form Based. Specify the

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	1	
		string that the LoadMaster should use to
		detect a logout event. Multiple logoff strings
		can be specified by using a space-separated
		list. If the URL to be matched contains sub-
		directories before the specified string, the
		Logoff String will not be matched.
		Therefore, the LoadMaster will not log the
		user off. You can specify up to 255
		characters for this parameter.
		This option is only available if SAML is
		selected as the input_auth_mode . Specify
		the name of the HTTP header. This header is
add_auth_header		added to the HTTP request from the
str		LoadMaster to the Real Server and its value
		is set to the user ID for the authenticated
		session. You can specify up to 255
		characters for this parameter.
	Choices	Display the public/private option on the
display_pub_priv		login page. Based on the option the user
	• 0: Disabled	selects on the login form, the session
int	• 1: Enabled	timeout value is set to the value specified
	• I. LIIAbled	for either the public or private timeout.
d'a a la la	Choices	Enabling this option removes the password
disable_		field from the login page. This may be
password_form	• 0: Disabled	needed when password validation is not
int	• 1: Enabled	required, for example if using RSA SecurID
		authentication in a singular fashion.
		Enable this parameter to allow CAPTCHA
		verification on the login page.
		The LeadMaster only
		The LoadMaster only
captcha		supports CAPTCHA v2.
str		The input_auth_mode
		must be set to 2 (Form
		Based) for the CAPTCHA
		parameters to be relevant.
		parameters to be relevant.



		All CAPTCHA parameters must be set before it can be used. Both the LoadMaster and the client machine must be
		able to access Google for this to work.
		Before the CAPTCHA has been correctly answered, the submit button on the login form is disabled. If the user does not submit the form within two minutes of answering the CAPTCHA, the CAPTCHA times out (Google-specified timeout), and the user must verify a new CAPTCHA (the submit button is disabled until the new CAPTCHA has been verified).
captcha_private_ key str		The key that was provided as the private key when you signed up for the CAPTCHA service.
captcha_access_ url	Choices 0: Disabled 	The URL of the service that provides the CAPTCHA challenge. Usually: www.google.com/recaptcha/api.js Do not start this URL with
int	1: Enabled	https. Only CAPTCHA V2 is currently supported.
captcha_verify_ url str		The URL of the service that verifies the response to the CAPTCHA challenge. Usually: www.google.com/recaptcha/api/siteverify
		Do not start this URL with

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	1	
		https. Only CAPTCHA V2 is currently supported.
		Enable ESP logging. Valid values are below:
		0 - Logging off
	Choices:	1 - User Access
	• 0	2 - Security
	• 1	3 - User Access and Security
esp_logs	• 2	4 - Connection
int	• 3	5 - User Access and Connection
	• 4	6 - Security and connection
	• 5	7 - User Access, Security and Connection
	• 6	Note: The only valid values for SMTP
	• 7	services are 0 and 4. For SMTP services, security issues are always logged. Nothing is logged for user access because there are no logins.
smtp_allowed_ domains str		Specify all the permitted domains that are allowed to be received by this Virtual Service.
excluded_ directories str		This parameter is only relevant when ESP is enabled. Any virtual directories specified within this field will not be pre-authorized on this Virtual Service and are passed directly to the relevant Real Servers.
	Choices	
esp_enabled	• 0: Disabled	Enable or disable the Edge Security Pack (ESP) features.
	• 1: Enabled	
input_auth_mode	Choices:	Specify the client authentication method to be used:
int	• 0	0 - Delegate to Server

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	• 1	1 - Basic Authentication
	• 2	2 - Form Based
	• 3	4 - Client Certificate
	• 4	5 - NTLM
	• 5	6 - SAML
	• 6	
	Choices:	Specify the server authentication mode to be used:
output outb	• 0	0 - None
output_auth_ mode	• 1	1 - Basic Authentication
int	• 2	2 - Form Based
	• 3	3 - KCD
	• 4	4 - Server Token
server_fba_path str		Only relevant when using form-based authentication as the Server Authentication Mode (output_auth_mode). Set the authentication path for server-side Form Based Authentication (FBA). When used in Exchange environments, this does not need to be set.
out_conf		Enter the name of the outbound SSO domain.
single_sign_on_ dir str		This parameter relates to the SSO Image Set drop-down in the ESP Options section of the modify Virtual Service screen in the LoadMaster User Interface (UI). Specify the name of the image set to be used for the login screen. If no image set is specified, the default Exchange image set will be used.
single_sign_on_ message str		Specifies the SSO message that is displayed. The single_sign_on_message parameter accepts HTML code, so you can insert an image if required.

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	There are several characters that are not supported. These are the grave accent character (`) and the single quote ('). If a grave accent character is used in the SingleSignOnMessage, the character will not display in the output, for example a`b`c becomes abc. If a single quote is used, users will not be able to log in.
allowed_groups str	Specify the groups that are allowed to access this Virtual Service. If the parameter value is longer than the maximum length of a HTTP GET query (1024 characters), you must set the HTTP Method to POST . You can specify up to 2048 characters for this parameter.
group_sids str	Specify the group security identifiers (SIDs) that are allowed to access this Virtual Service. Each group is separated by a semi-colon. Spaces are used to separate bytes in certain group SIDs. Here is an example: S-1-5-21-703902271-2531649136- 2593404273-1606 SIDs can be found by using the get- adgroup-Identity GroupName command.



	If the parameter value is longer than the maximum length of HTTP GET query (1024 characters), you must set the HTTP Method to POST.
include_nested_ groups str	This parameter relates to the AllowedGroups parameter. Enable this option to include nested groups in the authentication attempt. If this option is disabled, only users in the top-level group will be granted access. If this option is enabled, users in both the top-level and first sub-level group will be granted access.
steering_groups str	Enter the Active Directory group names that will be used for steering traffic. Use a semi- colon to separate multiple group names. The steering group index number corresponds to the location of the group in this list. If the parameter value is longer than the maximum length of a HTTP GET query (1024 characters), you must set the HTTP Method to POST .
excluded_ domains str	Any virtual directories specified within this field will not be pre-authorized on this Virtual Service and will be passed directly to the relevant Real Servers. Multiple excluded domains can be specified by using a space- separated list.
alt_domains str	Specify alternative domains to be assigned to a Virtual Service when configuring multi- domain authentication. To specify multiple alternative domains, use a space-separated

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		list.
user_pwd_ change_url str		This is relevant when using form-based LDAP authentication. Specify the URL that users can use to change their password. If a user's password has expired, or if they must reset their password, this URL and the user_ pwd_change_msg is displayed on the login form. This URL must be put into the exception list for authentication, if required.
user_pwd_ change_msg str		This parameter is only relevant if the user_ pwd_change_url parameter is set. Specify the text to be displayed on the login form when the user must reset their password.
user_pwd_ expiry_warn int	Choices • 0: Disabled • 1: Enabled	By default, SSO users are notified about the number of days before they must change their password. If you disable this option, the password expiry notification will not appear on the login forms. This parameter is only relevant if the input_auth_mode is set to Form Based (2) and the user_pwd_ change_url is set. The language of the warning text is based on the SSO Image Set that is selected (English, French, or Portuguese).
user_pwd_ expiry_warn_ days int		Specify the number of days to show the warning before the password is expired. This parameter is only relevant if the input_ auth_mode is set to Form Based (2) and the user_pwd_change_url is set.
intercept int	 Choices 0: Disabled (default) 1: Enabled 	Enable or disable the Web Application Firewall (WAF).
intercept_opts list		A list of strings to enable or disable certain WAF features.
intercept_post_ other_content_		Enter a comma-separated list of POST content types allowed for WAF analysis, for

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	example text/plain,text/css . By default, all types (other than XML/JSON) are enabled. To set this to any other content types, set the value to any .
types list	Enabling the inspection of any other content types may increase system resource utilization (CPU and memory). A specific list of content types should be considered.
alert_threshold	This is the threshold of incidents per hour before sending an alert. Setting this to 0 disables alerting. Range: 0 - 100000
waf_rules list	List of WAF rules and which group they belong to with the name of the rule and IDs to disable in the format: G\ <rule_name>:208080:2000023</rule_name>

2.3 Examples

```
- name: Create a Virtual Service
hosts: localhost
vars:
    central_address: '10.35.23.180'
    central_username: 'admin'
    central_api_key: '4ef39d110474a18639bab'
    lm_address: '10.35.23.2:443'
    ip: '10.35.23.156'
    port: 443
    prot: 'tcp'
tasks:
    - name: Create Virtual Service Pathos on LM
    virtual_service:
        central address: '{{ central address }}'
```

2 Modify a Virtual Service on a LoadMaster



```
central_username: '{{ central_username }}'
central_api_key: '{{ central_api_key }}'
lm_address: '{{ lm_address }}'
enable: 'Y'
nickname: 'Pathos'
ip: '{{ ip }}'
port: '{{ port }}'
protocol: '{{ port }}'
vs_type: 'http'
ssl_acceleration: 1
check_type: 'icmp'
qos: 'Maximize-Reliability'
transparent: 1
```

2.4 Return Values

The following are the fields unique to this module:

Кеу	Returned	Description
message		The message response indicating whether the task created or modified the Virtual Service.
str	always	Sample:
		VS Updated
chongod		A Boolean to indicate whether changes were made during the task
changed	always	Sample:
bool		true
		The parameters that were changed during the task.
dataChanged	when changed is	Sample:
str true	0	{"check_type": "icmp","NickName": "Pathos","SSLAcceleration": "Y", "TlsType": "3", "Transparent": "Y"}
		The error message related to why the task failed.
msg str	when task failed	Sample:
50		The minimum supported LoadMaster firmware version is 7.2.47.0.



2.5 Status

This module is maintained by Kemp Technologies.

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3 Modify a SubVS on a LoadMaster

3.1 Synopsis

This module configures a SubVS on a LoadMaster. The minimum supported LoadMaster firmware version is 7.2.47.0. To configure a SubVS on a Virtual Service, the Virtual Service must be defined in your playbook before the SubVS.

3.2 Parameters

Parameter	Choices/ Defaults	Comments
	Choices:	
	• 0	
	• 1	
add_via	• 2	Corresponds to the add http
int	• 3	headers in LM
	• 4	
	• 5	
	• 6	
central_username		
str/required		The Kemp 360 Central username.
central_api_key		The API key for the user of the
str/required		Kemp 360 Central machine.
central_address		The IP address of the Kemp 360
str/required		Central that the LoadMaster is added to.

