

Error Installing Autoware Universe on Ubuntu 20.4 using ROS2 Galactic "Cannot locate rosdep definition..." #3168

✓ Answered by lhakim85 adnanhaf asked this question in Q&A



adnanhaf on Dec 30, 2022

Hello, I get the following error when trying to install Autoware Core/Universe on Ubuntu 20.04 using ROS2 Galactic. Any help in resolving this would be greatly appreciated.

Bash: source /opt/ros/humble/setup.bash

Bash: rosdep install -y --from-paths src --ignore-src --rosdistro
\$ROS_DISTRO

Reference: <https://autowarefoundation.github.io/autoware-documentation/latest/installation/autoware/source-installation/>

Category



Q&A

Labels

None yet

2 participants



Error:

WARNING: ROS_PYTHON_VERSION is unset. Defaulting to 3

ERROR: the following packages/stacks could not have their rosdep keys resolved

to system dependencies:

sample_sensor_kit_launch: Cannot locate rosdep definition for [usb_cam]

osqp_interface: Cannot locate rosdep definition for [rclcpp_components]

scenario_selector: Cannot locate rosdep definition for [tf2_ros]

component_interface_utils: Cannot locate rosdep definition for [rclcpp_components]

system_monitor: Cannot locate rosdep definition for [std_msgs]

tier4_vehicle_rviz_plugin: Cannot locate rosdep definition for [rviz_ogre_vendor]

tier4_sensing_launch: Cannot locate rosdep definition for [ament_lint_auto]

tier4_vehicle_launch: Cannot locate rosdep definition for [xacro]

autoware_utils: Cannot locate rosdep definition for [rclcpp]

compare_map_segmentation: Cannot locate rosdep definition for [sensor_msgs]

map_based_prediction: Cannot locate rosdep definition for [visualization_msgs]

grid_map_filters: Cannot locate rosdep definition for [pluginlib]

component_interface_specs: Cannot locate rosdep definition for [ament_lint_auto]

perception_utils: Cannot locate rosdep definition for [rclcpp]

tamagawa_imu_driver: Cannot locate rosdep definition for [can_msgs]

trajectory_follower: Cannot locate rosdep definition for [tf2_ros]

rtc_manager_rviz_plugin: Cannot locate rosdep definition for [unique_identifier_msgs]

camera_description: Cannot locate rosdep definition for [ament_cmake_auto]

awsim_sensor_kit_launch: Cannot locate rosdep definition for [usb_cam]

automatic_pose_initializer: Cannot locate rosdep definition for [rclcpp]

tier4_simulation_msgs: Cannot locate rosdep definition for [std_msgs]

behavior_path_planner: Cannot locate rosdep definition for [visualization_msgs]

autoware_auto_geometry: Cannot locate rosdep definition for [geometry_msgs]

system_error_monitor: Cannot locate rosdep definition for [std_srvs]

lidar_apollo_instance_segmentation: Cannot locate rosdep definition for [tf2_ros]

bag_time_manager_rviz_plugin: Cannot locate rosdep definition for [rviz_common]

object_merger: Cannot locate rosdep definition for [tf2_ros]

awapi_awiv_adapter: Cannot locate rosdep definition for [tf2_geometry_msgs]

tier4_debug_msgs: Cannot locate rosdep definition for [builtin_interfaces]

geo_pos_conv: Cannot locate rosdep definition for [rclcpp]

mrm_emergency_stop_operator: Cannot locate rosdep definition for [std_srvs]

tier4_auto_msgs_converter: Cannot locate rosdep definition for [ament_lint_auto]

obstacle_stop_planner: Cannot locate rosdep definition for [visualization_msgs]