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	Choices:	
enable	N/	
str	• Y	Enable the SubVS.
	• N	
		IP address and port of the
Im addraga		LoadMaster that contains the
lm_address		Virtual Service or SubVS that the
str/required		Real Server should be created or
		modified on. The format is 'ip:port'.
		The IP address of the parent
VS		Virtual Service on the
str/required		LoadMaster.
port		The port of the parent Virtual
port		Service on the LoadMaster value
int/required		between 3 and 65530.
		The maximum number of open
limit		connections that can be sent to a
int		Real Server before it is taken out
		of rotation; values 0-100000.
nickname		Nickname of a SubVS.
str/required		Nickilane of a Subv3.
	Choices	
	• 0	
	1	Quality of Service sets a type of
qos	• 1	service that deals with how
int	• 2	packets treat and prioritize the
	• 4	traffic.
	• 8	
		When transparency is not
	Choices:	enabled, the source IP address of
subnet_originating		connections to the Real Servers is that of the Virtual Service.
int	• 0	When transparency is enabled,
	• 1	the source IP address is the IP
		address that is initiating



		connection to the Virtual Service. If the Real Server is on a subnet, and the Subnet Originating Requests option is enabled, then the subnet address of the LoadMaster is used as the source IP address.
	Choices:	
	• gen	
vs_type	• http	This specifies the type of service
str	• http/2	being load balanced.
	• tls	
	• log	
critical	Choices: • 0	Enabling this parameter indicates that the Real Server is required for the Virtual Service to be considered available. The Virtual
int	• 1	Service is marked as down if the Real Server has failed or is disabled.
	Choices:	
	• icmp	
	• http	
	 https 	Specify which protocol is to be used to check the health of the Real Server.
	• tcp	
check_type	• smtp	
str	 nntp 	
	• ftp	
	• telnet	
	• pop3	
	• imap	

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	• rdp	
	• bdara	
	• ldap	
	 none 	
		A space-separated list of HTTP
check_codes		status codes that should be
str		treated as successful when
		received from the Real Server.
		The port to be checked. If a port
check_port		is not specified, the Real Server
int		port is used. Specify 0 to unset
		check_port.
		When using weighted round
		robin scheduling, the weight of a
		Real Server is used to indicate
		what relative proportion of traffic
		should be sent to the server.
		Servers with higher values
weight		receive more traffic. The weight
int		of a SubVS can also be updated
		using the modrs command - set
		the Real Server to the number
		that appears in the Id column for
		the relevant SubVS in the parent
		Virtual Service modify screen;
		values 1-65535.
		The check_use_11 parameter
		must be enabled to set the
check_host		check_host value. When using
check_host		HTTP/1.1 checking, the Real
str		Servers require a Hostname be
		supplied in each request. If no
		value is set, then this value is the IP address of the Virtual Service.
check_pattern		When the check_type is set to
~+v		http or https - this corresponds
str		to the Reply 200 Pattern in the

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3 Modify a SubVS on a LoadMaster



		WUI. This parameter only applies when the HTTP Method is set to
		GET or POST. When the check_
		type is set to bdata: Specify the
		hexadecimal string, which is
		searched for in the response.
		Specify an empty value to unset
		check_pattern.
		Specify up to four additional
shock booders		headers/fields that will be sent
check_headers		with each health check request.
str		Separate the pairs with a pipe,
		for example;
		Host:xyc UserAgent:prq.
	Choices:	By default, the health checker
check_use_11		uses HTTP/1.0 when checking the
atr	• 0	Real Server status. Enabling
str	• 1	check_use_11 means HTTP/1.1 is
		used (which is more efficient).
		Enabling the enhanced_health_
		checks parameter provides an
		additional health check
		parameter - rs_minimum . If the
		enhanced_health_checks
	Choices	parameter is disabled, the Virtual
enhanced_health_checks		Service is considered available if
	• 0	at least one Real Server is
int	• 1	available. If the enhanced_
	• 1	health_checks parameter is
		enabled, you can specify the
		minimum number of Real Servers
		that should be available to
		consider the Virtual Service to be
		available.
		An integer that specifies how
rs_minimum		many Real Servers must be up for
		a Virtual Service or SubVS to be
int		considered up. It is an integer
		from 0 to <i>N</i> , where <i>N</i> is the

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3 Modify a SubVS on a LoadMaster



	number of Real Servers on this
	particular service. In practice,
	this value is usually 1.
and the second sec	Specify the key for the extra
extra_header_key	header to be inserted into every
str	request sent to the Real Servers.
extra_header_value	Specify the value for the extra
	header to be inserted into every
str	request sent to the Real Servers.
	If no Real Servers are available,
	the LoadMaster can terminate the
error_code	connection with a HTTP error
	code. Specify the error code
int	number in this parameter. To
	unset the error code, set the
	parameter to an empty string.
	When no Real Servers are
error_url	available and an error response is
str	sent back to the client, a redirect
	URL can also be specified.
	Specify the name of an LDAP
	endpoint to use for the health
	checks. If LDAP is selected as the
ldap_endpoint	check_type, the server IP
	address (or addresses) and ports
str	from the LDAP endpoint
	configuration are used instead of
	the Real Server IP address and
	port.
conv header from	This is the name of the source
copy_header_from	header field to copy into the new
str	header field before the request is
	sent to the Real Servers.
	Used in conjunction with the
copy_header_to	copy_header_from parameter.
	The name of the header field into
str	which the source header is to be
	copied.

LoadMaster Ansible Reference Guide

3 Modify a SubVS on a LoadMaster



	1	1
		When using Layer 7, when this is
		enabled - the connection arriving
		at the Real Server appears to
		come directly from the client.
		Alternatively, the connection can
		be non-transparent, which means
		that the connections at the Real
	Choices:	Server appear to come from the
transparent	• 0	LoadMaster. If a Virtual Service
int	• 0	(with or without a SubVS) has
	• 1	SSL re-encrypt enabled, the
		transparency flag of the Virtual
		Service has no meaning (re-
		encryption forces transparency to
		be off). The transparency setting
		can still be modified by the API
		and is honored when re-encrypt
		is disabled on the Virtual Service.
		Enabling this option permits the
		LoadMaster to manage
		connection handling between the
		LoadMaster and the Real Servers.
	Choices:	Requests from multiple clients
multi_connect	choices.	are sent over the same TCP
	• 0	connection. Multiplexing only
int	1	works for simple HTTP GET
	• 1	operations. This parameter
		cannot be enabled in certain
		situations, for example if WAF,
		ESP, or SSL Acceleration is
		enabled.
		By default only Real Servers on
		local networks can be assigned
	Choices:	to a Virtual Service. Enabling this
non_local	0	option allows a non-local Real
int	• 0	Server to be assigned to the
	• 1	Virtual Service. This option is
		only available if a non local Real
		Server is enabled and the
L	1	1



		Transparent option is disabled on
		the relevant Virtual Service.
		When the check_type is set to
		http or https - by default, the
		health checker tries to access the
		URL / to determine if the
		machine is available. A different
check_url		URL can be set in the check_url
		parameter. When the check_type
str		is set to bdata : Specify a
		hexadecimal string to send to the
		Real Server. The maximum
		character length for the check_
		url parameter value is 126
		characters.
		This parameter is only relevant if
check_post_data		the HTTP Method is set to POST.
atu		When using the POST method,
str		up to 2047 characters of POST
		data can be sent to the server.
	Choices:	
check_use_get	• 0	When accessing the health check
		URL - the system can use the
int	• 1	HEAD, the GET, or the POST method.
	• 2	metrioù.
	Choices:	
	choices.	
	• ssl	
	• cookie	
	· COOKIE	
	 active-cookie 	Specify the type of persistence
persist	 cookie-src 	(stickiness) to be used for this
str	• COORC SIC	Virtual Service.
	• cookie-hash	
	 cookie-hash-src 	
	• url	
	• query-hash	
L	1	



	• hash	
	• host	
	• header	
	• super	
	• super-src src	
	• rdp	
	• rdp-src	
	• rdp-sb	
	 rdp-sb-src 	
	 udpsip 	
	• none	
persist_timeout int		The length of time (in seconds) after the last connection that the LoadMaster remembers the persistence information. Timeout values are rounded down to an even number of minutes. Setting a value that is not a number of whole minutes results in the excess being ignored. Setting a value to less than 60 seconds results in a value of 0 being set, which disables persistency.
match_len int		This parameter is only relevant when the check_type is set to bdata . Specify the number of bytes to find the check_pattern within; values 0-8000.
stand_by_addr str		Specify the IP address of the 'Sorry' server that is to be used when no other Real Servers are available. This server will not be health checked and is assumed



		to be always available.
stand_by_port		Specify the port of the 'Sorry'
int		server.
schedule str	Choices: Round-Robin Weighted-Round-Robin Least-Connection Weighted-Least-Connection Fixed-Weighting Adaptive-Resource-Based Source-IP-Hash Weighted-Response-Time 	Specify the type of scheduling of new connections to Real Servers that is to be performed.
rs_rule_precedence str	 SDN-Adaptive URL-Hash 	This parameter should be used in conjunction with rs_rule_ precedence_pos . This parameter is used to specify the name of the existing rule whose position you
rs_rule_precedence_pos int		want to change. This parameter, in conjunction with the rs_rule_precedence parameter, is used to change the position of the rule in a sequence of rules. For example, a position of 2 means the rule is checked second.
selection_rules str		Specify a list of selection rules to add to the SubVS.
request_header_rules		Add a list of request rules to a SubVS.

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str	
response_header_rules str	Add a list of response rules to a SubVS.

3.3 Examples

```
- name: Create a Sub VS
 hosts: localhost
 vars:
  central address: '10.35.23.180'
  central username: 'admin'
  central api key: '4ef39d1104767e18639bab'
  lm address: '10.35.23.2:443'
tasks:
- name: Create SubVS
  sub virtual service:
       central address: '{{ central address }}'
       central api key: '{{ central api key }}'
       central username: '{{ central username }}'
       lm address: '{{ lm address }}'
       vs: 10.35.23.100'
       port: 80
      prot: 'tcp'
       nickname: 'Beta'
       vs type: 'http'
       enable: 'Y'
       enhanced health checks: 1
       schedule: 'Round-Robin'
       content rules: ['matchRedHeader']
```

3.4 Return Values

Key	Returned	Description
message str	always	The message response indicating whethe the task created or modified the SubVS.