tensoarrt_common: Cannot locate rosdep definition for [rclcpp]
mission_planner: Cannot locate rosdep definition for [tf2_ros]
imu_description: Cannot locate rosdep definition for [ament_cmake_auto]
heatmap_visualizer: Cannot locate rosdep definition for
[tf2_geometry_msgs]
pacmod_interface: Cannot locate rosdep definition for [std_msgs]
operation_mode_transition_manager: Cannot locate rosdep definition for
[std_srvs]
grid_map_octomap: Cannot locate rosdep definition for [octomap]
tier4_localization_launch: Cannot locate rosdep definition for [topic_tools]
autoware_auto_system_msgs: Cannot locate rosdep definition for
[std_msgs]
simulator_compatibility_test: Cannot locate rosdep definition for [rclpy]
localization_evaluator: Cannot locate rosdep definition for [tf2_ros]
autoware_cmake: Cannot locate rosdep definition for [ament_lint_auto]
tier4_system_launch: Cannot locate rosdep definition for [ament_lint_auto]
autoware_external_api_msgs: Cannot locate rosdep definition for
[rosidl_default_generators]
tier4_debug_tools: Cannot locate rosdep definition for [tf2_ros]
grid_map_rviz_plugin: Cannot locate rosdep definition for [rviz_rendering]
velodyne_description: Cannot locate rosdep definition for [xacro]
tier4_perception_msgs: Cannot locate rosdep definition for
[unique_identifier_msgs]
control_performance_analysis: Cannot locate rosdep definition for [tf2_ros]
ad_api_adaptors: Cannot locate rosdep definition for [rclcpp]
topic_state_monitor: Cannot locate rosdep definition for [tf2_msgs]
twist2accel: Cannot locate rosdep definition for [tf2]
polar_grid: Cannot locate rosdep definition for [rviz_ogre_vendor]
path_distance_calculator: Cannot locate rosdep definition for
[rclcpp_components]
traffic_light_ssd_fine_detector: Cannot locate rosdep definition for
[sensor_msgs]
radar_fusion_to_detected_object: Cannot locate rosdep definition for
[std_msgs]
tier4_traffic_light_rviz_plugin: Cannot locate rosdep definition for
[rviz_common]
ground_segmentation: Cannot locate rosdep definition for [tf2_ros]
costmap_generator: Cannot locate rosdep definition for [tf2_ros]
front_vehicle_velocity_estimator: Cannot locate rosdep definition for
[sensor_msgs]
pointcloud_to_laserscan: Cannot locate rosdep definition for
[visualization_msgs]
autoware_auto_msgs: Cannot locate rosdep definition for
[ament_lint_common]
tier4_planning_launch: Cannot locate rosdep definition for [ament_lint_auto]
common_awsim_sensor_launch: Cannot locate rosdep definition for
[ament_lint_auto]
detected_object_validation: Cannot locate rosdep definition for [tf2_ros]
occupancy_grid_map_outlier_filter: Cannot locate rosdep definition for
[tf2_ros]
map_tf_generator: Cannot locate rosdep definition for [tf2_ros]
grid_map_sdf: Cannot locate rosdep definition for [ament_lint_auto]
multi_object_tracker: Cannot locate rosdep definition for

[unique_identifier_msgs]
lidar_apollo_segmentation_tvm: Cannot locate rosdep definition for [tvm_vendor]
grid_map_pcl: Cannot locate rosdep definition for [rcutils]
pandar_description: Cannot locate rosdep definition for [ament_cmake_auto]
autoware_iv_external_api_adaptor: Cannot locate rosdep definition for [std_srvs]
default_ad_api: Cannot locate rosdep definition for [std_srvs]
tier4_system_msgs: Cannot locate rosdep definition for [std_msgs]
awsim_sensor_kit_description: Cannot locate rosdep definition for [ament_cmake_auto]
tier4_simulator_launch: Cannot locate rosdep definition for [ament_lint_auto]
velodyne_pointcloud: Cannot locate rosdep definition for [image_transport]
vehicle_info_util: Cannot locate rosdep definition for [rclcpp]
rtc_interface: Cannot locate rosdep definition for [unique_identifier_msgs]
livox_description: Cannot locate rosdep definition for [ament_cmake_auto]
signal_processing: Cannot locate rosdep definition for [rclcpp]
lanelet2_extension: Cannot locate rosdep definition for [visualization_msgs]
probabilistic_occupancy_grid_map: Cannot locate rosdep definition for [visualization_msgs]
shape_estimation: Cannot locate rosdep definition for [tf2_geometry_msgs]
lidar_centerpoint: Cannot locate rosdep definition for [tf2_geometry_msgs]
freespace_planner: Cannot locate rosdep definition for [visualization_msgs]
autoware_adapi_version_msgs: Cannot locate rosdep definition for [roslint_default_generators]
tier4_planning_msgs: Cannot locate rosdep definition for [unique_identifier_msgs]
tier4_localization_rviz_plugin: Cannot locate rosdep definition for [rviz_default_plugins]
radar_static_pointcloud_filter: Cannot locate rosdep definition for [tf2_ros]
stop_filter: Cannot locate rosdep definition for [tf2]
tier4_debug_rviz_plugin: Cannot locate rosdep definition for [rviz_rendering]
autoware_planning_msgs: Cannot locate rosdep definition for [unique_identifier_msgs]
kalman_filter: Cannot locate rosdep definition for [ament_lint_auto]
tier4_external_api_msgs: Cannot locate rosdep definition for [geometry_msgs]
pose_initializer: Cannot locate rosdep definition for [tf2_ros]
obstacle_avoidance_planner: Cannot locate rosdep definition for [visualization_msgs]
tier4_datetime_rviz_plugin: Cannot locate rosdep definition for [rviz_common]
initial_pose_button_panel: Cannot locate rosdep definition for [rviz_common]
elevation_map_loader: Cannot locate rosdep definition for [tf2_ros]
route_handler: Cannot locate rosdep definition for [tf2_ros]
kinematic_evaluator: Cannot locate rosdep definition for [tf2_ros]
crosswalk_traffic_light_estimator: Cannot locate rosdep definition for [rclcpp_components]
autoware_auto_mapping_msgs: Cannot locate rosdep definition for [std_msgs]
radar_tracks_msgs_converter: Cannot locate rosdep definition for [tf2_ros]