The following are the fields unique to this module:



		Sample:
		SubVS Updated
changed	always	A Boolean to indicate whether changes were made during the task
bool		true
		The parameters that were changed during the task.
dataChanged	when changed is true	Sample:
str		{"Transparent": "N", "UseforSnat": "N", "VSPort": "0", "VStype": "http", "NickName": "Epsilon"}
		The error message related to why the task failed.
msg	failed	Sample:
str	lanca	The minimum supported LoadMaster firmware version is 7.2.47.0.

3.5 Status

This module is maintained by Kemp Technologies.



4 Modify a Real Server on a LoadMaster

4.1 Synopsis

This module adds or modifies a Real Server to Virtual Services and SubVS on a LoadMaster. The minimum supported LoadMaster firmware version is 7.2.47.0. To configure a Real Server on a Virtual Service, the Virtual Service must be defined in your playbook before the Real Server. To configure a Real Server on a SubVS, the SubVS must be defined in your playbook before the Real Server.

4.2 Parameters

Parameter	Choices/ Defaults	Comments
lm_address		The IP address and port of the LoadMaster that contains the Virtual
str/required		Service or SubVS that the Real Server should be created or modified on.
lm_port str		The port of the LoadMaster.
central_address		The IP address of the Kemp 360 Central that the LoadMaster is added to.
str/required username		The Kemp 360 Central username.
str/required api_key str/required		The API key for the user of the Kemp 360 Central machine.
vs_ip str/required		The IP address of the Virtual Service on the provided LoadMaster.
vs_port		The port of the Virtual Service on the provided LoadMaster. Values are
int/required		between 3 and 65530.



	Choices	
vs_prot str/required	udptcp	The protocol of the Virtual Service on the provided LoadMaster.
rs_ip str/required		The IP address of the Real Server that is being created or modified.
rs_port		The port of the Real Server that is being created or modified. Values are
str/required rs_limit int		between 3 and 65530. The maximum number of open connections that can be sent to a Real Server before it is taken out of rotation. Values are between 0 and 100000.
rs_weight		When using weighted round robin scheduling, the weight of a Real Server is used to indicate what relative proportion of traffic should be sent to the server. Servers with higher values receive more traffic.
int		The weight of a SubVS can also be updated using the modrs command; set the Real Server to the number that appears in the Id column for the relevant SubVS in the parent Virtual Service modify screen.
rs_fw_method str	Choices nat route 	The type of forwarding method used. The default method is NAT. Direct server return can only be used with Layer 4 services.
rs_enable str	ChoicesY (default)N	Enable or disable the Real Server.
rs_critical int	Choices 0: Disabled 	Enabling this parameter indicates that the Real Server is required for the Virtual Service to be considered



	• 1: Enabled	available. The Virtual Service is marked as down if the Real Server has failed or is disabled.
sub_vs_nickname		To create or modify a Real Server on a
ctr		SubVS; the nickname of the SubVS
str		must be provided.
addtoallsubvs	Choices	Enable this option when adding a Real
	• 0: Disabled	Server to all SubVSs of a Virtual
int	• 1: Enabled	Service; values are 0 or 1.
newport		The port on the Real Server to be used.
int		Values are between 3 and 65535.
follow int		Specify what Real Server the health check is based on by setting this parameter to the RsIndex of the Real Server to be followed. This can either be set to the RsIndex of the same Real Server to health check based on that particular Real Server status, or another Real Server can be specified. For example, if Real Server 1 is down, any Real Servers that have their health check based on Real Server 1 are also marked as down, regardless of their actual Real Server status.
content_rules		A list of content rule names to be added to a Real Server. The names provided must be previously added to
list		the LoadMaster and must be Content
		Matching rules.

4.3 Examples

```
- name: Create Real Server
hosts: localhost
vars:
central address: '10.35.39.21'
```

LoadMaster Ansible Reference Guide

4 Modify a Real Server on a LoadMaster



```
lm address: '10.35.39.20:443'
  username: 'admin'
  api key: '699129a26ad34466a4cc'
 tasks:
- name: Create Real Server
 hosts: localhost
 tasks:
 - name: Create RS for VS 10.35.39.25:8010
   real server:
     lm_address: '{{ lm_address }}'
     central address: '{{ central address }}'
     username: '{{ username }}'
     api key: '{{ api key }}'
     vs_ip: '10.35.39.25'
     vs port: 8010
     vs prot: 'tcp'
     rs ip: '10.35.39.6'
     rs port: 4006
     rs limit: 220
```

4.4 Return Values

The following are the fields unique to this module:

Кеу	Returned	Description
message		The message response indicating whether the task created or modified the Real Server.
str	alwavs	Sample:
		Real Server 10.35.39.180:8010 created successfully
changed always bool	A Boolean to indicate whether changes were made during the task	
	Sample:	
		true
		The parameters that were changed during the task.
dataChanged	when changed is	Sample:
ctr	true	{"Addr": "10.35.39.180", "Critical": "N", "DnsName": null, "Enable": "Y", "Follow": "0", "Forward": "nat"}

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		The error message related to why the task failed.
msg	when task	Sample:
str	failed	The minimum supported LoadMaster firmware version is 7.2.47.0.

4.5 Status

This module is maintained by Kemp Technologies.





5 Add LDAP Authentication on the LoadMaster

5.1 Synopsis

Module to add LDAP authentication on LoadMaster.

5.2 Parameters

Parameter	Choices /Defaults	Comments
lm_address		The IP address and port of the LoadMaster. The format is
str		'ip:port'.
central_address		The IP address of the Kemp 360 Central machine that the
str		LoadMaster is added to.
username		The username of the Kemp 360 Central user.
str		
api_key str		The API key for the Kemp 360 Central machine.
name str		The name of the LDAP service.
	Choices:	
ldaptype str	 0 - Unencrypted (default) 1 - StartTLS 	Specify the transport protocol to use when communicating
	 2 - LDAPS 	with the LDAP server.
adminuser str		The username that is used to check the LDAP server.
adminpass		The password that is used to

LoadMaster Ansible Reference Guide

5 Add LDAP Authentication on the LoadMaster



str	check the LDAP server.
	Specify the address, or
	addresses, of the LDAP server to
server	be used. You can also specify a
str	port number, if desired.
	Separate multiple addresses
	with a space.
	Specify how often to revalidate
vinterval	the user the with the LDAP
atu	server.
str	Denge: 10 00400 eccende
	Range: 10 - 86400 seconds
	Multiple hops may increase
	authentication latency. There is
	a performance impact that
	depends on the number and
	depth of referrals required in
	your configuration. You must
	have intimate knowledge of
	your Active Directory structure
	to set the referral limit
	appropriately. The same
	credentials are used for all
	lookups, and so on. The use of
referralcount	Active Directory Global Catalog
str	(GC) is the preferred
	configuration as the primary means of resolution instead of
	enabling LDAP referral chasing.
	A GC query can be used to
	query the GC cache instead of
	relying on LDAP and the referral
	process. Using Active Directory
	GC has little or no performance
	drag on the LoadMaster. For
	steps on how to add/remove
	the GC, refer to the following
	TechNet article: Add or Remove
	the Global Catalog.

5 Add LDAP Authentication on the LoadMaster



	Specify the LDAP server timeout
timeout	in seconds.
str	The default value is 5. Valid
	values range from 5 to 60.

5.3 Examples

```
- name: Create a small configuration for LoadMaster
 hosts: localhost
 vars:
       central address: '10.35.60.27'
       central username: 'admin'
       central api key: '7291f46c25094ee5edc8ef4bf54c3144050e2717'
       lm address: '10.35.60.30'
       lm port: '443'
       vs ip: '10.35.60.123'
       vs port: 443
       vs prot: 'tcp'
       rs ip: '10.35.60.112'
 tasks:
       - name: Set SSO LDAP
         sso ldap:
               central address: '{{ central address }}'
               username: '{{ central username }}'
               api key: '{{ central api key }}'
               lm address: '{{ lm address }}'
               lm port: '{{ lm port }}'
               name: 'TestLdap'
               ldaptype: '2'
               server: 'ldap://10.35.23.154'
               vinterval: '240'
               adminuser: 'user123'
               adminpass: 'test'
               referralcount: 0
               timeout: 3600
```

5 Add LDAP Authentication on the LoadMaster



5.4 Return Values

The following are the fields unique to this module:

Кеу	Returned	Description
message	message	The message response indicating whether the task created or modified.
str	always	Sample:
		LDAP auth was configured successfully
changed		A Boolean to indicate whether changes were made during the task.
bool	always	Sample:
		true
dataChanged	when changed is true	The error message related to why the task failed.
		The error message relating to why the task failed.
msg	msg when task fails str	Sample:
str		The minimum supported LoadMaster firmware version is 7.2.47.0

5.5 Status

This module is maintained by Kemp Technologies.

6 Add or Modify an LDAP-based SSO on the LoadMaster



6 Add or Modify an LDAPbased SSO on the LoadMaster

6.1 Synopsis

Module to add or modify a Certificate based SSO on LoadMaster.

6.2 Parameters

Parameter	Choices /Defaults	Comments
lm_address		The IP address and port of the
str		LoadMaster. The format is 'ip:port'.
central_address str		The IP address of the Kemp 360 Central machine that the LoadMaster is added to.
username str		The username of the Kemp 360 Central user.
api_key str		The API key for the Kemp 360 Central machine.
domain str		Set the name for the logon domain you are providing.
auth_type str		Set the authentication type for the LoadMaster. For sso_ldap this can only be LDAP- Unencrypted .
ldap_endpoint str		The name of an existing LDAP endpoint. Specify the LDAP endpoint to use.
logon_domain str		This parameter corresponds with the Domain/Realm field in



6 Add or Modify an LDAP-based SSO on the LoadMaster

		the WUI. This is the login domain to be used. This is also used with logon_fmt to construct the normalized user name.
	Choices:	
logon_fmt str	 Principalname Username	Specify the logon string format used to authenticate to the LDAP server.
	Not Specified	
logon_transcode str	Choices:0: Disabled1: Enabled	Enable or disable the transcode of logon credentials from ISO- 8859-1 to UTF-8, when required.
	Choices:	Enable this parameter to use the
ldapephc str	• 0: Disabled	LDAP endpoint admin username and password for the health
	• 1: Enabled	check.
max_failed_auths str		The maximum number of failed login attempts before the user is locked out. Range: 0-999
unblock_tout str		The timeout value (in seconds) before a blocked account is automatically unblocked. This must be greater than the reset_ fail_tout value.
	Choices:	
sess_tout_type	• idle time	Specify the type of session timeout to be used.
	max duration	
<pre>sess_tout_idle_pub str</pre>		The session idle timeout value in seconds. This value is used in
		a public environment.
<pre>sess_tout_idle_priv str</pre>		The session idle timeout value in seconds. This value is used in
		a private environment.





	The maximum duration timeout
sess_tout_duration_priv	value for the session in seconds.
str	This value is used in a private
	environment.

6.3 Examples

```
- name: Create a small configuration for LoadMaster
 hosts: localhost
 vars:
      central address: '10.35.60.27'
      central username: 'admin'
      central api key: '7291f46c25094ee5edc8ef4bf54c3144050e2717'
      lm address: '10.35.60.30'
      lm port: '443'
      vs ip: '10.35.60.123'
      vs port: 443
      vs prot: 'tcp'
      rs ip: '10.35.60.112'
 tasks:
   - name: Set SSO LDAP
        sso ldap:
               central address: '{{ central address }}'
              username: '{{ central username }}'
              api_key: '{{ central api key }}'
               lm address: '{{ lm address }}'
              lm_port: '{{ lm port }}'
              domain: 'TestLdap'
              ldap endpoint: 'LDAP1'
              auth type: 'LDAP-Unencrypted'
              logon domain: 'logondomain'
               logon fmt: 'Not Specified'
              logon transcode: '0'
              max failed auths: '18'
              unblock tout: '2020'
               sess tout idle pub: '706'
              sess tout duration pub: '700'
              sess tout idle priv: '702'
               sess tout duration priv: '700'
               sess tout type: 'idle time'
```

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6 Add or Modify an LDAP-based SSO on the LoadMaster

```
ldapephc: '0'
testuser: 'user123'
testpass: 'test'
```

6.4 Return Values

Common return values are documented here; the following are the fields unique to this module:

Кеу	Returned	Description
message		The message response indicating whether the task created or modified.
str	always	Sample:
		Successfully updated SSO Parameters
changed		A Boolean to indicate whether changes were made during the task.
bool	always	Sample:
		true
dataChanged str	when changed is true	The parameters that were changed during the task.
		The error message relating to why the task failed.
msg	g when task fails	Sample:
str		The minimum supported LoadMaster firmware version is 7.2.47.0

6.5 Status

This module is maintained by Kemp Technologies.

7 Add or Modify a RADIUS-based SSO on the LoadMaster



7 Add or Modify a RADIUSbased SSO on the LoadMaster

7.1 Synopsis

Module to add or modify a RADIUS based SSO on LoadMaster.

7.2 Parameters

Parameter	Choices /Defaults	Comments
lm_address str		IP address and port of the LoadMaster. The format is 'ip:port'.
central_address str		The Kemp 360 Central IP address where the LoadMaster is added to.
username str		The username of the Kemp 360 Central user.
api_key str		The API key for the Kemp 360 Central user.
domain str		An identifer for the domain you are creating.
auth_type str		The type of SSO domain this will be. For RADIUS this should be 'RADIUS'.
radius_shared_secret		The shared secret to be used between the RADIUS server and the LoadMaster.
radius_send_nas_id str	Choices:0: Disabled1: Enabled	If enabled, a NAS identifer string (radius_ nas_id) is sent to the RADIUS server.
radius_nas_id		The Network Access Server (NAS) identifer

7 Add or Modify a RADIUS-based SSO on the LoadMaster



str		string
		string.
str		The address(s) of the server(s) to use to validate this domain. (IPv4 only)
logon_domain		The domain/realm used to construct
str		normalized username for login.
logon_fmt str		Specify the logon string format used to authenticate to the LDAP/RADIUS server.
logon_fmt2		
str		Specify an alternate logon string format used to authenticate to the LDAP/RADIUS.
	Choices:	
logon_transcode	• 0: Disabled	Enable or disable the transcode of logon credentials from ISO-8859-1 to UTF-8, when
str	• 1: Enabled	required.
max_failed_auths		The maximum number of failed login attempts before the user is locked out.
		Range: 0-999
unblock_tout str		The timeout value (in seconds) before a blocked account is automatically unblocked. This must be greater than the reset_fail_tout value.
<pre>sess_tout_idle_pub str</pre>		The session idle timeout value in seconds. This value is used in a public environment.
<pre>sess_tout_duration_pub str</pre>		The maximum duration timeout value for the session in seconds. This value is used in a public environment.
sess_tout_idle_priv		The session idle timeout value in seconds. This value is used in a private environment.
str sess_tout_duration_priv		The maximum duration timeout value for the session in seconds. This value is used in
str		a private environment.
sess_tout_type	Choices:	Specify the type of session timeout to be
str	• idle time	used.



7 Add or Modify a RADIUS-based SSO on the LoadMaster

	 max duration 	
		The number of seconds that must elapse
reset_fail_count		before the Failed Login Attempts counter is
str		reset to 0. This value must be less than the
		unblock_tout.

7.3 Examples

```
- name: Create a small configuration for LoadMaster
 hosts: localhost
 vars:
       central address: '10.35.60.27'
       central username: 'admin'
       central api key: '7291f46c25094ee5edc8ef4bf54c3144050e2717'
       lm address: '10.35.60.30'
       lm port: '443'
       vs ip: '10.35.60.123'
       vs port: 443
       vs_prot: 'tcp'
       rs ip: '10.35.60.112'
 tasks:
  - name: Set Radius SSO list
       sso radius:
               central address: '{{ central address }}'
               username: '{{ central username }}'
               api key: '{{ central api key }}'
               lm address: '{{ lm address }}'
               lm port: '{{ lm port }}'
               domain: 'TestRadius'
               auth type: 'RADIUS'
               server: '10.35.60.111'
               radius shared secret: 'def'
               radius send nas id: '0'
               radius nas id: '1'
               logon domain: 'domainTestABC'
               logon fmt: 'Username Only'
               logon fmt2: 'Principalname'
               logon transcode: 0
               max failed auths: '1'
```

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7 Add or Modify a RADIUS-based SSO on the LoadMaster

```
unblock_tout: '71'
sess_tout_idle_pub: '1301'
sess_tout_duration_pub: '1301'
sess_tout_idle_priv: '1302'
sess_tout_duration_priv: '1302'
sess_tout_type: 'idle time'
reset_fail_count: '79'
testuser: '123'
testpass: '123'
```

7.4 Return Values

The following are the fields unique to this module:

Кеу	Returned	Description
message	alwava	The message response indicating whether the SSO domain was
str	always	created successfully.
changed	alwaya	A Boolean to indicate whether changes were made during the
bool	always	task.
dataChanged	when changed	
str	is true	The parameters that were changed during the task.
msg	when took foile	The error measure relating to why the tool foiled
str	when task fails	s The error message relating to why the task failed.

7.5 Status

This module is maintained by Kemp Technologies.



8 Add or Modify a RADIUS-LDAP-based SSO on the LoadMaster

8.1 Synopsis

Module to add or modify a RADIUS-LDAP based SSO on LoadMaster.

8.2 Parameters

Parameter	Choices /Defaults	Comments
lm_address str		IP address and port of the LoadMaster. The format is 'ip:port'.
central_address str		The IP address of the Kemp 360 Central machine that the LoadMaster is added to.
username str		The username of the Kemp 360 Central user.
api_key str		The API key of the Kemp 360 Central user.
domain str		Set the name for the logon domain you are providing.
auth_type str		Set the authentication type for the LoadMaster. For sso_radius this can only be RADIUS and LDAP-Unencrypted .
ldap_endpoint str		The name of an existing LDAP endpoint. Specify the LDAP endpoint to use.
radius_shared_secret		The shared secret to be used between the RADIUS server and the LoadMaster.

LoadMaster Ansible Reference Guide





str		
radius_send_nas_id str	Choices: • 0: Disabled • 1: Enabled	If this parameter is disabled (default), a NAS identifier is not sent to the RADIUS server. If it is enabled, a Network Access Server (NAS) identifier string is sent to the RADIUS server. By default, this is the hostname. Alternatively, if a value is specified in the radius_nas_id parameter, this value is used as the NAS identifier. If the NAS identifier cannot be added, the RADIUS access request is still processed. This field is only available if the auth_type is set to a RADIUS option.
radius_nas_id str		If the radius_send_nas_id parameter is enabled, the radius_nas_id parameter is relevant. When specified, this value is used as the NAS identifier. Otherwise, the hostname is used as the NAS identifier. If the NAS identifier cannot be added, the RADIUS access request is still processed. This parameter is only relevant if the auth_ type is set to a RADIUS option and the radius_send_nas_id parameter is enabled.
server		The address (or addresses) of the server(s) that are to be used to validate this domain.
str		IPv6 is not supported for RADIUS authentication.
ldapephc str	Choices:0: Disabled1: Enabled	Enable this parameter to use the LDAP endpoint admin username and password for the health check.
testuser		The username to check the authentication
str		server(s), if you are not using an LDAP endpoint.
testpass		The password of the user to check the authentication server(s), if you are not using
str		an LDAP endpoint.
logon_domain		This parameter corresponds with the

kemp.ax



8 Add or Modify a RADIUS-LDAP-based SSO on the LoadMaster

str		Domain/Realm field in the WUI. The login domain to be used. This is also used with logon format to construct the normalized user name.
	Choices:	
logon_fmt	Principalname	Specify the logon string format used to
str	Username	authenticate to the LDAP server.
	Not Specified	
logon_transcode	Choices:	Enable or disable the transcode of logon
	• 0: Disabled	credentials from ISO-8859-1 to UTF-8, when
str	• 1: Enabled	required.
	Choices:	
max_failed_auths	• 0: Disabled	The maximum number of failed login attempts before the user is locked out.
str	• 1: Enabled	attempts before the user is tocked out.
unblock_tout		The timeout value (in seconds) before a blocked account is automatically unblocked. This must be greater than the
str		reset_fail_tout value.
sess_tout_idle_pub		The session idle timeout value in seconds.
str		This value is used in a public environment.
sess_tout_duration_pub		The maximum duration timeout value for
str		the session in seconds. This value is used in a public environment.
sess_tout_idle_priv		The session idle timeout value in seconds.
str		This value is used in a private environment.
sess_tout_duration_priv		The maximum duration timeout value for the session in seconds. This value is used in
str		a private environment.
	Choices:	
sess_tout_type str	• idle time	Specify the type of session timeout to be used.
	max duration	



8 Add or Modify a RADIUS-LDAP-based SSO on the LoadMaster

	The number of seconds that must elapse
reset_fail_tout	before the Failed Login Attempts counter
	is reset to 0. This value must be less than
int	the unblock_tout .
	Range: 60-86400