fake_test_node: Cannot locate rosdep definition for [tf2_ros]
external_cmd_converter: Cannot locate rosdep definition for [std_msgs]
surround_obstacle_checker: Cannot locate rosdep definition for [visualization_msgs]
raw_vehicle_cmd_converter: Cannot locate rosdep definition for [rclcpp_components]
livox_tag_filter: Cannot locate rosdep definition for [sensor_msgs]
vehicle_velocity_converter: Cannot locate rosdep definition for [rclcpp]
ndt_scan_matcher: Cannot locate rosdep definition for [visualization_msgs]
sample_vehicle_description: Cannot locate rosdep definition for [xacro]
tensorrt_yolox: Cannot locate rosdep definition for [sensor_msgs]
lanelet2_map_preprocessor: Cannot locate rosdep definition for [rclcpp]
cuda_utils: Cannot locate rosdep definition for [ament_lint_auto]
autoware_testing: Cannot locate rosdep definition for [ros_testing]
planning_debug_tools: Cannot locate rosdep definition for [rclcpp_components]
rtc_replayer: Cannot locate rosdep definition for [rclcpp_components]
velodyne_msgs: Cannot locate rosdep definition for [std_msgs]
autoware_auto_geometry_msgs: Cannot locate rosdep definition for [std_msgs]
tier4_pcl_extensions: Cannot locate rosdep definition for [ament_lint_auto]
object_range_splitter: Cannot locate rosdep definition for [sensor_msgs]
interpolation: Cannot locate rosdep definition for [ament_lint_auto]
shift_decider: Cannot locate rosdep definition for [rclcpp_components]
autoware_auto_tf2: Cannot locate rosdep definition for [tf2_ros]
grid_map_core: Cannot locate rosdep definition for [ament_lint_auto]
tier4_aware_utils: Cannot locate rosdep definition for [visualization_msgs]
traffic_light_visualization: Cannot locate rosdep definition for [sensor_msgs]
autoware_localization_msgs: Cannot locate rosdep definition for [std_msgs]
grid_map_cv: Cannot locate rosdep definition for [sensor_msgs]
static_centerline_optimizer: Cannot locate rosdep definition for [rclcpp_components]
obstacle_collision_checker: Cannot locate rosdep definition for [tf2_ros]
grid_map_utils: Cannot locate rosdep definition for [ament_lint_auto]
velodyne_driver: Cannot locate rosdep definition for [tf2_ros]
planning_evaluator: Cannot locate rosdep definition for [tf2_ros]
component_state_monitor: Cannot locate rosdep definition for [rclcpp_components]
tier4_state_rviz_plugin: Cannot locate rosdep definition for [rviz_common]
autoware_lint_common: Cannot locate rosdep definition for [ament_cmake_xmllint]
external_velocity_limit_selector: Cannot locate rosdep definition for [rclcpp_components]
autoware_auto_control_msgs: Cannot locate rosdep definition for [std_msgs]
grid_map_ros: Cannot locate rosdep definition for [visualization_msgs]
autoware_auto_common: Cannot locate rosdep definition for [builtin_interfaces]
bluetooth_monitor: Cannot locate rosdep definition for [rclcpp_components]
web_controller: Cannot locate rosdep definition for [std_msgs]
pure_pursuit: Cannot locate rosdep definition for [visualization_msgs]
radar_threshold_filter: Cannot locate rosdep definition for