8.3 Examples

```
- name: Create a small configuration for LoadMaster
 hosts: localhost
 vars:
       central address: '10.35.60.27'
       central username: 'admin'
       central api key: '7291f46c25094ee5edc8ef4bf54c3144050e2717'
       lm address: '10.35.60.30'
       lm port: '443'
       vs_ip: '10.35.60.123'
       vs port: 443
       vs prot: 'tcp'
       rs ip: '10.35.60.112'
  tasks:
       - name: Set Radius LDAP SSO
         sso radius ldap:
               central address: '{{ central address }}'
               username: '{{ central username }}'
               api key: '{{ central api key }}'
               lm_address: '{{ lm_address }}'
               lm port: '{{ lm port }}'
               domain: 'TestLdapRadius'
               auth type: 'RADIUS and LDAP-Unencrypted'
               ldap endpoint: 'LDAP1'
               radius shared secret: 'def'
               radius send nas id: '1'
               radius nas id: 'ABC123'
               server: '10.35.60.111'
               ldapephc: '0'
               testuser: 'user123'
               testpass: 'test'
               logon domain: 'domainTestABC'
```

LoadMaster Ansible Reference Guide



8 Add or Modify a RADIUS-LDAP-based SSO on the LoadMaster

```
logon_fmt: 'Username Only'
logon_fmt2: 'Username'
logon_transcode: '0'
max_failed_auths: '1'
unblock_tout: '70'
sess_tout_idle_pub: '701'
sess_tout_duration_pub: '1201'
sess_tout_idle_priv: '702'
sess_tout_duration_priv: '1202'
sess_tout_type: 'idle time'
reset fail tout: '95'
```

8.4 Return Values

Кеу	Returned	Description
22.000.000		The message response indicating whether the task created or modified.
message	always	Sample:
str		Successfully updated SSO Parameters
chongod		A Boolean to indicate whether changes were made during the task.
changed	always	Sample:
bool		true
		The error message relating to why the task failed.
msg	when task fails	Sample:
str	The minimum supported LoadMaster firmware version is 7.2.47.0	

The following are the fields unique to this module:

8.5 Status

This module is maintained by Kemp Technologies.

9 Add or Modify a Certificate-based SSO on the LoadMaster



9 Add or Modify a Certificatebased SSO on the LoadMaster

9.1 Synopsis

Module to add or modify a certificate-based SSO on LoadMaster.

9.2 Parameters

Parameter	Choices /Defaults	Comments
lm_address str		The IP address and port of the LoadMaster. The format is 'ip:port'.
central_address str		The IP address of the Kemp 360 Central machine that the LoadMaster is added to.
username str		The username of the Kemp 360 Central user.
api_key str		The API key for the Kemp 360 Central machine.
domain str		An identifer for the domain you are creating.
logon_domain str		The domain/realm used to construct the normalized username for login.
auth_type str		The type of SSO domain this will be. For RADIUS this should be 'RADIUS'.
logon_fmt str		Specify the logon string format used to authenticate to the LDAP/RADIUS server.
logon_fmt2 str		Specify an alternate logon string format used to authenticate to the LDAP/RADIUS.





logon_transcode bool	Choices: • 0: Disabled • 1: Enabled	Enable or disable the transcode of logon credentials from ISO-8859-1 to UTF-8, when required.
reset_fail_tout str		The number of seconds that must elapse before the Failed Login Attempts counter is reset to 0. This value must be less than the unblock_tout .
unblock_tout str		The timeout value (in seconds) before a blocked account is automatically unblocked. This must be greater than the reset_fail_tout value.
max_failed_auths		The maximum number of failed login attempts before the user is locked out. (0- 999)
sess_tout_idle_pub str		The session idle timeout value in seconds. This value is used in a public environment.
<pre>sess_tout_duration_pub str</pre>		The maximum duration timeout value for the session in seconds. This value is used in a public environment.
sess_tout_idle_priv str		The session idle timeout value in seconds. This value is used in a private environment.
<pre>sess_tout_duration_priv str</pre>		The maximum duration timeout value for the session in seconds. This value is used in a private environment.
sess_tout_type str	Choices: • idle time • max duration	Specify the type of session timeout to be used.

9.3 Example

```
- name: Create a small configuration for LoadMaster
hosts: localhost
vars:
    central_address: '10.35.60.27'
```

LoadMaster Ansible Reference Guide



9 Add or Modify a Certificate-based SSO on the LoadMaster

```
central username: 'admin'
     central api key: '7291f46c25094ee5edc8ef4bf54c3144050e2717'
     lm address: '10.35.60.30'
     lm port: '443'
     vs ip: '10.35.60.123'
     vs port: 443
     vs prot: 'tcp'
     rs ip: '10.35.60.112'
tasks:
- name: Set SSO Certificates list
  sso certificate:
             central address: '{{ central address }}'
             username: '{{ central username }}'
             api key: '{{ central api key }}'
             lm address: '{{ lm address }}'
             lm port: '{{ lm port }}'
             domain: 'TestCert'
             ldap endpoint: 'LDAP1'
             auth type: 'Certificates'
             ldapephc: '0'
             logon domain: 'test'
             logon fmt: 'Not Specified'
             logon transcode: '1'
             max failed auths: '18'
             unblock tout: '4022'
             sess tout idle pub: '503'
             sess tout duration pub: '303'
             sess tout idle priv: '903'
             sess tout duration priv: '503'
             sess tout type: 'max duration'
             reset fail tout: '63'
             cert check asi: '1'
             cert check cn: '1'
             testuser: 'user123'
             testpass: 'test'
```

9.4 Return Values

The following are the fields unique to this module:

Кеу	Returned	Description
message	always	The message response indicating whether the SSO data was updated.



9 Add or Modify a Certificate-based SSO on the LoadMaster

str		Sample:
		Successfully updated SSO Parameters
- la		A Boolean to indicate whether changes were made during the task.
changed	always	Sample:
bool	true	
		The error message relating to why the task failed.
msg when task fails str	Sample:	
		Could not update SSO

9.5 Status

This module is maintained by Kemp Technologies.

10 Add or Modify a SAML-based SSO on the LoadMaster



10 Add or Modify a SAMLbased SSO on the LoadMaster

10.1 Synopsis

Module to add or modify a SAML-based SSO on LoadMaster. The minimum supported LoadMaster firmware version is 7.2.47.0.

10.2 Parameters

Parameter	Choices /Defaults	Comments
lm_address str		IP address and port of the LoadMaster. The format is 'ip:port'.
central_address str		The IP address of the Kemp 360 Central machine that the LoadMaster is added to.
username str		The username of the Kemp 360 Central user.
api_key str		The API key for the Kemp 360 Central user.
domain str		Set the name for the logon domain you are providing.
auth_type str		Set the authentication type for the LoadMaster. For sso_saml this can only be SAML .
idp_entity_id str		Specify the Identity Service Provider (IdP) Entity ID.
idp_sso_url str		Specify the IdP Single Sign On (SSO) URL.
idp_cert		Specify the IdP certificate to use for

LoadMaster Ansible Reference Guide

10 Add or Modify a SAML-based SSO on the LoadMaster



str		verification processing.
sp_cert str		It is optional to sign requests that are sent in the context of logon. Currently, the LoadMaster does not sign those requests. In the context of log off requests - it is mandatory and these requests must be signed. This is to avoid any spoofing and to provide extra security in relation to log off functionality. This ensures that users are not being hacked and not being logged off unnecessarily. In the sp_cert parameter, you can choose to use a self-signed certificate or third party certificate to perform the signing. To specify a self-signed certificate, set sp_cert to useselfsigned . To use a third party certificate, specify the name of the certificate to use (this certificate must be uploaded to the intermediate certificate section of the LoadMaster before it can be selected). The Service Provider (SP) entity ID is an identifier that is shared to enable the IdP to
sp_entity_id str		understand, accept, and have knowledge of the entity when request messages are sent from the LoadMaster. This must correlate to the identifier of the relying party on the AD FS server.
sess_tout_idle_pub		The session idle timeout value in seconds.
str		This value is used in a public environment.
<pre>sess_tout_duration_pub str</pre>		The maximum duration timeout value for the session in seconds. This value is used in a public environment.
sess_tout_type str	Choices: • idle time • max duration	Specify the type of session timeout to be used.
idp_match_cert	Choices:	If this option is enabled, the IdP certificate

10 Add or Modify a SAML-based SSO on the LoadMaster



ctr	• 0: Disabled	assigned must match the certificate in the
SU	• 1: Enabled	IdP SAML response.

10.3 Examples

```
- name: Create a small configuration for LoadMaster
 hosts: localhost
 vars:
       central address: '10.35.34.2'
       central username: 'admin'
       central api key: 'b54058156b44a6ac818d58e6bc92b3ce57f17aa3'
       lm address: '10.35.34.134'
       lm port: '443'
       vs ip: '10.35.60.123'
       vs port: 443
       vs prot: 'tcp'
       rs ip: '10.35.60.112'
  tasks:
    - name: Set SAML SSO list
         sso saml:
               central_address: '{{ central address }}'
               username: '{{ central username }}'
               api key: '{{ central api key }}'
               lm address: '{{ lm address }}'
               lm port: '{{ lm port }}'
               domain: 'TestSaml'
               auth type: 'SAML'
               idp entity id: 'test abc123'
               idp sso url: 'https://www.def.com/url/abc123'
               idp logoff url: 'https://www.def.com/url/logoff123'
               idp cert: '1'
               sp cert: '38FCF8174F0E9FCF1318FC5758E8F5BC5BD6EA6D'
               sp entity id: '09876'
               sess tout idle pub: '802'
               sess tout duration pub: '1200'
               sess tout type: 'idle time'
               idp match cert: '0'
```

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10 Add or Modify a SAML-based SSO on the LoadMaster

10.4 Return Values

Common return values are documented here; the following are the fields unique to this module:

Кеу	Returned	Description
message str	always	The message response indicating whether the SSO data was updated
		Sample:
		Successfully updated SSO Parameters
changed bool	always	A Boolean to indicate whether changes were made during the task.
		Sample:
		true
msg str	when task fails	The error message relating to why the task failed.
		Sample:
		Could not update SSO

10.5 Status

This module is maintained by Kemp Technologies.



11 Add GEO FQDN Data

11.1 Synopsis

Module to add GEO FQDN data on the LoadMaster.