[rclcpp_components]
tier4_rtc_msgs: Cannot locate rosdep definition for [unique_identifier_msgs]
pose2twist: Cannot locate rosdep definition for [tf2_geometry_msgs]
image_transport_decompressor: Cannot locate rosdep definition for [sensor_msgs]
traffic_light_classifier: Cannot locate rosdep definition for [sensor_msgs]
tier4_control_launch: Cannot locate rosdep definition for [ament_lint_auto]
external_cmd_selector: Cannot locate rosdep definition for [std_msgs]
euclidean_cluster: Cannot locate rosdep definition for [sensor_msgs]
detected_object_feature_remover: Cannot locate rosdep definition for [rclcpp_components]
motion_utils: Cannot locate rosdep definition for [visualization_msgs]
grid_map_msgs: Cannot locate rosdep definition for [rosidl_default_generators]
mrm_comfortable_stop_operator: Cannot locate rosdep definition for [std_srvs]
autoware_sensing_msgs: Cannot locate rosdep definition for [std_msgs]
vehicle_cmd_gate: Cannot locate rosdep definition for [std_srvs]
rtc_auto_mode_manager: Cannot locate rosdep definition for [rclcpp_components]
tier4_control_msgs: Cannot locate rosdep definition for [std_msgs]
morai_msgs: Cannot locate rosdep definition for [builtin_interfaces]
autoware_ad_api_specs: Cannot locate rosdep definition for [ament_lint_auto]
autoware_control_msgs: Cannot locate rosdep definition for [builtin_interfaces]
map_loader: Cannot locate rosdep definition for [visualization_msgs]
vls_description: Cannot locate rosdep definition for [ament_cmake_auto]
tier4_aware_api_launch: Cannot locate rosdep definition for [topic_tools]
grid_map_costmap_2d: Cannot locate rosdep definition for [tf2_geometry_msgs]
accel_brake_map_calibrator: Cannot locate rosdep definition for [visualization_msgs]
tier4_simulated_clock_rviz_plugin: Cannot locate rosdep definition for [rviz_common]
time_utils: Cannot locate rosdep definition for [builtin_interfaces]
tier4_vehicle_msgs: Cannot locate rosdep definition for [std_msgs]
autoware_point_types: Cannot locate rosdep definition for [point_cloud_msg_wrapper]
tier4_screen_capture_rviz_plugin: Cannot locate rosdep definition for [std_srvs]
tensorrt_yolo: Cannot locate rosdep definition for [sensor_msgs]
autoware_map_msgs: Cannot locate rosdep definition for [std_msgs]
tier4_planning_rviz_plugin: Cannot locate rosdep definition for [tf2_ros]
velodyne_monitor: Cannot locate rosdep definition for [std_msgs]
joy_controller: Cannot locate rosdep definition for [std_srvs]
common_sensor_launch: Cannot locate rosdep definition for [ament_lint_auto]
tier4_calibration_rviz_plugin: Cannot locate rosdep definition for [std_msgs]
dummy_perception_publisher: Cannot locate rosdep definition for [unique_identifier_msgs]
obstacle_velocity_limiter: Cannot locate rosdep definition for [visualization_msgs]

dummy_diag_publisher: Cannot locate rosdep definition for [rclcpp_components]

autoware_auto_perception_rviz_plugin: Cannot locate rosdep definition for [rviz_default_plugins]

grid_map_cmake_helpers: Cannot locate rosdep definition for [ament_cmake_core]

tvm_utility: Cannot locate rosdep definition for [tvm_vendor]

steer_offset_estimator: Cannot locate rosdep definition for [std_msgs]

lidar_apollo_segmentation_tvm_nodes: Cannot locate rosdep definition for [sensor_msgs]

tier4_v2x_msgs: Cannot locate rosdep definition for [std_msgs]

motion_velocity_smoother: Cannot locate rosdep definition for [tf2_ros]

dummy_infrastructure: Cannot locate rosdep definition for [rclcpp_components]

grid_map_visualization: Cannot locate rosdep definition for [visualization_msgs]

tier4_hmi_msgs: Cannot locate rosdep definition for [rosidl_default_generators]

ekf_localizer: Cannot locate rosdep definition for [tf2_ros]

grid_map_loader: Cannot locate rosdep definition for [ament_lint_common]

tier4_control_rviz_plugin: Cannot locate rosdep definition for [rviz_ogre_vendor]