11.2 Parameters

Parameter	Choices /Defaults	Comments
central_api_key str		The API key for the user of the Kemp 360 Central machine.
central_address		The Kemp 360 Central IP address.
central_username		The username of the Kemp 360 Central user.
lm_address str		The IP address of the LoadMaster that is attached to Kemp 360 Central.
lm_port int		The port of the LoadMaster.
fqdn str		The FQDN to be added or edited on the LoadMaster.
fail_over		This parameter is only relevant if the selection criteria is set to Location Based .
selection_criteria str	Choices: • rr • wrr • fw • rsr	The selection criteria for addresses associated with the FQDN.

kemp.ax

11 Add GEO FQDN Data



 prx lb all 	
• all	
fail_time	If a failure delay is not set, normal health checking is performed.
	If set, this parameter defines the number of
int	minutes to wait after a failure before finally disabling it.
Choices:	If this is set to automatic, upon site recovery the site is brought back into operation immediately.
• auto	If this is set to manual, once the site has
• manual	failed, the site is disabled. Manual
	intervention is required to restore normal
	operation.
Choices: • 0	Restrict responses to clients from public IP addresses to specific classes of site. Here is an explanation of the different settings and their values:
public_request_value 1 	• 0 - Public Sites Only
int • 2	• 1 - Prefer Public Sites
• 3	• 2 - Prefer Private Sites
	• 3 - Any Sites
Choices:	Restrict responses to clients from private IP addresses to specific classes of site. Here is an explanation of the different settings and
• 0 private_request_value	their values:
• 1	• 0 - Private Sites Only
int • 2	• 1 - Prefer Private Sites
• 3	• 2 - Prefer Public Sites
	• 3 - Any Sites
local_settings Choices:	Enabling this parameter provides two

11 Add GEO FQDN Data



int	0: Disabled1: Enabled	additional parameters for the FQDN - local_ ttl and local_sticky .
local_ttl int		The Time To Live (TTL) value dictates how long the reply from the GEO LoadMaster can be cached by other DNS servers or client devices. The time interval is defined in seconds. This value should be as practically low as possible. The default value for this field is 10. Defaults to the value of the global ttl value when an FQDN is created. Range: 1 to 86400
local_sticky int		Stickiness, also known as persistence, is the property that enables all name resolution requests from an individual client to be sent to the same resources until a specified period of time has elapsed.
unanimous_checks int	Choices: • 0: Disabled • 1: Enabled	When this parameter is enabled, if any IP addresses fail health checking - the other FQDN IP addresses which belong to the same cluster will be forced down.

11.3 Examples

```
- name: Add FQDN to LoadMaster
hosts: localhost
vars:
    central_address: '10.35.53.100'
    lm_address: '10.35.53.101'
    lm_port: 443
    username: 'admin'
    api_key: '699129a26ace3fcd34466a4cc'
    domain: 'example.com'
tasks:
- name: Add FQDN to LoadMaster
    geo_fqdn:
```

LoadMaster Ansible Reference Guide

11 Add GEO FQDN Data



```
lm_address: '{{ lm_address }}'
lm_port '{{ lm_port }}'
central_address: '{{ central_address }}'
central_username: '{{ username }}'
central_api_key: '{{ api_key }}'
fqdn: '{{ domain }}'
selection_criteria: 'wrr'
fail_time: 50
site_recovery_mode: 'auto'
local_settings: 1
local_ttl: 302
local_sticky: 304
unanimous checks: 1
```

11.4 Return Values

The following are the fields unique to this module:

Кеу	Returned	Description
message		The message response indicating whether the GEO FQDN data was updated.
str	always	Sample:
	Successfully updated FQDN Parameters	
changed		A Boolean to indicate whether changes were made during the task.
changed	always	Sample:
bool	true	
		The error message relating to why the task failed.
^{msg} when task str fails	Sample:	
		Could not update FQDN,

11.5 Status

kem	p.ax



12 Update GEO Maps and Clusters

12 Update GEO Maps and Clusters

12.1 Synopsis

Module to update GEO maps and cluster data on the LoadMaster.

12.2 Parameters

Parameter	Choices /Defaults	Comments	
central_api_key		The API key for the user of the Kemp 360 Central machine.	
str			
central_address		The IP address of Kemp 360 Central.	
str			
central_username		The username of the Kemp 360 Central user.	
str			
lm_address		The IP address of the LoadMaster attached	
str		to Kemp 360 Central.	
lm_port		The LoadMaster port that is attached to	
int		Kemp 360 Central.	
fqdn		The FQDN of the GEO configuration.	
str		6	
cluster_ip		The cluster IP address to be set.	
str			
cluster_name		The eluctor ciclus area to be est	
str		The cluster nickname to be set.	
cluster_type	Choices:		
str	• default	The type of cluster.	

12 Update GEO Maps and Clusters



	1	1
	 remoteLM 	
	 localLM 	
	Choices:	
cluster_checker	• none	Specify the method used to check the
str	• tcp	status of the cluster.
	• icmp	
cluster_checker_port		
int		Specify the port of the cluster.
	Choices:	
cluster_enable	• 0: Disabled	Enable or disable the cluster.
int	• 1: Enabled	
cluster_latitude_seconds		
int		The latitude of the cluster.
cluster_longitude_seconds		
int		The longitude of the cluster.
map_ip		
str		The IP address of the cluster.
	Choices:	
	 none 	
map_checker	• icmp	The type of checking to do on the map.
str	• tcp	
	 clust 	
map_weight		
int		The weight of the map.
map_address		
str		The map IP address to check.
map_port		
int		The map port to be addressed.
map_enable	Choices:	Enable or disable the map.

12 Update GEO Maps and Clusters



:t	• 0: Disabled	
int	• 1: Enabled	
map_latitude_seconds		The man longitude
str		The map longitude.
map_longitude_seconds		The map langitude
str		The map longitude.
checker_ip		Specify the address used to health check
str		the IP address.
checker_port		The address port used to health check the
str		IP address.
country_code		The second
str		The country code.
•	Choices:	When dealing with a country - the is_
is_continent	• 0: Disabled	continent parameter must be set to 0 .
int	1. Enablad	When adding a continent - the is_continent parameter must be set to 1 .
	• 1: Enabled	
custom_location		The custom location.
str		

12.3 Examples

LoadMaster Ansible Reference Guide



12 Update GEO Maps and Clusters

```
central username: '{{ central username }}'
central api key: '{{ central api key }}'
lm address: '{{ lm address }}'
lm port: '{{ lm port }}'
central api key: '{{ central api key }}'
fqdn: '{{ domain }}'
cluster ip: '10.35.53.100'
cluster_type: 'default'
cluster name: 'Cluster'
cluster checker: 'tcp'
cluster checker port: 8080
cluster enable: 1
cluster latitude seconds: 360
cluster longitude seconds: 360
map_ip: '10.35.53.101'
map enable: 1
map checker: 'tcp'
map weight: 500
checker ip: '10.35.53.190'
checker port: 7893
country code: 'IE'
is continent: 0
```

12.4 Return Values

The following are the fields unique to this module:

Кеу	Returned	Description
message		The message response indicating whether the task created or modified the GEO map or cluster.
str	always	Sample:
		Map cluster and data updated
changed		A Boolean to indicate whether changes were made during the task.
bool	always	Sample:
DOOL	true	
dataChanged	when changed	The parameters that were changed during the task.
str	is true	The parameters that were changed during the task.



msø	msg when task fails str	The error message relating to why the task failed.
0		Sample:
50		Could not update cluster and map data

12.5 Status

kemp.ax



13 Update GEO Miscellaneous Options and GEO Partnership

13.1 Synopsis

Module to update GEO miscellaneous options and GEO partnership.

13.2 Parameters

Parameter	Choices /Defaults	Comments
central_api_key str		The API key for the user of the Kemp 360 Central machine.
central_address		The Kemp 360 Central IP address.
central_username str		The username of the Kemp 360 Central user.
lm_address str		The IP address of the LoadMaster that is attached to Kemp 360 Central.
lm_port int		The port of the LoadMaster IP address.
zone str		Specify the zone name.
<pre>source_of_authority str</pre>		The response set for Source of Authority requests.
soa_email str		Email address of the person responsible for the zone and to which email may be sent to report errors or problems. This

kemp.ax



13 Update GEO Miscellaneous Options and GEO Partnership

	is the email address of a suitable DNS administrator but more commonly the technical contact for the domain.
name_server	Set the response sent for Name Server requests.
ttl int	Set the Time To Live (TTL) (in seconds).
persist int	This corresponds with the Stickiness WUI field. This determines how long (in seconds) a specific response will be returned to a host.
check_interval	Set how often (in seconds) that devices will be checked.
conn_timeout int	Set the timeout (in seconds) for the check request.
retry_attempts	Set the number of times the check will be retried before the device is marked as failed
111	Range: 2-10
ip_range list	The IP range data to be added. This must include the CIDR number per IP range.
latitude str	Latitude data to be added to the IP range.
longtitude str	Longtitude data to be added to the IP range.
country_code	Country code data to be added to the IP range.
custom_location	Custom location data to be added to the IP range.
white_list	White list of allowed IP ranges.



13	Update	GEO	Miscellaneous	Options	and	GEO	Partnership
----	--------	-----	---------------	---------	-----	-----	-------------

list		
	Choices:	
algorithm	• RSASHA256	The algorithm to be used in
str	• NSEC3RSASHA1	DNS.
	NSEC3RSASHA1	
	Choices:	
key_size	• 1024	The key size to be used in
int	• 2048	DNS.
	• 4096	
due enclu	Choices:	
dns_enable	• 0: Disabled	Enable or disable DNS in GEO.
	• 1: Enabled	
geo_clients list		Set the addresses of the GEO LoadMasters which can retrieve service status information from the LoadMaster.
geo_partners		Set the IP address of the GEO LoadMaster partner(s). These GEO LoadMasters will keep
list		their DNS configurations in sync.
geo_ssh_port		The port over which GEO LoadMasters will communicate
int		with each other.
geo_ssh_interface		Specify the ID of the GEO interface in which the SSH partner tunnel is created, for
int		example, setting this to 0 means the interface eth0.

13.3 Examples

- name: Add FQDN to LoadMaster

LoadMaster Ansible Reference Guide

送 kemp

13 Update GEO Miscellaneous Options and GEO Partnership

```
hosts: localhost
vars:
     central address: '10.35.53.100'
     lm address: '10.35.53.101'
     lm port: 443
     username: 'admin'
     api key: '699129a26ace3fcd34466a4cc'
     tasks:
     - name: Add FQDN to LoadMaster
       geo fqdn:
             lm_address: '{{ lm_address }}'
             lm port '{{ lm port }}'
             central address: '{{ central address }}'
             central username: '{{ username }}'
             central api key: '{{ api key }}'
             geo clients: ['10.35.53.200']
             geo partners: ['10.35.53.220']
             geo ssh port: 22
```

13.4 Return Values

The following are the fields unique to this module:

Кеу	Returned	Description
message		The message response indicating whether the miscellaneous data was updated.
str	always	Sample:
		Successfully updated MISC Parameters
changed		A Boolean to indicate whether changes were made during the task.
bool	always	Sample:
DOOL		true
mca		The error message relating to why the task failed.
msg	when task fails	Sample:
str		Could not update MISC,

kemp.ax

13 Update GEO Miscellaneous Options and GEO Partnership



13.5 Status

kemp.ax



14 Upload a Certificate and Key on a LoadMaster

14 Upload a Certificate and Key on a LoadMaster

14.1 Synopsis

This module uploads a certificate and key to a LoadMaster. A certificate and key must be in the same file being uploaded. A certificate upload must be defined in your playbook before being assigned to a Virtual Service.

14.2 Parameters

Parameter	Choices/ Defaults	Comments	
api_key			
str/required		The API key for the user of the Kemp 360 Central machine.	
central_			
address		The IP address of the Kemp 360 Central that the LoadMaster is added to.	
str/required			
cert_name			
str/required		The name of the identifier of the cert to upload or replace.	
cert_file		Path to the file where the key and cert are stored. This must have	
str/required		both key and cert in the same file.	
	Choices:		
replace	• 0	A Boolean to upload the cert to replace the current cert.	
int/required			
	• 1		
username		The Kemp 360 Central username.	
int/required		The Kemp 500 central username.	
intermediate	Choices:	A Boolean to specify if the cert is an intermediate or not.	





	• 0
int	(default)
	• 1

14.3 Example

```
- name: Upload a certificate to the LoadMaster
  hosts: localhost
  vars:
   central address: '10.35.39.21'
   lm address: '10.35.39.20:443'
   username: 'admin'
   api key: '699129a26ace3fcd34466a4cc'
  tasks:
  - name: Upload a certificate to the LoadMaster
     cert management:
      lm address: '{{ lm address }}'
      central address: '{{ central address }}'
      cert name: 'cert'
      cert file: '/path/to/cert/test.pem'
      replace: 0
      username: '{{ username }}'
      api key: '{{ api key }}'
```

14.4 Return Values

Кеу	Returned	Description	
		The message response indicating whether the certificate was uploaded.	
message str	always	Sample:	
		Certificate uploaded to LoadMaster	
changed	alwaya	A Boolean to indicate whether changes were made during the task	
bool	always	true	
msg	when task	The error message related to why the task failed.	

Common return values are documented here; the following are the fields unique to this module:

14 Upload a Certificate and Key on a LoadMaster



		Sample:
str	failed	Could not add Certificate to LM - Command Failed: Certificate Identifier already exists

14.5 Status

This module is maintained by Kemp Technologies.



15 Add or Modify a Header Rule

15 Add or Modify a Header Rule

15.1 Synopsis

This module adds or modifies addHeaderRules on a LoadMaster. The minimum supported LoadMaster firmware version is 7.2.47.0. Rules must be defined in your playbook before being assigned to Virtual Services, SubVSs, and Real Servers.

15.2 Parameters

Parameter	Choices/ Defaults	Comments
lm_address		The IP address and port of the LoadMaster. The
str/required		format is 'ip:port'.
central_address		The IP address of the Kemp 360 Central that the
str/required		LoadMaster is added to.
username		The Kenne 200 Control or one of
str/required		The Kemp 360 Central username.
api_key		The API key for the user of the Kemp 360
str/required		Central machine.
name		
str/required		The name of the AddHeaderRule.
header		
str/required		The name of the header field to be added.
replacement		The replacement string. You can enter a
str/required		maximum of 255 characters in this parameter.
only_on_flag		Range: 1-9. Only try to execute this rule if the

15 Add or Modify a Header Rule



	specified flag is set. Using the only_on_flag and
	set_on_match parameters, it is possible to
int	make rules dependent on each other, that is,
	only execute a particular rule if another rule
	has been successfully matched.

15.3 Examples

```
- name: Create AddHeaderRule
 hosts: localhost
 vars:
  central address: '10.35.39.21'
  lm address: '10.35.39.20:443'
  username: 'admin'
  api key:'699129a26ace3fcd34466a4cc'
  tasks:
- name: Create AddHeaderRule
 add header rule:
   lm address: '{{ lm address }}'
   central address: '{{ central address }}'
   username: '{{ username }}'
   api key: '{{ api key }}'
   name: 'addHeaderRule1'
   header: 'name'
    replacement: 'username'
```

15.4 Return Values

The following are the fields unique to this module:

Кеу	Returned	Description
		The message response indicating whether the task created or modified the rule.
message str	always	Sample:
		AddHeaderRule with name addHeaderRule1 was created successfully
changed	always	A Boolean to indicate whether changes were made during the

15 Add or Modify a Header Rule



		task		
bool		Sample:		
		true		
		The parameters that were changed during the task. Sample:		
dataChanged	when changed is true			
str		{"Header": "name","HeaderValue": "username","Name": "addHeaderRule1"}		
		The error message related to why the task failed.		
msg	when task failed	Sample:		
str		The minimum supported LoadMaster firmware version is 7.2.47.0.		

15.5 Status

16 Delete Header Rule



16 Delete Header Rule

16.1 Synopsis

This module adds or modifies a deleteHeaderRule on a LoadMaster. The minimum supported LoadMaster firmware version is 7.2.47.0. Rules must be defined in your playbook before being assigned to Virtual Services, SubVS, and Real Servers.

16.2 Parameters

Parameter	Choices/ Defaults	Comments
lm_address		The IP address and port of the LoadMaster. The format
str/required		is 'ip:port'.
central_address		The IP address of the Kemp 360 Central that the
str/required		LoadMaster is added to.
username		The Kemp 360 Central username.
str/required		
api_key		The API key for the user of the Kemp 360 Central
str/required		machine.
name		The name of the DeleteHeaderRule.
str/required		The name of the DeleteneaderRule.
pattern		
str		The pattern to be matched.
		Range: 1-9. Only try to execute this rule if the specified
only_on_flag		flag is set. Using the only_on_flag and set_on_match
int		parameters, it is possible to make rules dependent on
int		each other, that is, only execute a particular rule if
		another rule has been successfully matched.

16.3 Examples

- **name:** Create DeleteHeaderRule

16 Delete Header Rule



hosts localhost

```
vars:
    central_address: '10.35.39.21'
    lm_address: '10.35.39.20:443'
    username: 'admin'
    api_key: '699129a26ace983fcd34466a4cc'
tasks:
    name: Create DeleteHeaderRule
    delete_header_rule:
        lm_address: '{{ lm_address }}'
        central_address: '{{ central_address }}'
        username: '{{ username }}'
        api_key: '{{ api_key }}'
        name: 'deleteHeaderRule1'
        pattern: '^((http[s]?|ftl):\/)$'
```

16.4 Return Values

Кеу	Returned	Description
	always	The message response indicating whether the task created or modified the rule.
message str		Sample:
		DeleteHeaderRule with name deleteHeaderRule1 was created successfully
	always	A Boolean to indicate whether changes were made during the task
changed		LdSK
bool		Sample:
		true
		The parameters that were changed during the task.
dataChanged str	when changed is true	Sample:
		{"Name": "deleteHeaderRule1", "Pattern": "^((http[s]? ftl):\\/)\$"}
msg	when task failed	The error message related to why the task failed.

The following are the fields unique to this module:

16 Delete Header Rule



Sample:

str

The minimum supported LoadMaster firmware version is 7.2.47.0.

16.5 Status

17 Replace Body Rule



17 Replace Body Rule

17.1 Synopsis

This module adds or modifies a replaceBodyRule on a LoadMaster. The minimum supported LoadMaster firmware version is 7.2.47.0. Rules must be defined in your playbook before being assigned to Virtual Services, SubVS, and Real Servers.

17.2 Parameters

Parameter	Choices/ Defaults	Comments
lm_address		The IP address of the LoadMaster.
str/required		
lm_port		The port of the LoadMaster.
str		
central_address		The IP address of the Kemp 360 Central that the LoadMaster is
str/required		added to.
username		The Kemp 360 Central username.
str/required		
api_key		The API key for the user of the
str/required		Kemp 360 Central machine.
name		The name of the ReplaceBodyRule.
str/required		
replacement str/required		The replacement string.
pattern		The pettern to be metabod
str		The pattern to be matched.
only_on_flag		Range: 1-9. Only try to execute this rule if the specified flag is set. Using
int		the only_on_flag and set_on_

kemp.ax





		match parameters, it is possible to make rules dependent on each other, that is, only execute a particular rule if another rule has
		been successfully matched.
	Choices:	
case_independent	• 0: Disabled	Enable this parameter to ignore the case of the strings when comparing.
	• 1: Enabled	

17.3 Examples

```
- name: Create ReplaceBodyRule
  hosts: localhost
  vars:
  central address: '10.35.39.21'
  lm address: '10.35.39.20:443'
  username: 'admin'
   api key: '699129a26acd34466a4cc'
  tasks:
  - name: Create ReplaceBodyRule
    replace body rule:
        lm address: '{{ lm address }}'
        central address: '{{ central address }}'
        username: '{{ username }}'
        api key: '{{ api key }}'
        name: 'replaceBodyRule1'
        case independent: 1
        replacement: 'username'
        pattern: '^((http[s]?|ftl):\/)$'
```

17.4 Return Values

Кеу	Returned	Description
message str	always	The message response indicating whether the task created or modified the rule.

The following are the fields unique to this module:

17 Replace Body Rule



		Sample:
		ReplaceBodyRule with name replaceBodyRule1 was created successfully
chongod		A Boolean to indicate whether changes were made during the task
changed	always	Sample:
bool		true
		The parameters that were changed during the task.
dataChanged	when changed is	Sample:
str	true	{"CaseIndependent": "N","Name": "replaceBodyRule1","Pattern": "^ ((http[s]? ftl):\\/)\$","Replacement": "username"}
		The error message related to why the task failed.
msg str	when task failed	Sample:
		The minimum supported LoadMaster firmware version is 7.2.47.0.

17.5 Status

18 Replace Header Rule



18 Replace Header Rule

18.1 Synopsis

This module adds or modifies a replaceHeaderRule to a LoadMaster. The minimum supported LoadMaster firmware version is 7.2.47.0. Rules must be defined in your playbook before being assigned to Virtual Services, SubVS, and Real Servers.