sample_vehicle_launch: Cannot locate rosdep definition for [ament_cmake_auto]

imu_corrector: Cannot locate rosdep definition for [tf2_ros]

emergency_handler: Cannot locate rosdep definition for [std_srvs]

autoware_launch: Cannot locate rosdep definition for [rviz2]

grid_map_demos: Cannot locate rosdep definition for [sensor_msgs]

autoware_common_msgs: Cannot locate rosdep definition for [rosidl_default_generators]

mussp: Cannot locate rosdep definition for [ament_cmake_auto]

autoware_iv_internal_api_adaptor: Cannot locate rosdep definition for [std_srvs]

fault_injection: Cannot locate rosdep definition for [rclcpp_components]

individual_params: Cannot locate rosdep definition for [ament_lint_auto]

trtexec_vendor: Cannot locate rosdep definition for [ament_lint_auto]

gyro_odometer: Cannot locate rosdep definition for [tf2_ros]

tier4_api_utils: Cannot locate rosdep definition for [rclcpp]

goal_distance_calculator: Cannot locate rosdep definition for [rclcpp_components]

autoware_auto_perception_msgs: Cannot locate rosdep definition for [unique_identifier_msgs]

image_projection_based_fusion: Cannot locate rosdep definition for [tf2_sensor_msgs]

global_parameter_loader: Cannot locate rosdep definition for [ament_lint_auto]

autoware_adapi_v1_msgs: Cannot locate rosdep definition for [std_msgs]

tier4_perception_rviz_plugin: Cannot locate rosdep definition for [tf2_ros]

tier4_localization_msgs: Cannot locate rosdep definition for [geometry_msgs]

autoware_auto_planning_msgs: Cannot locate rosdep definition for [std_msgs]

behavior_velocity_planner: Cannot locate rosdep definition for

[visualization_msgs]
traffic_light_map_based_detector: Cannot locate rosdep definition for [tf2_ros]
freespace_planning_algorithms: Cannot locate rosdep definition for [tf2_geometry_msgs]
simple_planning_simulator: Cannot locate rosdep definition for [tf2_ros]
tier4_map_launch: Cannot locate rosdep definition for [ament_lint_auto]
gnss_poser: Cannot locate rosdep definition for [tf2_ros]
lidar_centerpoint_tvm: Cannot locate rosdep definition for [tvm_vendor]
lane_departure_checker: Cannot locate rosdep definition for [tf2_ros]
autoware_auto_vehicle_msgs: Cannot locate rosdep definition for [std_msgs]
obstacle_cruise_planner: Cannot locate rosdep definition for [visualization_msgs]
tier4_perception_launch: Cannot locate rosdep definition for [ament_lint_auto]
grid_map: Cannot locate rosdep definition for [ament_cmake]
trajectory_follower_nodes: Cannot locate rosdep definition for [rclcpp_components]
image_diagnostics: Cannot locate rosdep definition for [sensor_msgs]
tier4_api_msgs: Cannot locate rosdep definition for [std_msgs]
pointcloud_preprocessor: Cannot locate rosdep definition for [tf2_ros]
sample_sensor_kit_description: Cannot locate rosdep definition for [ament_cmake_auto]
planning_error_monitor: Cannot locate rosdep definition for [visualization_msgs]
detection_by_tracker: Cannot locate rosdep definition for [tf2_ros]
localization_error_monitor: Cannot locate rosdep definition for [visualization_msgs]

↑ 1

✓ Answered by **lhakim85** on Dec 30, 2022

@adnanhaf ,

If your setup is Ubuntu 20.04 using ROS2 Galactic, please follow galactic version of setup.

then, at the rosdep update,

[View full answer](#) ↓

1 comment · 1 reply

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lhakim85 on Dec 30, 2022

Collaborator

@adnanhaf ,

If your setup is Ubuntu 20.04 using ROS2 Galactic, please follow galactic version of setup.


```
sudo apt-get -y update
sudo apt-get -y install git
```

Note: If you wish to use ROS 2 Galactic on Ubuntu 20.04, refer to installation instruction from [galactic branch](#), but be aware that Galactic version of Autoware might not have latest features.

then, at the rosdep update,
do rosdep update --include-eol-distros, like

[this](#)

✓ Marked as answer

↑ 2

1 reply



adnanhaf on Dec 30, 2022

Author

@lhakim85 Thank you for your suggestion, I apologies, I actually inadvertently typed the wrong URL. I was using the galactic branch for the documentation.

Answer selected by **shmpwk**