18.2 Parameters

Parameter	Choices/Defaults	Comments
lm_address		
str/required		The IP address of the LoadMaster.
lm_port		
		The port of the LoadMaster.
str		
central_address		The IP address of the Kemp 360 Central that
str/required		the LoadMaster is added to.
username		
		The Kemp 360 Central username.
str/required		
api_key		The API key for the user of the Kemp 360
str/required		Central machine.
name		
		The name of the ReplaceHeaderRule.
str/required		
header		The header field name where the substitution
str		should be performed.
replacement		
		The replacement string.
str/required		
pattern		The wettern to be weetched
str		The pattern to be matched.
		Range: 1-9. Only try to execute this rule if the
only_on_flag		specified flag is set. Using the only_on_flag

18 Replace Header Rule



	and set_on_match parameters, it is possible
int	to make rules dependent on each other, that
IIIt	is, only execute a particular rule if another
	rule has been successfully matched.

18.3 Examples

```
- name: Create ReplaceHeaderRule
 hosts: localhost
 vars:
  central_address: '10.35.39.21'
  lm address: '10.35.39.20:443'
  username: 'admin'
  api key: '699129a26ace406fd65ee30a6983fcd34466a4cc'
 tasks:
 - name: Create ReplaceHeaderRule
   replace_header rule:
       lm address: '{{ lm address }}'
       central address: '{{ central address }}'
       username: '{{ username }}'
       api key: '{{ api key }}'
       name: 'replaceHeaderRule1'
       header: 'name'
       replacement: 'username'
       pattern: '^((http[s]?|ftl):\/)$'
```

18.4 Return Values

Кеу	Returned	Description
		The message response indicating whether the task created or modified the rule.
message str	always	Sample:
0.1		ReplaceHeaderRule with name replaceHeaderRule1 was created successfully
changed	always	A Boolean to indicate whether changes were made during the task
	-	· ·

The following are the fields unique to this module:

18 Replace Header Rule



bool	Sample:	
DOOL		true
		The parameters that were changed during the task.
dataChanged str	when changed is true	Sample:
		{"Header": "name","Name": "replaceHeaderRule1", "Pattern": "^((http [s]? ftl):\\/)\$",Replacement": "username"}
		The error message related to why the task failed.
msg str	when task failed	Sample:
		The minimum supported LoadMaster firmware version is 7.2.47.0.

18.5 Status



19.1 Synopsis

This module adds or modifies a matchContentRule on a LoadMaster. The minimum supported LoadMaster firmware version is 7.2.47.0. Rules must be defined in your playbook before being assigned to Virtual Services, SubVS, and Real Servers.

19.2 Parameters

Parameter	Choices/Defaults	Comments
lm_address		The IP address and port of the LoadMaster. The format is 'ip:port'.
str/required		
central_address		The IP address of the Kemp 360 Central that the LoadMaster is added
str/required		to.
username		The Kemp 360 Central username.
str/required		
api_key		The API key for the user of the Kemp
str/required		360 Central machine.
name		The name of the MatchContentRule.
str/required		
	Choices:	
match_type	• regex	The name of the MatchContentRule.
str/required	• prefix	
	 postfix 	
include_host		Prepend the hostname to request URI
str		before performing the match.
ignore_case		Ignore case when comparing the
str		strings.
negate_match		Ignore case when comparing the



str		strings.
include_query str		Append the query string to the URI before performing a match.
header str/required		The header field name that should be matched. If no header field is set, the default is to match in the URL. Set this to body to match on the body of a request.
pattern str/required		The pattern to be matched.
set_on_match		If the rule is successfully matched, set the specified flag. Accepted values: 0- 9.
only_on_flag int		Range: 1-9. Only try to execute this rule if the specified flag is set. Using the only_on_flag and set_on_match parameters, it is possible to make rules dependent on each other, that is, only execute a particular rule if another rule has been successfully matched.
must_fail	Choices: • 0: Disabled • 1: Enabled	If this rule is matched, then always fail to connect.

19.3 Examples

```
- name: Create ModifyURLRule
hosts: localhost
vars:
   central_address: '10.35.39.21'
   lm_address: '10.35.39.20:443'
   username: 'admin'
   api_key: '699129a26acecd34466a4cc'
```

tasks:



```
- name: Create ModifyURLRule
match_content_rule:
lm_address: '{{ lm_address }}'
central_address: '{{ central_address }}'
username: '{{ username }}'
api_key: '{{ api_key }}'
name: 'matchContentRule1'
match_type: 'regex'
include_host: 'Y'
ignore_case: 'Y'
header:'username'
pattern: '^((http[s]?|ftl):\/)$'
```

19.4 Return Values

Кеу	Returned	Description
		The message response indicating whether the task created or modified the rule.
message	always	Sample:
str		MatchContentRule with name matchContentRule1 was created successfully
changed		A Boolean to indicate whether changes were made during the task
changed bool	always	Sample:
DOOL		true
		The parameters that were changed during the task.
dataChanged	when changed is	Sample:
str	true	{"CaseIndependent": "Y","Header": "username","MatchType": "Regex","Name": "matchContentRule1","Pattern": "^((http[s]? ftl):\\/)\$"}
	when task failed	The error message related to why the task failed.
str		Sample:
		The minimum supported LoadMaster firmware version is 7.2.47.0.

The following are the fields unique to this module:

```
kemp.ax
```



19.5 Status

kemp.ax

20 Add or Modify a modifyURLRule on a LoadMaster



20 Add or Modify a modifyURLRule on a LoadMaster

20.1 Synopsis

This module adds or modifies a modifyURLRule on a LoadMaster. The minimum supported LoadMaster firmware version is 7.2.47.0. Rules must be defined in your playbook before being assigned to Virtual Services, SubVS, and Real Servers.

20.2 Parameters

Parameter	Choices /Defaults	Comments	
lm_address		The IP address of the LoadMaster.	
str/required			
lm_port		The port of the LoadMaster.	
str			
central_address		The IP address of the Kemp 360 Central that the	
str/required		LoadMaster is added to.	
username		The Kerne 200 Central wearname	
str/required		The Kemp 360 Central username.	
api_key		The API key for the user of the Kemp 360 Central	
str/required		machine.	
name		The name of the Mediful DLD.	
str/required		The name of the ModifyURLRule.	
replacement			
str/required		How the URL is to be modified.	

20 Add or Modify a modifyURLRule on a LoadMaster



pattern str	The pattern to be matched.
only_on_flag int	Range: 1-9. Only try to execute this rule if the specified flag is set. Using the only_on_flag and set_ on_match parameters, it is possible to make rules dependent on each other, that is, only execute a particular rule if another rule has been successfully matched.

20.3 Examples

```
- name: Create ModifyURLRule
 hosts: localhost
 vars:
   central address: '10.35.39.21'
   lm address: '10.35.39.20:443'
   username: admin
    api key: '699129a26accd34466a4cc'
 tasks:
   - name: Create ModifyURLRule
    modify url rule:
      lm address:'{{ lm address }}'
      central address: '{{ central address }}'
     username: '{{ username }}'
      api key:'{{ api key }}'
      name: 'ModifyURLRule1'
      replacement: 'username'
     pattern: '^((http[s]?|ftl):\/)$'
```

20.4 Return Values

The following are the fields unique to this module:

Кеу	Returned	Description
message str	always	The message response indicating whether the task created or modified the rule.
		Sample:

kemp.ax



20 Add or Modify a modifyURLRule on a LoadMaster

		ModifyURLRule with name ModifyURLRule1 was created successfully
		A Boolean to indicate whether changes were made during the tas
changed bool	always	Sample:
		true
	ataChanged when changed	The parameters that were changed during the task.
dataChanged		Sample:
str is true	is true	{"Name": "ModifyURLRule1","Pattern": "^((http [s]? ftl):\\/)\$","Replacement": "username"}
msg str		The error message related to why the task failed.
	when task failed	Sample:
		The minimum supported LoadMaster firmware version is 7.2.47.0

20.5 Status





21 Update Global Parameters

21.1 Synopsis

Module to update global parameters such as black list updates, WAF updates, and non-local Real Server.

21.2 Parameters

Parameter	Choices /Defaults	Comments
central_api_key		The API key for the user of the Kemp 360 Central machine.
str		Central machine.
central_address		The Kemp 360 Central IP address.
str		
central_username		The username of the Kemp 360 Central user.
str		
lm_address		The IP address of the LoadMaster that is
str		attached to Kemp 360 Central.
lm_port		The port of the LoadMaster.
int		
	Choices:	
non-local_rs	• 0: Disabled	Enable non-local Real Servers on the LoadMaster.
IIIC	• 1: Enabled	
	Choices:	
black_list_auto_update	• 0: Disabled	Enable or disable the blacklist auto- update setting.
	• 1: Enabled	
	Choices:	
black_list_auto_install int	• 0: Disabled	Enable or disable the blacklist auto- install setting.
	• 1: Enabled	

21 Update Global Parameters



black_list_install_time int		The hour of the day to install the blacklist updates.
waf_auto_update	Choices:0: Disabled	Enable or disable the WAF auto-update setting.
waf_auto_install	• 1: Enabled Choices:	
int	0: Disabled1: Enabled	Enable or disable the WAF auto-install setting.
waf_install_time int		The hour of the day to install the WAF updates.

21.3 Examples

```
- name: Configure LoadMaster Global Parameters
 hosts: localhost
 vars:
      central address: '10.35.53.5'
      central username: 'Admin'
      central api key: 'apikey'
      lm_address: '10.35.53.6'
      lm port: '443'
 tasks:
      - name: Turn on some global settings
         global params:
               central address: '{{ central address }}'
               central username: '{{ central username }}'
               central api key: '{{ central api key }}'
               lm address: '{{ lm address }}'
               lm port: '{{ lm port }}'
               non local rs: 1
               black list auto update: 1
               black list auto install: 1
               black list install time: 10
               waf auto update: 1
```



21 Update Global Parameters

waf_auto_install: 1
waf install time: 8

21.4 Return Values

The following are the fields unique to this module:

Кеу	Returned	Description
		The message response indicating whether the global data was updated.
message	always	Sample:
str	Successfully updated Global Parameters	
changed		A Boolean to indicate whether changes were made during the task.
changed	always	Sample:
bool	true	
msg when task fa str		The error message relating to why the task failed.
	when task fails	Sample:
		Global setting(s) could not be set,

21.5 Status

22 Appendix





To install Ansible, refer to the Ansible Quick Start Guide at https://docs.ansible.com/ansible/latest/user_guide/quickstart.html.



Last Updated Date

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kemp.ax